2026 MASTER CATALOG



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ES-111

Fundamentals of Electronic Systems and Load Cells

January.....19-23
April.....20-24
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ES-222

Advanced Scale System Troubleshooting

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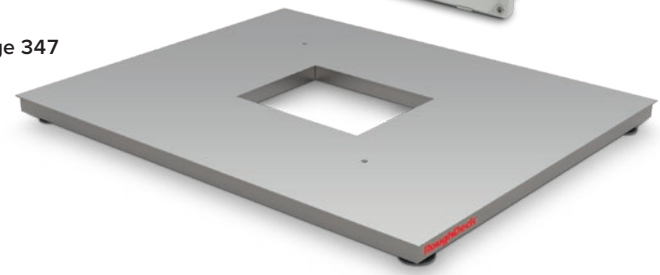
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Shipping Information

FREIGHT SERVICES OFFERED	"SMALL PACK"	LTL	TRUCKLOAD
Nationwide Same-day Service	Y* ***	Y*	N
Next Day (a.m.)	Y**	Y**	Y**
Next Day (END OF DAY)	Y	Y**	Y**
2-day	Y	Y	Y
3-day	Y	Y	Y
Ground	Y	Y	Y
Canada	Y	Y	Y
Mexico	Y	Y	Y
Express Freight (Air-over 150 lb)***	Y	Y	N
International (Sea)	Y	Y	Y
International (Air)	Y	Y	N

** Subject to cost/distance*

*** Subject to distance*

**** Subject to flight availability and proximity of nearest airport*

Same-day Services

These services do not carry the same service guarantees that standard delivery schedules do and are subject to availability.

Small Parcel Services

We ship with internationally recognized parcel carriers based on delivery time and services offered.

Determining Dimensional Weight for Small Parcel Shipments for Air and Ground

When shipping via air services, couriers require the shipping weight be determined by the greater of the boxed product's actual weight or its dimensional shipping weight. The formula for calculating dimensional shipping weight is as follows:

Domestic shipments via ground or air: L x W x H/139.

International air shipments: L x W x H/139.

Please note: Rice Lake Weighing Systems takes the added precaution of double-boxing some of our electronic products and balances. This may result in higher dimensional weight charges by the carrier. Even with this added precaution, we suggest you always ship high precision and fragile products via air services to reduce excessive handling.

Less than Truckload (LTL)

Full service LTL coverage for the continental United States, Puerto Rico, Canada and Mexico.
Note: A standard LTL delivery is considered to be one that ships from either a company or partner dock to arrival at a standard commercial address with disposition of the goods at the rear of the truck. This enables offloading by material handling equipment provided by the consignee at either ground level or via loading dock. The freight in question should be palletized and secured in a way to facilitate the safe handling of the freight with no one dimension over six feet.

Any LTL delivery falling outside of this criteria may accrue accessorial charges levied by the carrier in line with their tariff rules. It is recommended that any potential accessorial costs are discussed at the time of order placement so these costs can be billed appropriately at the time of shipment. If this is not the case, Rice Lake reserves the right to charge the customer retrospectively for any accessorial costs incurred during the delivery process.

Accessorial charges include, but are not limited to the following:

Lift gate, call for appointment and guaranteed delivery: Day and by 10:30 a.m. (where available). Excessive length, inside delivery.
Note: Cross the first threshold only for high-cost delivery areas such as government sites and mines, re-delivery, re-consignment, residential and restricted access shipments. All prices are available on request.

Full Truckload

Various truckload providers give us the ability to ship to the contiguous United States, Alaska, Canada and Mexico.

Forwarders (International Freight)

We can provide service through a forwarder of our choice, or select one of your preferred forwarders.
Air freight: All of our forwarders are internationally recognized brands.
Ocean freight: All of our forwarders are internationally recognized brands.

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Rice Lake Weighing Systems Freight Claims Procedure

Incidents can happen anytime between a package's departure from Rice Lake's loading dock and the time you receive it. For that reason, we are asking you to follow the procedures below when receiving a shipment.

The Bill of Lading (BOL) or Delivery Receipt (D/R) is the only record of the product's condition when it arrives at your site. If you do not inspect a shipment before signing, you are essentially waiving the right to collect on a damage claim regardless of whether the damage is visible or concealed. Your signature on a delivering carrier's BOL or D/R constitutes acceptance of the merchandise "as is." This proof is essential in filing a claim and holding the responsible parties accountable for items damaged or missing while in transit. Remember, once you sign, the goods and responsibility are yours.

Receiving a Shipment

- Check immediately for possible damage during shipment. Inspect, examine and inventory your delivery as it is unloaded.
- Open cartons and containers. Any suspicion of damage or shortage must be noted on the BOL or D/R. This information must include the item, discrepancy and condition of the item in question. If this is NOT noted, the liability to prove the damage was done by the delivering carrier is your responsibility.
- The driver cannot leave your receiving dock until the BOL or D/R is signed, regardless if they are behind schedule or not. Do not be intimidated by the driver.

Damaged Shipment

- Discovered damage: If the box, crate or merchandise is visibly damaged beyond what you would consider to be normal shipping wear and tear, refuse the delivery and request a Return Authorization Number from the driver in order for the shipment to be sent back to its origin at no charge.
- Concealed damage: Immediately document and photograph the damage and packaging. Keep all crating and packaging material with the damaged item(s) for inspection by the company's claim inspector until told to either return or dispose of the item(s). The item(s) should be moved minimally—only to an area where it can be inspected by the carrier or their agent.
- Keep a second copy of the BOL or D/R noting the damage and the driver's signature.
- Call your Rice Lake customer service representative to report the shortage and/or damage. Ideally, the call should be made before the driver leaves the site.

At this point, a claim for concealed damage will be started and an inspection will be requested. The inspector will determine if the damage was possibly caused by the carrier. A report and claim must be filed with the carrier within seven days after delivery. The sooner concealed damage is discovered and reported, the better.

Small Parcel Shipments

In general, it is the policy of small parcel carriers to not deliver damaged packages but rather take them back to the distribution center for evaluation. However, that does not always happen. Occasionally if the package is deemed to be ok, it will be re-taped and delivered to the consignee. If damage is noticed while still at the distribution center, a notation should have been entered into the system.

If you do receive a package that appears to be damaged, you can either refuse as damaged or accept the damaged package and report the damage immediately to your Rice Lake customer service representative with the tracking number. They will, in turn, contact the relevant team member from their support group, so the claims process can be started. **Note: Drivers do not normally note the package was damaged until it is brought back to the distribution center. A clerk will note damage at that point.**

Questions

If you have any questions about shipping or potential damages to your shipment, contact us at 800-472-6703 and a member of our sales and logistics team will assist you.

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Customer Service Contacts

At Rice Lake Weighing Systems, we strive to give you the best customer service in the industry. You can depend on our knowledgeable staff to deliver decisive, courteous assistance when you need it most.

Customer Service Representative Hours (United States Central Standard Time):
Monday through Friday 6:30 a.m. to 6:30 p.m.; Saturday 8:00 a.m. to noon

United States and Canada Field Sales



Jim O'Brien
Northeast Region
715-736-6487



Jon Spencer
Northwest Region
715-434-5370



Tim DeDoncker
Allegheny Region
715-736-6436



Erik Gorski
Great Lakes East
715-736-6482



Tim Campbell
Great Lakes West
715-434-5067



Monte Martinson
Upper Midwest Region
715-736-6466



Jim Gruchalla
Lower Midwest Region
715-434-5084



Gabriel Ruberti
Southeast Region
715-434-5157



Dino Valverde
Mid-Southeast Region
715-434-5069



Toby Mailes
Southwest Region
715-434-5047



Steve Delaney
Mid-Southwest Region
715-434-5293

Europe Field Sales



Alessandro Mattioli
International Sales Director
+39 327 5385748



Luca Prampolini
Italy
+39 344 2528841



Lorenzo Bove
Italy
+39 329 9074995



Orazio Cantone
Italy
+39 351 2413888



Mathieu Favreau
France
+33 0148 734 347



Alessio Balatti
France
+39 344 2528126



Valentin Albertini
France
+33 0673 708 395



Vitaliy Domalchuk
Central Europe
+39 344 2686947



Richard Pouncy
UK/Ireland
+44 (0) 7517 861263



George Cox
UK/Ireland
+44 (0) 7821 122257



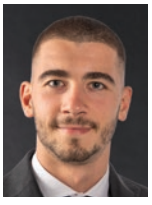
Manuel Gonçalves
Spain/Portugal
+351 937173756



Marco Casolari
Northern Europe/ Balkans
+39 329 649 9997



Jaap Oosterlee
Master Brand, Europe
+31 06 30048248



Riccardo Spezzani
East Europe/Poland
+39 320 3819266

Latin America Field Sales



Manuel Talancon
Director of Latin America Sales and Operations
715-434-5041



Carlos Aguilera
Northern Mexico
+52 81 8356 5062



Daniel Brito
Latin America/ Caribbean
+507 6835 2515



Frank Da Silva
Central/South America
+507 6480 5171



Martin DeVilla
Southern Mexico
+52 81 1516 5938

Middle East/Africa/Asia Field Sales



May Deng
China
+86 21 66314055



Phil Maillols
Oceania
+61 45 144 1755



CW Pang
Southeast Asia
+60 12 201 6262



Rashid Alam
Middle East/Africa
+917 50 4570896

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Customer Service Contacts

Customer Relations



Mark O. Johnson
Chairman



Mark Johnson, Jr.
President



Steve Parkman
Chief Operating Officer



Tom Kowalski
Chief Information Officer



Steve Hersman
Vice President of Global Sales



Dominic Hodkiewicz
Vice President of Manufacturing



Patrick Ranfranz
Vice President of Global Marketing



Glenn Zalusky
Vice President Strategic Business



Tim Donahue
Vice President of Engineering and Innovation



Jon Nelson
Director of Product Management



Guru Ganesh
Managing Director, India



Walter Hendriks
Managing Director, Master Brand, Europe



Massimo Corradini
General Manager Engineering/ Manufacturing Modena, Italy



Enrico Tosi
General Manager Business/HR/Finance Modena, Italy



Kris Lagace
Director of Logistics



Jim Norvid
Director of Mechanical Engineering



Brandi Harder
Quality Manager



Sam Bower
Training Coordinator



Greg Stager
Technical Training Specialist

Inside Sales



Deanna Stanley
Inside Sales Manager



Keven Jensen
Warranty Coordinator



Melissa Hatlan



Sonya Hegle



Owen Korpela



Stacie Lashmett-Stoeberl



Jason Mathews



Gene Marquardt



Shannon Paul



Matt Piazza



Jamie Springer



John Tennant



Casey Sutherland



Lynnette Thompson



Kally Wagner

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Customer Service Contacts

Sales Engineers


Tommy Guest
Director of Customer Support


Sam Brower

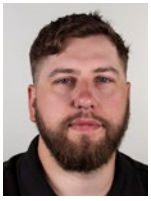

John Eisele


Doug Hagie


Sharon Miller


Efrain Molinari
Habla Español


Preston Reed


Jacob Smith


Marvin Stodola

Health Sales


Staci Wiesner


Nick Marck

Heavy Capacity Sales


Karen Hansen


Stacie Lashmett-Stoeberl


Tony Zillmer

International


Jennifer Krahenbuhl


Gloria Miranda
Habla Español


Bobbie Stiver
Habla Español
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Jon Thurs

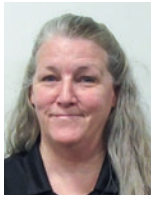
MSI Overhead Weighing

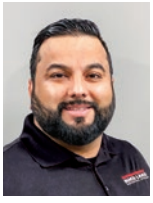

Phil Gray


Bob Davis


Rob Upright


Patrick Hillman


Sue Radowick


David Garcia


Casey Sutherland

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Customer Service Contacts

Technical Support


Tommy Guest
Director of Customer Support


Kolbjorn Ahlberg


Brent Craine


David Dietz


Alan Dobrowolski


Kegan Folds


Jason Gilbertson


Zach Holmstrom


Isaac Holt


Pete Jacobs


Destin Lake


Torey Nelson


Seth Poulter


Scott Ross


Joel Thompson


Mark Ware


Clint Cushing
Retail


Don O'Connell
Retail


Chris Olson
Retail

Repair Department

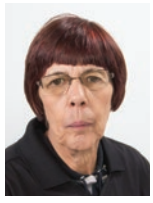

Phil Stoeberl
Electronic Assembly Repair Manager


Randee Bauch


Matthew Daniels


Chad Dobrowolski


Morgan Frisinger


Diane Gagner


Hannah Ince


Tonya Krahenbuhl


Susan Ludwikowski


Tracy Lavaliere


Lisa Maciosek

Financial Services


Wendy Boese
Financial Services Supervisor


Claire Colbert

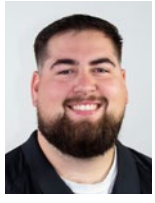

Nicole Dostal


Melissa Olson


Mackenzie Lord


Leanne Madsen


Brianna Nelson


Braxton Seemann

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AstraLink™
AutoCal™
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Bitstream®
Bluetooth®
Cardinal®
Cent-O-Gram®
Centronics®
Citizen®
ConnexLink™
ControlNet®
Conxall®
CRS™
Cubis®
Datalogic QuickScan®
Datamax-O'Neil®
DeviceNet®
Dial-O-Gram™
DIGI®
Discovery™
Dymo®
EPL®
EPL2®
EPSON®
ESC/POS®
EtherCAT®
EtherNet/IP™
Excel™
Explorer®
Fairbanks™
Flintec™
Genius®
Hewlett-Packard™
Howe™
IBM®
InCal™
Intel®
Interchange®
Intercomp CS™
Intercomp PT300DW™
Intercomp PT300™
IONMASTER™
iPAQ™
ISOBAR®
ISOBLOK®
Java™ POS
LabelView™
LifeGuard™
Linux®
LoopTracker™
Lotus™
Maxi-Scoop™
MaxWax™
Microline®
Microsoft®
Midrics®
MIFARE®
Minebea Intec®
Mobile 5.0™
Motiontrap™
Motorola ColdFire®
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Novell®
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pcANYWHERE®
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Pelican™
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Prodigy™
PROFIBUS®
ProPrinter®
Quencharc®
Quickbooks®
QuickScan®
QuikSharp™
R STAHL®
Ranger™
Rapid Exchange®
Rockwell Automation®
Roman and Swiss™
S4M™
Sartorius®
Scout Pro®
SI®
STAR®
The Crosby Group LLC®
SUREFOOT™
Symbol®
TekLynx®
Toledo®
Torque™
TRANSCORE®
Trooper®
Turck®
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Vulcan®
WinCT®
Windows®
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ZPL®

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The terms "buyer," "authorized reseller," and "customer" as used herein, shall mean the party placing the purchase order with Rice Lake Weighing Systems. No contractual relationship between Rice Lake Weighing Systems and said party shall arise until such time as a purchase order has been accepted by Rice Lake Weighing Systems and such acceptance has been indicated on a written acknowledgment. Orders shall be subject to Rice Lake Weighing Systems' standard terms and conditions as printed below, subject to correction for clerical errors.

Any conditions stipulated by the buyer which are in contradiction to these sales terms and conditions shall only be valid if expressively acknowledged by Rice Lake Weighing Systems in writing.

1. Prices

(a) Rice Lake Weighing Systems (Rice Lake) prices are net 30 days Ex Works Rice Lake plants. Orders are subject to approval of our credit department with rights reserved to change or withdraw credit terms without notice and to terminate any orders when invoices for work done thereon have gone unpaid for 60 days.

(b) Prices do not include taxes of any kind by federal, state, municipality or other governmental authority, which Rice Lake may be required to collect or pay with respect to the sale or shipment of goods sold hereunder. Regardless of when any such taxes are determined or become payable, all taxes would be the responsibility of the customer and would be in addition to the prices quoted hereon.

(c) This quotation is made upon the basis of the cost of materials and labor as of the date of this quotation. A change in such costs shall give Rice Lake the right to alter prices to reflect such changes in cost.

(d) Requests for additional documentation, drawings, audits of factories or inspection of equipment in-process, additional testing, additional inspections and record retention will be quoted as a separate item even if we have already issued quotations for products and services.

2. Shipment, Title, Risk of Loss

(a) All shipments are Ex Works point of shipment. Title and risk of loss or damage passes to the customer upon presentation of the goods to the customer's carrier at Rice Lake's facility.

3. Quantity, Materials and Tolerances

(a) Rice Lake assumes no responsibility for loss or damage occurring by reason of delay or inability to deliver caused by fires, strikes, accidents, embargoes, car shortages, delays of carriers, insurrection, riots, acts of the civil or military authorities, nor will we assume responsibility for any reason whatever for damages of any kind on account of failure to deliver at the time specified. The customer shall indemnify and hold Rice Lake harmless from all direct and consequential costs and damages resulting from such loss or delay.

4. Weight Calibration Services

The uncertainty of measurement is included in the decision rule in determining pass/fail criteria of the Maximum Permissible Error (MPE).

5. Patents

If this quotation covers parts made specifically for the customer, the customer agrees to indemnify and hold Rice Lake harmless against any loss resulting from infringement of patents or trademarks, or from claims of such infringements and shall pay all legal and defense costs incurred by Rice Lake in the defense of such actions.

6. Software

Unless specifically otherwise stated, any and all software associated or part of any product sold, loaned on trial or demonstration to the customer is to be considered proprietary to Rice Lake. The customer agrees not to duplicate for distribution or to sell or distribute in any way without the prior written consent of Rice Lake.

7. Changes and Cancellation: Rejection, Claims

(a) Orders placed with Rice Lake are not subject to cancellation, change or reduction in amount or suspension of deliveries except with Rice Lake's consent and upon terms that indemnify Rice Lake against loss. Unless confirmed in writing, all verbal agreements are void.

(b) Rice Lake will not be responsible for changes in design, deliveries or other instructions, unless they are furnished in writing. The customer agrees to pay for all tooling charges caused by changes in design or specifications.

(c) Samples submitted shall be deemed approved unless written rejection is received within two weeks of submission.

(d) Manufactured parts will be shipped and billed as they are produced.

(e) Claims for shortage or rejections for defects must be made within 10 days of receipt of goods. Credit will be rendered on such defective parts after we have had an opportunity to inspect them, provided they are returned to our factory, transportation charges prepaid, within 30 days, and provided they have not been altered or defaced in any way.

8. Tooling and Designing

(a) In consideration of the engineering service necessary in the designing of jigs, fixtures and tooling not being charged for, but being quoted on the basis of labor and material only, and not at their fair market value, such jigs, fixtures and tooling shall remain in our possession for at least one year. Thereafter, the customer desiring delivery of such jigs, fixtures and tooling shall pay an engineering charge of 50 percent of the original price of said jigs, fixtures and tooling and accept same as-is.

(b) When requested, we will submit suggestions concerning design and construction of parts, but we will not accept responsibility of liability for the practicability of these suggestions if adopted by the customer.

9. Delivery and Adjustment to Price

(a) If the customer requests that the goods be manufactured and shipped on a date (or dates) earlier than originally agreed to by Rice Lake and the customer, and Rice Lake agrees to the earlier date (or dates), any increase in the cost of performance incurred by Rice Lake resulting from earlier manufacture and shipment will be included in an adjustment of the purchase price to be made by Rice Lake and will be paid by the customer.

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Terms and Conditions

(b) Should shipments be held beyond scheduled date for convenience of the customer, goods will be billed and charges will be made for warehousing, trucking and other expenses incident to such delay. Reasonable and sufficient care is taken by Rice Lake in crating its goods. Rice Lake cannot be held responsible for breakage after having received "in-good-order" receipts from the transportation carrier. All claim for loss and damage must be made by the customer to the carrier, but we will assist insofar as practical in securing satisfactory adjustment of such claims.

10. Payment and Liens

(a) All invoices shall be due and payable when submitted for payment in accordance with the revisions of Rice Lake terms. No withholding of funds, back charges or credits against amounts otherwise due to Rice Lake will be permitted unless specifically agreed to in writing by Rice Lake. Settlement of any amounts due to the customer will be negotiated as separate items and not as offsets against amounts otherwise due to Rice Lake from the customer for products sold hereunder.

(b) Any unpaid account for work done shall constitute a lien on any jigs, fixtures, manufactured parts and raw materials in Rice Lake possession. In the event any account remains open and unpaid for 90 days, Rice Lake reserves the right to use the customer's jigs and fixtures to make parts therefrom, and to sell or dispose of manufactured parts and raw materials.

(c) The customer shall not assign or transfer any rights or obligations arising from this proposal, or monies payable thereunder, without the prior written consent of Rice Lake, and any such assignment or transfer made without such written consent shall be deemed null and void.

11. Additional Provisions

(a) Errors—stenographic and clerical errors are subject to correction.

(b) These terms and conditions constitute the entire contract between the customer and Rice Lake, transcending any oral arrangements or representations which may be inconsistent therewith.

(c) This quotation is made under and shall be governed by the laws of the state of Wisconsin.

12. Resale of Rice Lake Weighing Systems Products

In order to ensure compliance with the U.S. Export Administration Regulations we ask you to comply with the following:

(a) The customer shall not export or re-export Rice Lake Weighing Systems products, either directly or indirectly, in contravention of any applicable law, statute or regulation and will first obtain any required licenses or authorizations from the relevant government authority when necessary as prescribed by law.

(b) The customer confirms that it is familiar with and complies with the relevant national and international export control regulations and embargo regulations. The customer furthermore confirms that it is in particular familiar with and complies with the U.S. Department of Commerce, Export Administration Regulations; U.S. Department of Treasury, OFAC Sanctions; the U.S. Department of Defense, ITAR requirements and the U.S. Department of State regulations.

(c) If deemed necessary, Rice Lake Weighing Systems, in individual cases may make further requests from the customer for information required for export compliance.

(d) Should it be necessary for the customer to obtain an export license from the appropriate authorities pursuant to the aforementioned regulations, the customer shall apply for such a license autonomously and at their own expense.

13. Sale of Hazardous Area Equipment

It is the responsibility of the reseller to either:

(a) Keep a permanent, traceable record of the equipment location (the end user); or,

(b) Return a completed Rice Lake Hazardous Area Classification Form #1033 signed by the reseller and the end user's hazardous or classified area defining authority. The form must be returned to Rice Lake Weighing Systems for acceptance and permanent record. In the event of an incident, a third party may require that the record be produced. It is the end user's responsibility to maintain compliance with national and local regulations for proper specification, installation, operation and service of this equipment.

The foregoing warranties are exclusive and in lieu of all other express and implied warranties whatsoever, including but not limited to implied warranties of merchantability and fitness for a particular purpose. Rice Lake shall not be subject to any other obligations or liabilities whatsoever with respect to parts manufactured or supplied by Rice Lake or services rendered by it.

Anything herein to the contrary notwithstanding, Rice Lake shall not be liable for incidental and consequential damages, and in substitution for all remedies which the customer may have under any applicable law. The customer's sole and exclusive remedy against Rice Lake for any breach of warranty or any other breach relating to goods delivered pursuant hereto shall be for repair or replacement (at Rice Lake's option) of the goods or parts effected by such breach.

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Warranties

Standard Product Limited Warranty

Rice Lake Weighing Systems (Rice Lake) warrants that all Rice Lake branded equipment and systems properly installed by an authorized reseller or original equipment manufacturer (OEM) will operate per written specifications as confirmed by the authorized reseller/OEM and accepted by Rice Lake. All systems and components are warranted against defects in materials and workmanship for one (1) year from the date of shipment from Rice Lake, unless otherwise stated in the product catalog or manual. Rice Lake warrants that the equipment sold here under will conform to the current written specifications authorized by Rice Lake. Rice Lake warrants the equipment against faulty workmanship and defective materials. If any equipment fails to conform to these warranties, **Rice Lake will, at its option, repair or replace such goods returned within the warranty period subject to the following conditions:**

Upon discovery by the Customer of such nonconformity, Rice Lake will be given prompt written notice with a detailed explanation of the alleged deficiencies.

Individual electronic components returned to Rice Lake for warranty purposes must be packaged to prevent electrostatic discharge (ESD) damage in shipment. Packaging requirements are listed in the publication, "Protecting Your Components From Static Damage in Shipment," available from the Rice Lake Equipment Return Department.

Examination of such equipment by Rice Lake confirms that the non-conformity actually exists, and was not caused by accident, misuse, neglect, alteration, improper installation, improper repair, or improper testing. Rice Lake shall be the sole judge of all alleged non-conformities.

Such equipment has not been modified, altered, or changed by any person other than Rice Lake or its duly authorized repair agents.

Cutting the load cell cable will void the warranty.

Rice Lake will have a reasonable time to repair or replace the defective equipment. The Customer is responsible for shipping the product to Rice Lake. Rice Lake is responsible for shipping the product back to the Customer.

In no event will Rice Lake be responsible for travel time or on-location repairs, including assembly or disassembly of equipment. Nor will Rice Lake be liable for the cost of any repairs made by others.

On all intrinsically safe equipment, any field repair or modifications voids any and all warranties expressed or implied and void F.M. approval.

Any loose hardware, screws, washers or non-ESD bags of hardware stored inside indicator will void warranty. This could cause harm to repair technician or damage CPU board.

If just the board is sent in for repair, the serial number of the product the board is from should accompany the board.

These warranties exclude all other warranties, expressed or implied, including without limitation warranties of merchantability or fitness for a particular purpose. Neither Rice Lake nor the authorized reseller will, in any event, be liable for incidental or consequential damages at the point of use. Rice Lake and the Customer agree that Rice Lake's sole and exclusive liability here under is limited to repair or replacement of such goods. In accepting this warranty, the Customer waives any and all other claims to warranty.

Should the seller be other than Rice Lake, the Customer agrees to look only to the seller for warranty claims. No terms, conditions, understanding, or agreements purporting to modify the terms of this warranty shall have any legal effect unless made in writing and signed by a corporate officer of Rice Lake and the Customer.

Carrier Product Damage

As part of our commitment to customer satisfaction and in accordance with ISO 9001 standards, we make every attempt to pack our products so they will arrive in new condition. Occasionally due to rough handling or carelessness of carrier, product may arrive in a damaged condition. When this happens, don't assume that the shipment left Rice Lake in that condition or that the original packing was not sufficient.

The receiver, whether it is the authorized reseller or their Customer, is responsible for making a notation of damaged or missing items when signing the carrier's delivery receipt. If you or your Customer are not sure whether there is damage, we suggest adding a statement "CONDITION UNKNOWN" to the delivery receipt. In the event that damage or missing items are not properly documented at time of receipt, the carrier is relieved of responsibility and the receiver is then responsible for the cost to get the product back to new condition.

After the damage or shortage has been properly noted with the carrier, contact Rice Lake immediately and keep all the original packaging material for inspection by the carrier's representative. It is also helpful in the claim process to take pictures of the condition of the packaging and damage.

When drop-shipping items to your Customers, it is imperative that you advise them of their responsibility in accepting shipments from common carriers. Even if the equipment is not expected to be installed or used for a period of time, the shipment must be inspected at time of receipt in order to preserve their rights for making a claim.

Custom Software Limited Warranty

Rice Lake Weighing Systems (Rice Lake) warrants that (a) the software will perform in accordance with the specification and accompanying written endorsement by the Customer for a period of 90 days from the date of receipt; (b) any hardware accompanying the software will be free from defects in materials and workmanship under normal use and service for a period of one (1) year from the date of shipment from Rice Lake; and (c) the Customer should perform inspection and testing of software products prior to installation.

This limited warranty is void if failure of the software or hardware has resulted from accident, abuse, misapplication, or incorrect Customer specification. Any replacement software will be

warranted for the remainder of the original warranty period or 30 days, whichever is longer.

If the software fails to conform to these warranties, Rice Lake will, at its option, repair or replace such goods returned within the warranty period subject to the following conditions:

Upon discovery by the Customer of such nonconformity, Rice Lake will be given prompt written notice with a detailed explanation of the alleged deficiencies.

Examination of software by Rice Lake confirms that the nonconformity exists, and was not caused by accident, misuse, neglect, alteration, improper installation, improper repair, improper testing, or incorrect Customer specification. Rice Lake shall be the sole judge of all alleged non-conformities.

Rice Lake will have a reasonable time to repair or replace the software. The Customer is responsible for shipping charges both ways.

In no event will Rice Lake be responsible for travel time or on-location repairs, including assembly or disassembly of equipment. Nor will Rice Lake be liable for the cost of any repairs made by others.

These warranties exclude all other warranties, expressed or implied, including without limitation warranties of merchantability or fitness for a particular purpose. Neither Rice Lake nor the authorized reseller will, in any event, be liable for incidental or consequential damages at the point of use.

Rice Lake and Customer agree that Rice Lake' sole and exclusive liability here under is limited to repair or replacement of such goods. In accepting this warranty, the Customer waives any and all other claims to warranty.

Should the seller be other than Rice Lake, the Customer agrees to look only to the seller for warranty claims.

No terms, conditions, understanding or agreements purporting to modify the terms of this warranty shall have any legal effect unless made in writing and signed by a corporate officer of Rice Lake and the Customer.

Return Policies

Our commitment to our Customers states that if any standard product purchased from Rice Lake does not work, or if the incorrect product is shipped, **return it in its original shipping carton with all accessories in "like new" condition** for full credit or replacement within 30 days of purchase. **Electronic components returned to Rice Lake must be properly packaged to prevent electrostatic discharge (ESD) damage in shipment.** Packaging requirements are listed in the publication, "Protecting Your Components from Static Damage in Shipment," available online or from our Returns Department. This policy and the 30-day limit also apply to any products drop-shipped directly from the manufacturer.

Please note that if an incorrect quantity of product was shipped, Rice Lake must be contacted within 10 days of the purchase. Upon notification, we will immediately correct the situation.

A restocking charge will apply if equipment is not in like-new condition. The restocking charge is directly proportional to the amount of time and material required to return the item to resalable condition—we will make every effort to do this quickly and economically. Equipment that has been abused and/or shows signs of excessive wear and cannot be reconditioned and resold will not be accepted for return or credit after excessive wear or has been modified.

As Applied to Drop Shipments

All Rice Lake return guidelines apply to products drop-shipped directly from the manufacturer. If a perceived error occurs, Rice Lake will investigate to the best of our ability to determine if the error occurred prior to shipping, during shipping, or at the end user site. If our records and subsequent investigation indicate that the shipment was correct when it left our factory, our responsibility extends only to the authorized reseller, not their end user. Our standard product warranty notes that our coverage extends only to equipment and systems **properly installed by an authorized reseller.**

Obtaining an RMA

A return merchandise authorization (RMA) number. is required for all materials being returned to Rice Lake for credit. Flat rate repairs require purchase orders at time of RMA issuance. When returning equipment for repair or warranty reimbursement consideration, these simple steps will help to expedite your request:

1. Contact our Returns Department.
2. Please have your customer number and both the item description and detailed findings of product problem for repair.
3. Please have the original sales order or invoice number for items to be returned for credit or warranty.
   NOTE: See return policy
4. An RMA number will be given for eligible returns. This RMA number may also be faxed or emailed per your request.

Return Shipments Outside the United States for Repair, Warranty, Calibration or Other Services and Re-export.

For shipment to the USA:

1. The commercial invoice must include the following statement:
   i. "These goods are being returned for maintenance under"
   ii. The RMA department will instruct you with the HTS code that you can use to achieve a duty free return. Typically the HTS code to use for articles returned temporarily for repair, alteration, process, and are expected to be reexported get classified as 9801.00.1012
2. The commercial invoice must list items individually and include the fair market value of the item based on its present condition for customs purposes only.
3. Please reference original Rice Lake commercial invoice number and date item was purchased if applicable.
4. Please note that failure to follow these procedures may cause delay and will certainly incur extra charges that will NOT be absorbed by Rice Lake.

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Return Shipments Outside the United States Other Than for Repair, or Service Work Not Being Returned.

For shipment to the USA:

1. The commercial invoice must include the following statement:
   a. "These goods have not been improved in value.
   b. The RMA department will instruct you with the HTS code and country of origin that you can use to achieve a duty free return.
2. The commercial invoice must list items individually and include the fair market value of the item based on its present condition for customs purposes only.
3. Please reference original Rice Lake commercial invoice number and date item was purchased if applicable.
4. Please note that failure to follow these procedures may cause delay and possible reduction in your refund.
5. Please be advised that you may qualify for a refund of your duties and should contact your local customs authority for instructions and forms.

Special Order, Modified, Non-catalog or Non-stock Items

Due to the added resources and difficulty in reselling special or non-standard products, returns or credit are not allowed for special order equipment, special software programs, equipment physically modified or altered in the field, discrete electronic components, relays, manuals, or opened software packages.

Calibration Test Weights

All weights returned for credit will be assessed a restocking charge because of the required inspection and verification. Credit is not allowed for serialized weights, calibration or traceable services performed on weights.

Calibration Test Weights

No returns will be accepted for items that are specifically modified for the Customer's requirements. Examples of such modifications may include but not limited to:

1. Weights that have been specifically built to the customer's specifications.
2. Standard product specifically modified to the customer's specifications.
3. Standard product engraved with serial numbers at the customer's request.
4. Laboratory procedure charges.
5. Laboratory documentation fees.

Balances

Balances returned for credit within 30 days of purchase may be subject to a restocking fee if assessed by balance manufacturer.

Balance Repair Policy and Rates

We offer repair support on the following balance models:

- All Rice Lake brand models. Once we receive the equipment and the RMA form, an estimate will be prepared.

A minimum charge of one hour will apply. All balance repairs are covered by a 90-day limited warranty on parts and workmanship performed and noted under the scope of the specific repair. Balances must be packaged to adequately protect them from damage in transit. Please refer to "How to Prepare a Balance for Shipment" available on our website or call our Returns Department.

How to Prepare a Balance for Shipment

The best and most effective method for shipping a balance at any time and for any reason is to use the original manufacturer's packaging materials and subsequently double box it as described below. Due to the nature of the equipment, new packaging materials can be expensive. It is best to retain the original packing.

In the event that the original manufacturer's packaging materials are not available, follow these instructions for top loading balances:

1. Remove the weighing platform cover, support buttons, weighing platform, floor plate and other devices installed in the weighing chamber. Pack these pieces individually in bubble wrap and tape the wrapping closed. Follow this same procedure for AC adapters and power cords. Please note that AC adapters and power cords are necessary to adequately evaluate any issues with the balance.
2. Examine the device (refer to the operating instructions) and if necessary, re-install or tighten any shipping screws/retaining devices to prevent damage to the weighing mechanism during shipment.
3. If the floor plate is not removable, ensure it is securely in place and cannot come loose during shipment, even if the balance is inverted. Do NOT invert the balance to test the security of the floor plate.
4. Clean the device of any loose debris or potential contaminants to our testing facility.
5. Prepare and sign a Statement of Decontamination (form #0679). This form MUST be included in a separate packing list envelope on the outside of the box with "Statement of Decontamination Form" clearly visible.
6. Using Scotch or aluminum tape, carefully secure all the glass doors on the device CLOSED. Be sure the tape is securely affixed and will not come off during shipment. Please note that on some devices, the glass breeze-break around the weighing chamber can actually be disassembled and packed separate prior to shipment. Refer to the manufacturer's operating instructions. If this is a feature of the device being return, disassemble the breeze break and pack it in its own packing material and box.
7. Use a large box that will provide a minimum of 3 inch of space around the device for loose-fill packing material.
8. Place a padding of foam or Styrofoam (at least 1 in thick) at the bottom of the box.
9. Place the balance in a large plastic bag and seal the bag closed.
10. Please put the device on top of the foam padding or Styrofoam from step 8 above.
11. Ensure that there is at least three inches of clearance between the top of the balance and the top of the box.
12. Using generous amounts of anti-static loose-fill packing material, fill all the spaces around the balance. Shake the box to cause the material to settle and add additional loose fill as necessary.

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Warranty and Limitation of Liability

13. Place the small box containing all the items from step 1 above on top of the loose fill covering the balance. Add additional loose fill to completely cover all items within the box.
14. Double pack this box in another box that will again provide an additional two inches of space around the inner box. Fill all existing space between the inner and outer box with copious amounts of anti-static loose fill packing material.
15. Seal the box and include all the necessary documentation on the outside of the box. Be sure to include the Statement of Decontamination (form #0679) from step 5 above.

Repair Service Policies

Our Service Department is staffed Monday through Friday from 6:30 a.m. to 6:30 p.m., and Saturday from 8:00 a.m. to noon, Central Time. Please call or email Rice Lake at service@ricelake.com for answers to your technical questions and the status of repair products during normal business hours.

We provide quality and timely repairs for the products we sell. Flat rate repair is offered for selected models of indicators, printers and remote displays. Prior to returning a product for repair, our returns department will work with you to determine some key factors that will help Rice Lake better serve you. Please provide the following via phone to extension 5348 or an RMA form.

- Customer Number: Without a customer number we cannot issue an RMA number.
- Ship-to Address: Your customer number will bring up the bill-to address. You must inform Rice Lake of the ship-to address if it's different than the bill-to address.
- **Original sales and invoice orders: Required on warranty claims.**
- Freight Type: Unless stated otherwise, we ship the device back to you utilizing the same freight type in which we received it. If Rice Lake is responsible for freight charges, the carrier will be selected at the sole discretion of Rice Lake.
- **Definition of Product and Problem: Please provide as much detail as possible regarding the type of product, application and problem.**
- Purchase Order Number for Flat Rate Repair: Once we receive the equipment and the RMA, equipment for flat rate repair will be processed immediately. Other equipment will be evaluated and a minimum evaluation charge will apply (contact Rice Lake for exact pricing).

You may be asked about the possibility of a new replacement product. It may be in your best interest to explore the option of purchasing a new product if the repair will exceed 50 percent of authorized reseller net price, since new products carry full-warranty benefits.

Please note our hourly service rate on all current Rice Lake products. Contact Rice Lake for exact pricing. There is a 120-day limited warranty on parts and workmanship performed and noted under the scope of the specific repair.

California Proposition 65

Rice Lake Weighing Systems Statement

Proposition 65 requires businesses to inform Californians about exposures to chemicals that are listed by the State of California as known to cause cancer, birth defects or other reproductive harm. There are over 900 different chemicals listed under Proposition 65 and more chemicals are listed by the State of California each year. These chemicals may be in the products you purchase, or you may be exposed to them at home, at the workplace or within the environment. Proposition 65 enables Californians to make informed purchasing decisions about products that can expose you to these chemicals even in minute or trace amounts. California's Proposition 65 is a California only law.

Rice Lake Weighing Systems provides Proposition 65 warnings on the packaging of the products it sells that may require a warning in an abundance of caution. All of Rice Lake's products are safe for their intended use. We are providing this warning based on the knowledge that one or more chemicals included in the California Proposition 65 list is present in Rice Lake Weighing Systems products even if only in trace or minute amounts. To the extent that customers repackage any Rice Lake products they have sole responsibility for ensuring that the Rice Lake Proposition 65 warning is provided if the repackaged product is sold in California. Any Rice Lake customer who repackages a Rice Lake product but does not include the Rice Lake Proposition 65 warning that is included on the Rice Lake packaging agrees to defend and indemnify Rice Lake by counsel of its choice if a claim is asserted against Rice Lake based on the failure to provide a Proposition 65 warning on the repackaged product. The Rice Lake terms and conditions prevail over any conflicting terms in customer's purchase documentation and customer's order and receipt of Rice Lake Products is deemed acceptance of Rice Lake's terms and conditions. More information about California's Proposition 65 can be found at www.P65Warnings.ca.gov.

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Automated Ticketing

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AUTOMATED TICKETING

Product names, logos, brands and other trademarks featured or referred to within this publication are the property of their respective trademark holders.

1280 Truck Scale Kiosk



PN 225096 shown with options

Standard Features

- 12-inch 1280 color touchscreen
- Stainless steel or mild steel enclosure
- 1,500 NIT display
- Two serial ports RS-232 or RS-485/422
- Operator prompting
- Formattable tickets
- Transmits weight to remote display
- 120 or 220 VAC
- 460 MB onboard database
- Ethernet TCP/IP (wired and Wi-Fi)
- Web server
- Direct thermal printer
- Internal heater
- Slide door access to ticket
- Works with standard 1280 programs, customization available
- One-year warranty

Optional Features

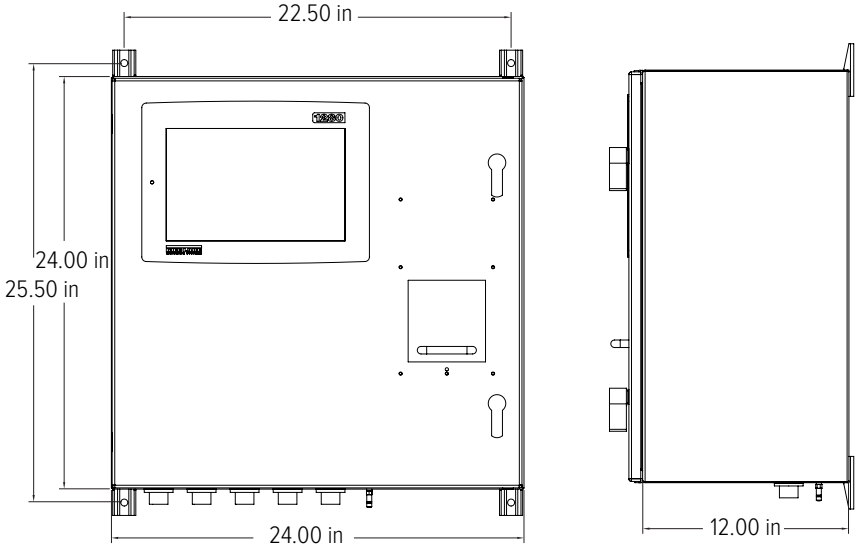
- A/D cards
- RFID reader
- Gate control
- Loop detector input
- QWERTY keyboard
- 12-key keypad
- Credit card reader (US and Canadian currency)
- Stop/Go remote display traffic light control

Part Numbers/Price

Part#	Description	Price
225096	ATS Kiosk,1280 Kiosk TOP 12 inch with 1500 NIT Display, 304 Stainless Steel, Thermal Printer, With Printer Slide Door Access and Basket, Heater 115VAC , No A/D	$13,375.00
199512	ATS Kiosk,1280 Kiosk TOP 12 inch with 1500 NIT Display, Painted MS Enclosure, Thermal Printer, With Printer Slide Door Access and Basket, Heater 115VAC , No A/D	$9,825.00
218355	ATS Kiosk,1280 Inbound 12 inch with 1500 NIT Display, Painted MS Enclosure, NO A/D, 115 VAC	$7,195.00

Options/Accessories

Part #	Description	Price
176452	HID smart card reader	$695.00
119693	200 watt heater	$925.00
196709	Kiosk option, A/D single-channel, includes DIN rail and terminals	$665.00
196710	Kiosk option, A/D dual-channel, includes DIN rail and terminals	$765.00
33490	Relay rack four-channel Opto 22 style with screws	$125.00
21159	Internal transient protection	$245.00



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Shown with optional features

Standard Features

Weigh Out/Printer Kiosk

- 920i® HMI with sun shield
- Six serial ports
- 1 MB database memory
- Two option slots
- Slide door access to ticket
- 8-in paper roll
- Operator prompting
- Formattable tickets
- Transmits weight to remote display
- Stop/Go remote display traffic light control
- Direct thermal kiosk printer
- One-year warranty

Weigh Out/Printer Kiosk Options

- Ethernet TCP/IP (wired and Wi-Fi options available)
- Single or dual channel A/D cards
- RFID reader
- Currency accepter (US currency only)
- Internal heater
- Gate control
- Loop detector output
- Automated traffic light control
- Credit card reader (US and Canadian currency)

Consult for the following options

- Stainless steel enclosure
- 230 VAC

Part Numbers/Price

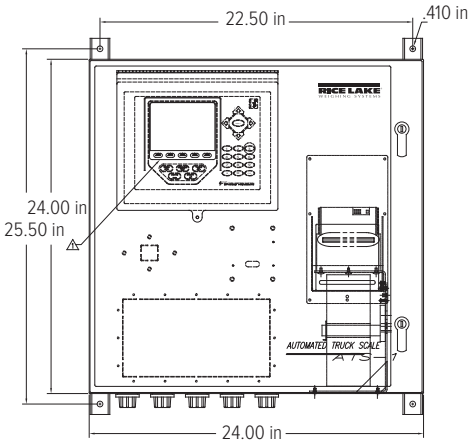
Part #	Description	Price
119687	Weigh out kiosk with 920i® HMI and thermal kiosk printer, 24 × 24 × 12 in painted mild steel enclosure, A/D not included	$6,695.00

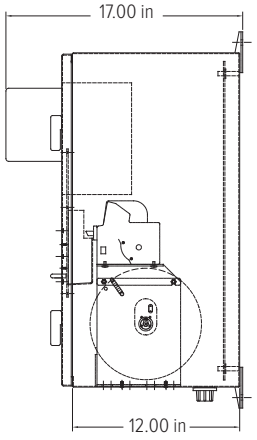
Options/Accessories

Part #	Description	Price
119691	Vandal-proof 12-key keypad	$505.00
176452	HID smart card reader	$695.00
119692	88 key, panel mount Qwerty style keyboard	$875.00
119693	200 watt heater	$925.00
119761	Ethernet unmanaged switch, five port	$315.00
119689	Kiosk option, A/D single-channel, includes DIN rail and terminals	$395.00
119690	Kiosk option, A/D dual-channel, includes DIN rail and terminals	$575.00
33490	Relay rack four-channel Opto 22 style with screws	$125.00
21159	Internal transient protection	$245.00

Replacement Parts

Part #	Description	Price
105445	Paper 6 in OD, one ply thermal 80 mm (3.1 in) 710 ft/roll	$30.00
105446	Paper 8 in OD, one ply thermal 80 mm (3.1 in) 1268 ft/roll	$32.50
54215	3.15 amp 250V Slo Blo 5 x 20 mm kiosk power input fuse	$5.00
160025	Power supply, IDEC 12 V - 30 W	$185.00
88792	Power supply, IDEC 12 VDC - 15 W	$140.00
88793	Power supply, IDEC 24 VDC -30 W	$230.00
72682	Network protection, surge	$80.00
69201	RS-232 protection, TP232	$190.00
181230	Serial kiosk printer kit (includes printer, bracket assembly, power supply and cables)	$1,635.00
191359	Ethernet kiosk printer kit (includes printer, bracket assembly, power supply and cables)	$1,695.00
179762	Direct thermal replacement RS232 printer, kiosk 80 mm DTL	$1,175.00
203720	Direct thermal replacement TCP/IP printer	$1,325.00





Weigh/Check-in Kiosk



Shown with PN 176452

Part Numbers/Price

Part #	Description	Price
153353	Check-in kiosk with 920i HMI, 20 × 20 × 12 in painted mild steel enclosure	$4,315.00

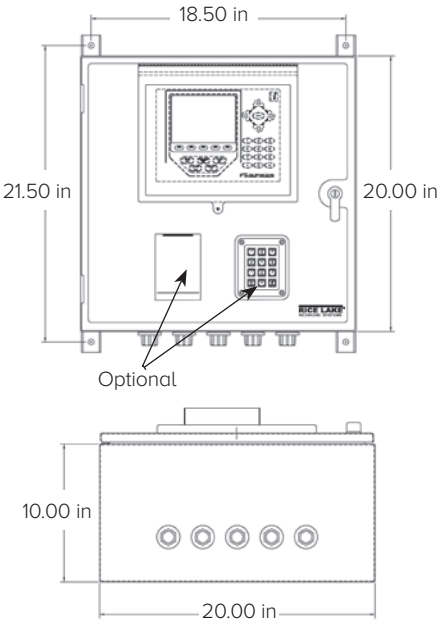
Options/Accessories

Part #	Description	Price
119691	Vandal-proof 12-key keypad	$505.00
176452	HID smart card reader	$695.00
119692	88 key, panel mount Qwerty style keyboard	$875.00
119693	200 watt heater	$925.00
119689	Kiosk option, A/D single-channel, includes DIN rail and terminals	$395.00
119690	Kiosk option, A/D dual-channel, includes DIN rail and terminals	$575.00

Standard Features

Weigh/Check-in Kiosk

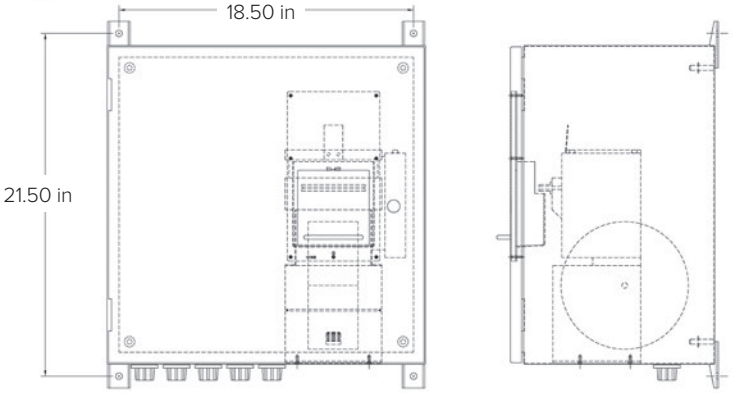
- 920i® HMI with sun shield
- Four serial ports
- 120 VAC
- Two option slots for 920i option cards
- One-year warranty



Printer Kiosk



PN 112836



Standard Features

Direct Thermal Printer Kiosk

- Custom America VKP80II receipt printer
- Slide door access to ticket
- 8-in paper roll
- 1 year warranty

Specifications

Line Voltages:
115 or 230 VAC

Frequency:
50/60 Hz

Power Consumption:
0.5 amps (depending on options)

Fusing:
3.15 amps circuit breaker

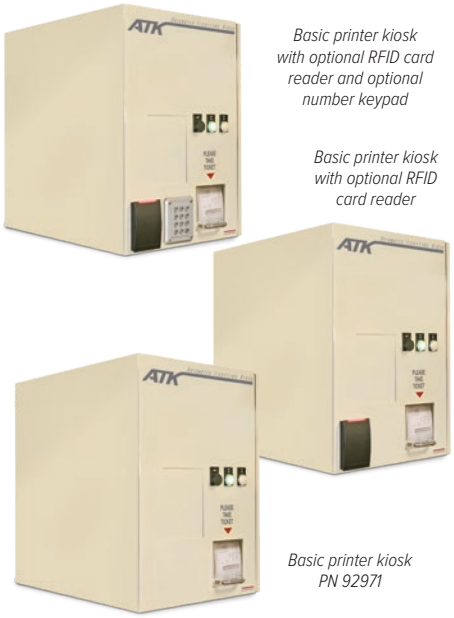
Printer Communication Ports:
RS-232 or Ethernet

Temperature:
Storage:
14 °F to 158 °F (-10 °C to 70 °C)

Humidity:
0 to 95% relative humidity

Warranty:
One-year limited

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Basic printer kiosk with optional RFID card reader and optional number keypad

Basic printer kiosk with optional RFID card reader

Basic printer kiosk PN 92971

Standard Features

Printer Kiosk

- Painted mild steel enclosure
- Slide door access to ticket
- Zinc-plated 3/4-inch NPT conduit hubs
- Custom America VKP80III direct thermal printer

Thermal-transfer Printer Kiosk

- Painted mild steel enclosure
- Slide door access to ticket
- Zinc-plated 3/4-inch NPT conduit hubs
- Additional options available upon request

Note: Printer, thermal transfer ribbon and card stock sold separately

Specifications

Line Voltages:
115 or 230 VAC

Frequency:
50/60 Hz

Power Consumption:
0.5 amps (depending on options)

Fusing:
6 amp circuit breaker

Printer Communication Ports:
RS-232
Ethernet (optional)

Temperature:
Storage:
14 °F to 158 °F (-10 °C to 70 °C)

Humidity:
0 to 95% relative humidity

Current Supported Riser Plates:
Zebra® 140XiIIIPlus
Zebra 105SL
Zebra R110Xi
Zebra Z4Mplus
Zebra 2746e
Honeywell 4206
Honeywell I-4212
Intermec/Honeywell 3400e
Intermec/Honeywell 4440

Warranty:
One-year limited

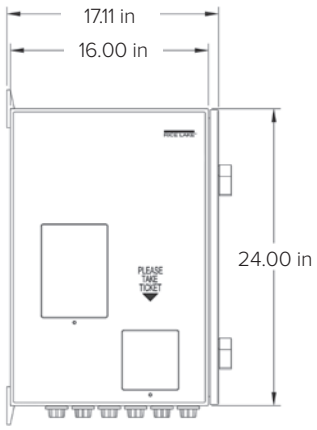
Part Numbers/Price

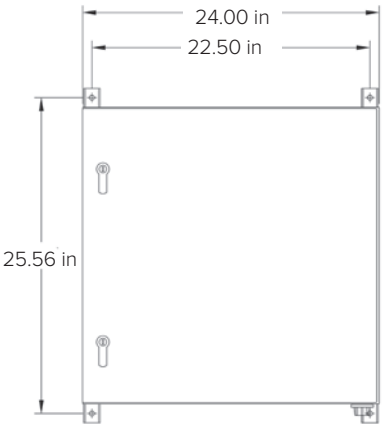
Part #	Description	Price
92971	Printer kiosk, inbound base unit 115 VAC (printer not included)	$3,355.00
112836	Printer kiosk, thermal ticket printer 20 × 20 × 12 in painted mild steel enclosure	$4,195.00
193639	Printer kiosk, thermal ticket printer (Ethernet), 20 × 20 × 12 in painted mild steel enclosure	$4,355.00

A test plan is included with each kiosk.

Options/Accessories

Part #	Description	Price
119693	200 watt heater	$925.00
119946	Single port Ethernet server	$485.00
120040	Dual port Ethernet server	$675.00
93463	Printer riser plate for Honeywell I-4212e	$315.00
93468	Printer riser plate for Intermec/Honeywell 3400e	$315.00
176452	HID smart card reader	$695.00
131143	Honeywell I-4212e, direct thermal RS-232, parallel and USB	$1,595.00
64884	Thermal transfer option Honeywell	$133.00
131150	Ethernet option Honeywell	$365.00
109298	Tag, direct thermal, 4 in wide, 7.2 pt continuous 480 ft roll	$51.00
179762	Direct thermal replacement RS232 printer, kiosk 80 mm DTL	$1,175.00
203720	Direct thermal replacement TCP/IP printer	$1,325.00
Consumables		
105445	Paper roll 6 in OD, one ply thermal 80 mm (3.1 in) 710 ft per roll	$30.00
105446	Paper roll 8 in OD, one ply thermal 80 mm (3.1 in) 1268 ft per roll	$32.50
89190	Thermal transfer tag stock 4 in wide, 7.5 pt continuous 400 ft roll	$46.25
34056	Transfer ribbon, 4 in wide GPR Plus black 1181 ft roll	$30.50





AUTOMATED TICKETING

Intercom Kiosk



Part Number/Price

Part#	Description	Price
215451	Ethernet intercom	$2,625.00

Standard Features

- Moisture and puncture resistant speaker
- Three-layer steel baffle protects speaker from tampering
- Hands-free communication
- Weather and vandal resistant
- FRP enclosure

Specifications

Wiring:
CAT5 to Ethernet adapter

Dimensions:
(L × W × H)
14 × 12 × 8 in
(355 x 304 x 203 mm)

Communication:
PC software functions as base station for networked intercom system

TalkMaster™ FOCUS, download directly from www.digitalacoustics.com/talkmaster-focus-software-download/

Network Cameras



License Plate Recognition



Remote Monitoring

Remote Monitoring Specifications

Read Range:
10 to 82 ft (3 to 25 m)

Interface:
10 Base-T/100 Base TX Ethernet (RJ-45)

Operating System:
Microsoft Windows® 10/8/7

Web Browser:
Chrome 58 or above, Internet Explorer 10/11

Power Input:
IEEE 802.3af PoE Class 0 (Power Redundancy)

Power Consumption:
PoE: Max. 10.77/7.77 W (IR on/off)

Night Illumination Range:
164 to 328 ft (50 to 100 m) with Smart IR II

Dimensions:
5.75 × 11.34 in (146 × 288 mm)

Temperature:
Operating:
IR off: -40 °F to 140 °F (-40 °C to 60 °C)
IR on: -40 °F to 122 °F (-40 °C to 50 °C)

Weight (including bracket):
3.5 lb (1.6 kg)

Rating:
IP66

Approvals:
CE
BIS
FCC Class A

License Plate Recognition Specifications

Read Range:
10 to 82 ft (3 to 25 m)

Image Sensor:
2 megapixels
1/2.8 in CMOS sensor

Frame Rate:
25 FPS

Interface:
LAN (weatherproof standard RJ-45)
10/100 Mbps
Ethernet interface Wi-Fi (for easy setup)
Relay control (1 input, 2 outputs)
Wiegand

Power Input/Network:
24 to 48 V DC, PoE+ IEEE 802.3 at
Requires CAT 5e or better network, POE+ network switch or 24 to 48 VDC power supply

Power Consumption:
Average 18 W, max 25 W

Dimensions:
4.0 × 7.0 × 11.5 in
(102 × 180 × 290 mm)

Weight:
6.5 lb (2.95 kg)

Rating:
IP66

Temperature:
Operating:
-40 °F to 140 °F (-40 °C to +60 °C)

Humidity:
0% to 95% RH

Approvals:
IEC 62368-1, Electrical Safety General
IEC 60950-22, Electrical Safety Outdoor
IEC 62471, Photobiological
EN 55022:2010, Emissions
EN 55024:2010, Immunity
IEC 60068-2-27 Ea, Shock
IEC 60068-2-64 Fh, Vibration
UL94 HB, Flammability
RoHS directive 2002/95/EC and RoHS2 directive 2011/65/EU

Part Number/Price

Part #	Description	Price
Remote Monitoring Camera		
163175	Ethernet camera 2-megapixel CMOS sensor	$1,500.00
131605	Power supply, POE injector, power cord not included	$205.00
15438	Power cord	$35.00
License Plate Recognition Camera		
220688	Camera, LPR License Plate Recognition, requires CAT 5e or better network, POE+ network switch or 24-48VDC power supply.	$8,045.00
220690	Mounting bracket, LPR Camera. Universal mounting bracket for license plate recognition camera.	$245.00
220691	Cable power & relay LPR camera power cable	$125.00

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PN 221451



PN 119761



PN 197373



PN 65383



PN 120041

Part Number/Price

Part#	Description	Price
221451	Ethernet Serial Server Dual serial port (2-9 pin connectors)1 Ethernet 10/100 (RJ45) DIN rail mounting. (2x5 pin terminal blocks for RS422/485 only)	$875.00
197373	Ethernet serial server four serial port (DB-9) one Ethernet 10/100 (RJ45) DIN rail mounting	$1,000.00
119761	Ethernet Unmanaged Switch Requires 12 To 36 VDC ESW105, Industrial 5 port, UL E180881	$315.00
65383	Converter, Ethernet Thin Server UDS-1100, 10/100 RJ45 232 to Ethernet	$397.00
120041	Converter, Ethernet Thin Server UDS2100, 10/100 RJ45 232 to Ethernet Dual Serial Ports. Includes Power Transformer	$495.00

Specifications PN 119761

Power:
12 to 48 VDC, 2.88 watts maximum

Serial Connectors:
5 × RJ45, 6-pin removable screw terminal (power)

Communication Ports:
Ethernet 10/100 Base-T

Temperature:
Operating:
50 °F to 140 °F (10 °C to 60 °C)

Humidity:
10% to 95%

Installation/Style:
DIN rail mounting

Specifications PN 65385 and PN 120041

Power:
9 to 30 VDC, 1.8 Watts maximum, wall adapter included

Serial Interface:
RS-232, RS-422 or RS-485

Serial Connectors:
(UDS 1100) 1 × DM25F,
(UDS 2200) 2 × DB9M

Communication Ports:
Ethernet 10/100 Base-T, 1 × RJ-45 connector

Temperature:
Operating:
32 °F to 140 °F (0 °C to 60 °C)

Humidity:
10% to 90%

Installation/Style:
Desktop or panel use

Specifications PN 221451 and PN 197373

Power:
12 to 48 VDC, 4.1 watts maximum

Serial Interface:
RS232, RS422 or RS485 software selectable

Serial Connectors:
DB9, EKI-1524 also include terminal block

Communication Ports:
Ethernet 10/100Base-T, 1 × RJ45 connector

Temperature:
Operating:
14 °F to 140 °F (10 °C to 60 °C)

Humidity:
10% to 95%

Installation/Style:
DIN rail mounting

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Remote HID Box



Standard Features

- Self-contained HID reader with Weigand to RS-232 converter with power supply
- Indoor/outdoor
- Use with 920i®, 1280 indicators and kiosk systems
- Requires special programming

Specifications

Power Supply:
120 VAC input at 10 W, 5 VDC Output 2 at amp

Read Range*:
2.5 to 4.5 in (6.3 to 11.4 cm) with HID iCLASS® card
1.0 in (2.5 cm) with HID iCLASS key
1.0 in (2.5 cm) with HID iCLASS tag
1.5 to 2.0 in (3.8 to 5.0 cm) with HID iCLASS prox
1 to 2 in (2.5 to 5.0 cm) with MIFARE® card (serial number only)

**Using ISO 15693 mode (except MIFARE®). Dependent upon installation conditions. Please note that all iCLASS credentials are available in either a 2 K bits (256 Bytes) or 16Kbits (2 KBytes) configuration.*

Transmit Frequency:
13.56 MHz

Cable Distance:
RS-232-C 50 ft

Specifications Continued

Current Requirements (Avg/Peak):
80/260 mA at 12 VDC

Material:
FRP

Dimensions:
(L × W × H)
10.50 × 8.91 × 6.25 in
(267 × 226 × 159 mm)

Temperature:
Operating: -31 °F to 150 °F (-35 °C to 65 °C)

Humidity:
5 to 95% RH (non-condensing)

Weight:
8.8 oz (249.5 g)

Pending Certifications:
Taiwan, Singapore, Germany VdS

Approvals Power Supply:
CE Marked
TUV
UL61010/cUL
CSA C22.2 o. 107.1
UL1604: Class I Div 2
EN 50175
LVD: EN662368
EMC: Directive EN61204-3
EMI: Class B, EMS Industrial

Pending Approvals HID:
Taiwan, Singapore, Germany VdS

Approvals HID:
UL 294/cUL
FCC Certification
Canada Certification
CE Mark (Europe)
New Zealand
Australia c-Tick

Part Number/Price

Part #	Description	Price
220144	HID Box, remote	$2,545.00

HID Long Range Readers



Standard Features

- Discreet hands-free authentication solution for long range parking, gate control and truck identification
- IP65 rating allows outdoor mounting
- Supports Wiegand standards
- Requires Wiegand converter, consult with a sales engineer with application specifics

Specifications

Read Range:
9.8 to 16.4 ft (3 to 5 m)

Color:
Black

Mounting:
Drill mounting box to meet application
Drill points provided for US and EU wall boxes, and 75 mm, 100 mm and 200 mm VESA mounts

Transmit Frequency:
865 to 868 MHz/902 to 928 MHz dependent on regional regulations

Dimensions:
(L × W × H)
9.10 × 9.10 × 2.75 in
(231 × 231 × 70 mm)

Rating/Material:
IP65
UL94 Polycarbonate

Temperature:
Storage:
-67 °F to 185 °F (-55 °C to 85 °C)
Operating:
-30 °F to 150 °F (-35 °C to 65 °C)

Humidity:
5% to 95% RH non -con densing

Approvals:
UL 294/cUL, CB Scheme
FCC Certification
IC (Canada)
CE (Europe)
IFETEL (Mexico)

Part Number/Price

Part #	Description	Price
184458	Reader, Long Range HID iClass SE U90, use 184459 HID cards. UHF Reader 902-928 MHz	$1,995.00
184459	UHF Credentials SIO Enabled UHF long range card, for use with 184458. HID 600TGGAN	$15.00
184466	Windshield mount	$10.50
220769	Converter, Weigand/RS232 FRP enclosure, includes: Weigand to RS232 converter, 5 VDC and 24 VDC power supply, terminals for field wiring.	$1,025.00
225411	Mount, for use only when mounting with kiosk pole and swing-arm	Consult
226003	Kit, wallmount bracket	Consult

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Standard Features

TransCore® SmartPass® RFID Reader

- Fully self-contained, integrated reader
- Ideal for truck scales, and parking and access control applications
- 915 MHz RF band operation
- Compatibility with a wide range of industry-standard formats
- Weatherproof enclosure
- Quick, simple installation by trained, authorized personnel
- Programmable RF power
- Compatible with a variety of RFID tag options including half and full frame RFID tags (beam or battery powered) as well as windshield RFID tag options (beam or battery powered)

Specifications

Input Power:
16 to 20 VAC, 47 to 63 Hz, or 16 to 28 V DC

Vibration:
0.5 grams, 10 to 500 Hz

Frequency Range:
902 to 928 MHz

RF Control:
By sense output or host command

Polarization:
Linear, horizontal

Read Range:
Read performance varies depending on tag and reader configuration and environment
Read range for all the SmartPass E4 Reader is 12 ft (3.7 m) typical to 17 ft (3.7 m) maximum

I/O Control:
Input: Two independent dry contact closures for sense circuits
Output: Two independent Form-C contacts

Mounting Surface:
Mount to pole or wall, indoor or outdoor

Enclosure:
Tamper-proof, polycarbonate housing

Temperature:
Operating:
-40 °F to 131 °F (-40 °C to 55 °C)

Humidity:
100% condensing

Dimensions:
(L × D × W)
15.5 × 15.5 × 3.25 in
(393 × 393 × 83 mm)

Weight:
9.5 lb (4.3 kg)

Part Number/Price

Part #	Description	Price
108201	SmartPass E4 reader only	$6,725.00
162431	18 VAC power supply	$47.00
86401	5 ft interface cable	$165.00
162430	20 ft interface cable	$330.00
86403	35 ft interface cable	$490.00
162432	Pole/wall mount bracket	$145.00

Multiprotocol Rail Reader and Parapanel Antenna



Standard Features Multiprotocol Rail Reader

- Designed for railroad applications
- Fixed mount, integrated package (reader and RF module)
- Reads Association of American Railroads (AAR) format tags and SuereGo® (SeGO) protocol tags
- Supports tag and mutual authentication
- 902 to 928 MHz RF range operation in North America
- Real-time clock
- Tag read buffering
- Programmable RF output power
- Programmable frequency
- Supports up to two AT5720 Check Tags
- Multiplexes up to four antennas

Parapanel Antenna Standard Features

- Asymmetrical broadcast pattern
- Low-profile design
- Weatherproof enclosure
- UV-tolerant and corrosion-resistant construction

Part Number/Price

Part #	Description	Price
Consult	Please consult sales engineer to ensure proper system for application	Consult

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RFID Access Tags



PN 157184



PN 157185

Standard Features

RFID Access Tags

- Interior mounting on non-metallized windshield
- Impact resistant, molded plastic case
- Slim profile
- Non-battery for extended service life (AT5402)
- Dual-frequency (915 and 2450 MHz, AT5406)

Specifications

Power Source:
AT5402: Beam-powered
AT5406: Lithium battery

Frequency Range:
AT5402: 902 to 928 MHz
AT5406: 902 to 928 MHz/2425 to 2475 MHz

Read Range:
AT5402: 5 to 10 ft (1.5 to 3 m)
AT5406: 5 to 35 ft (1.5 to 11 m)

Polarization:
Parallel with longer side

Data Capacity:
Up to 10 alphanumeric characters (60 available bits) or Wiegand 26 to 54 bit formats

Service Life:
AT5402: >10 years
AT5406: Eight-year lithium battery (typical life)

Case Material:
Weatherproof, polycarbonate alloy, UV stabilized

Mounting Surface:
Interior: Non-metallic windshield

Mounting Method:
Semi-permanent mounting: Double-sided tape
Removable mounting: Adhesive-backed hook-and-loop material attached to the tag and vehicle windshield

Temperature:
Operating:
-40 °F to 185 °F (-40 °C to 85 °C)

Dimensions:
(L × W × H)
AT5402: 3.60 × 2.30 × 0.27 in
(92 × 59 × 7 mm)
AT5406: 4.50 × 2.50 × 0.70 in
(114 × 64 × 18 mm)

Weight:
AT5402: 1.4 oz. (40 g)
AT5406: 3.5 oz. (99 g)

Part Number/Price

Part #	Description	Price
157184	AT5402 windshield tag beam power	$42.00
157185	AT5406 windshield tag with battery	$58.00
159518	Programming fee	$310.00

Note: Programming fee applies if ordering fewer than 100 tags

RFID Transportation Tags



Standard Features

RFID Transportation Tags

- Harsh environment durability
- Factory sealed case
- Non-battery for extended service life (AT5412)
- Dual-frequency (915 and 2450 MHz, AT5414)

Specifications

Power Source:
AT5412: Beam
AT5414: Lithium battery for a typical eight-year life

Frequency Range:
AT5412: 902 to 928 MHz
AT5414: 902 to 928 MHz/2425 to 2475 MHz

Read Range:
AT5412: 5 to 10 ft (1.5 to 3 m)
AT5414: 5 to 35 ft (1.5 to 11 m)

Polarization:
Parallel with longer side

Data Memory Capacity:
SeGo and eGo Modes: 2048 bits
ATA Mode: 60 bits

Case Material:
Weatherproof, polycarbonate, UV-stabilized case that is sealed after programming

Mounting Surface:
Any smooth metallic surface

Mounting Method:
Mount to any flat smooth metal surface using bolts, screws or blind rivets

Dimensions:
(L × W × H)
AT5412: 9.30 × 2.38 × 0.69 in
(236 × 60 × 18 mm)
AT5414: 9.32 × 2.39 × 0.75 in
(237 × 61 × 19 mm)

Temperature:
Operating:
-40 °F to 185 °F (-40 °C to 85 °C)

Weight:
AT5412: 5.3 oz (150.2 g)
AT5414: 6.6 oz (187 g)

Part Number/Price

Part #	Description	Price
86399	AT5412 transportation tag 1/2 frame beam power	$63.00
157188	AT5414 transportation tag 1/2 frame with battery	$79.00
159518	RFID programming fee	$310.00

Note: Programming fee applies if ordering less than 100 tags

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HID RFID Cards



Standard Features

HID RFID Cards

- Offer sufficient read/write memory to store multiple biometric templates
- Available in a 2 or 16 application area configuration
- Offer multiple, securely separated areas to enable numerous applications, including the HID standard access control application
- Future growth for new read/write applications
- ISO 15693 and 14443B2 standards for read/write contactless communication
- Cost-effective way to enhance the security of your access control installation
- Close range

HID RFID Readers



Standard Features

HID RFID Readers

- More powerful and versatile access control
- User-friendly proximity technology
- Uses the 13.56 MHz technology platform
- High-intensity, three-color light bar provides clear, visual feedback, even in direct sunlight
- Selectable, distinct tone sequences indicate status conditions
- All RF data transmission between the card and reader is encrypted using a secure algorithm
- Close range

Part Number/Price

Part #	Description	Price
176452	HID smart card reader, includes Wiegand to RS232 converter and mounting hardware	$695.00
88792	Power supply, IDEC 12 VDC output, 85 VAC input, required for 176452 above	$140.00
85902	iClass Smart Card pack 1 to 25 13.56 MHz	$255.00
85903	iClass Smart Card pack 26 to 50 13.56 MHz	$255.00
85904	iClass Smart Card pack 51 to 75 13.56 MHz	$255.00
85905	iClass Smart Card pack 76 to 100 13.56 MHz	$255.00
95358	Card, HID unprogrammed configured 256 byte no slot punch - MUST BE FACTORY PROGRAMMED	$15.00
212168	Card, HID unprogrammed configured 256 byte vertical slot	$15.00

Keyfob and disc tags optional—consult for price.



HID card (PN 212168)

Specifications

Power Supply:
10 to 16 VDC reverse voltage protected
Linear supply recomm ended

Read Range*:
2.5 to 4.5 in (6.3 to 11.4 cm) with HID iCLASS® card
1.0 in (2.5 cm) with HID iCLASS key
1.0 in (2.5 cm) with HID iCLASS tag
1.5 to 2.0 in (3.8 to 5.0 cm) with HID iCLASS prox
1 to 2 in (2.5 to 5.0 cm) with MIFARE® card (serial number only)

**Using ISO 15693 mode (except MIFARE®). Dependent upon installation conditions. Please note that all iCLASS credentials are available in either a 2K bits (256 Bytes) or 16Kbits (2 KBytes) configuration.*

Transmit Frequency:
13.56 MHz

Current Requirements (Avg/Peak):
80/260 mA at 12 VDC

Material:
UL94 polycarbonate

Cable Distance:
Wiegand interface: 500 ft (150 m)
Recommended cable is ALPHA 1295 (22AWG) Five-conductor stranded with overall shield or equivalent. Additional conductors may be required to connect all outputs.

Dimensions:
(L × W × H)
3.30 × 0.85 × 4.80 in
(84 × 22 × 122 mm)

Temperature:
Operating: -31 °F to 150 °F (-35 °C to 65 °C)

Humidity:
5 to 95% RH non-condensing

Weight:
8.8 oz (249.5 g)

Pending Certifications:
Taiwan, Singapore, Germany VdS

Approvals:
UL 294/cUL
FCC Certification
Canada Certification
CE Mark (Europe)
New Zealand
Australia c-Tick

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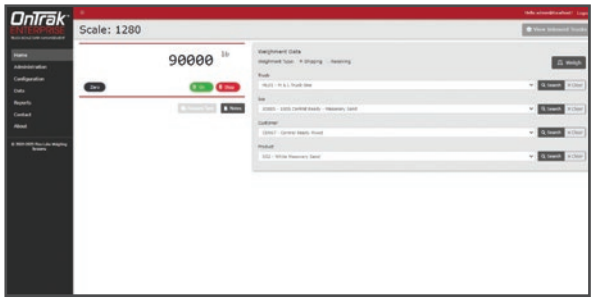
OnTrak® Enterprise

Truck Scale Data Management Software

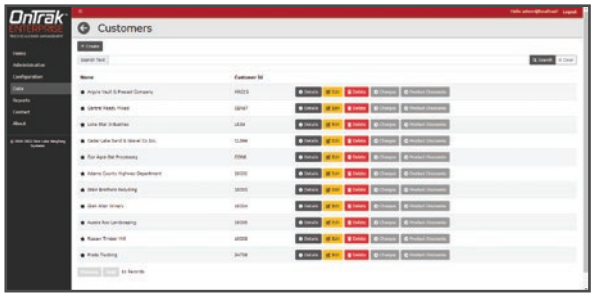
AUTOMATED TICKETING

OnTrak® ENTERPRISE

TRUCK SCALE DATA MANAGEMENT



Weigh Screen



Customer Screen Main

Approvals

Part Numbers/Price

Part #	Description	Price
218502	OnTrak Enterprise Base Software	$3,495.00
Modules		
218503	License, Kiosk Module OnTrak Enterprise	$795.00
218504	License, API Module OnTrak Enterprise	$695.00
218505	License, Image Capture Module OnTrak Enterprise	$695.00
218506	License, LPR Module OnTrak Enterprise, License Plate Recognition	$595.00
231018	License, OnTrak Enterprise, Cloud Data Warehousing	$295.00
Annual Maintenance Agreements (AMA)		
218507	OnTrak Enterprise AMA for Base Software	$699.00
218508	OnTrak Enterprise AMA for Kiosk Module	$159.00
218509	OnTrak Enterprise AMA for API Module	$139.00
218510	OnTrak Enterprise AMA for Image Capture Module	$119.00
218511	OnTrak Enterprise AMA for LPR Module	$119.00
231017	OnTrak Enterprise AMA for Cloud Data Warehousing	$79.00

Note: Annual Maintenance Agreements (AMA) are required. Billable after year two.

Options/Accessories

Part #	Description	Price
Consult	Non-Rice Lake indicator interface	$295.00
Consult	Custom reports	$255.00/hour
104789	Phone support, one hour	$145.00

Standard Features

- Comprehensive transaction management
- Unlimited charge and discount amounts per product
- Calculates tax
- Ship or Receive mode for each transaction
- Assign one of four security levels to each user
- Exclusive databases for customer, hauler, truck, product, job, price/discount, tax and transaction
- Filter reports to view relevant information
- Customizable generated tickets
- Back up and restore through the included utility, or via SQL Server Management Studio available through Microsoft
- Software supports unlimited number of scales, number of scales supported is dependent on user's hardware
- Webserver for on-premises access through the local area network, systems integration and data monitoring
- A supported web browser (Google® Chrome®, Microsoft® Edge®, Mozilla® Firefox® or Apple® Safari®)

Optional Features

- 1280 kiosk interface
- REST API
- Image capturing*
- License plate recognition*
- Automated 'real-time' transaction export to Azure Blob Storage and/or AWS S3**

**User must Purchase SQL Server Standard when using cameras for image capturing or license plate recognition*

***User must obtain their own Azure Blob Storage or AWS S3 account. Rice Lake does not provide cloud hosting.*

Specifications

Systems Requirements:
Windows® 10 or newer (x64 systems)

Databases:
10 GB max database size when using included Microsoft SQL Server Express
*Unlimited database size when using a purchased edition of Microsoft SQL Server (required when using image capturing or license plate recognition)

Communications:
Supports all Rice Lake indicator interfaces and 1280-based Automated Ticketing Kiosks
Interface to non-Rice Lake weigh indicators (call for details, indicator required for testing of created driver, Ethernet TCP/IP required)

Transaction Ticket:
User defined ticket formatting

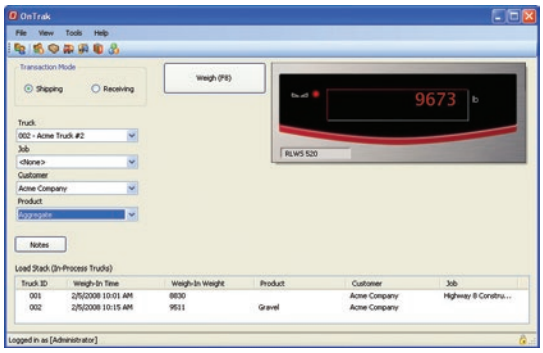
Export Data:
File export of completed transactions via: XML, JSON, CSV or TXT

Software Support:
Database configuration, field installation and training available
Phone support packages available
Contact Rice Lake for further options

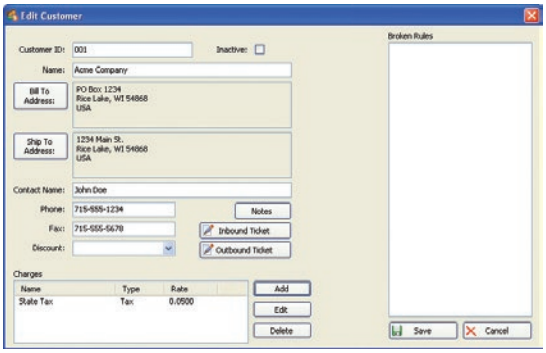
Approvals:
NTEP 23-098

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OnTrak®
TRUCK SCALE DATA MANAGEMENT



Weigh Scale



Customer Account Information

Approvals

Part Numbers/Price

Part #	Description	Price
104787	OnTrak activation code	$1,495.00
101062	OnTrack Software, USB	$84.00

OnTrak trial at www.ricelake.com/ontrak

Options/Accessories

Part #	Description	Price
Consult	Non-Rice Lake indicator interface	$295.00
Consult	Custom reports	$255.00/hour
Consult	Database configuration	$255.00/hour
FLD-INSTALL	Field installation	$1,395.00/ weekday plus expenses
104789	Phone support, one hour	$145.00
101003	Additional OnTrak manual	$65.00

Standard Features

- Supports systems using Windows® 10 and newer
- Microsoft SQL Server Express client/server database (free edition)
- Comprehensive report filters
- User and administrator roles
- Back up and restore via SQL Server Management Studio freely available through Microsoft
- Unlimited charge/discount per product
- Ship or Receive mode for each transaction
- Exclusive database for: customer, hauler, truck, product, job, price/discount, tax, transaction
- Ethernet TCP/IP or RS-232 connectivity
- Supports VIRTUi/VIRTUi2® or Rice Lake weight indicators
- CSV transaction file export
- Supports one or two scales

Optional Features

- Image capture with Ethernet camera TCP/IP (requires SQL Server Standard or better through Microsoft)
- Interface to non-Rice Lake weight indicators (call for details, indicator and technical manual required for testing of created driver)
- Custom reports
- Database configuration
- Field installation and training
- Factory phone support

Specifications

System Requirements:
Windows® 10 and newer (x64 systems)

Databases:
10 GB max database size when using included Micosoft SQL Server Express
Unlimited database size when using a purchased edition (contact Microsoft for details on purchasing a licensed edition of SQL Server)

Communications:
Support for multiple printers
Supports all Rice Lake indicator interfaces
Supports VIRTUi/VIRTUi2 interface
920i® based Automated Ticketing Kiosks
Optional drivers available for non-Rice Lake weight indicators

Transaction Ticket:
User defined ticket formatting

Reports:
Comprehensive report filters
Optional custom reports

Export Data:
File transfer via XML transaction; exported reports can be saved as PDF/XLS; configurable transaction data export in CSV file format

Transaction Calculations:
Unlimited product prices and discounts
Tax calculations (does not integrate directly to financial software)

Software Support:
Database configuration, field installation and training available
Phone support packages available
Contact Rice Lake for further options

Approvals:
NTEP 05-107

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Kiosk Safety Swing-away Arm

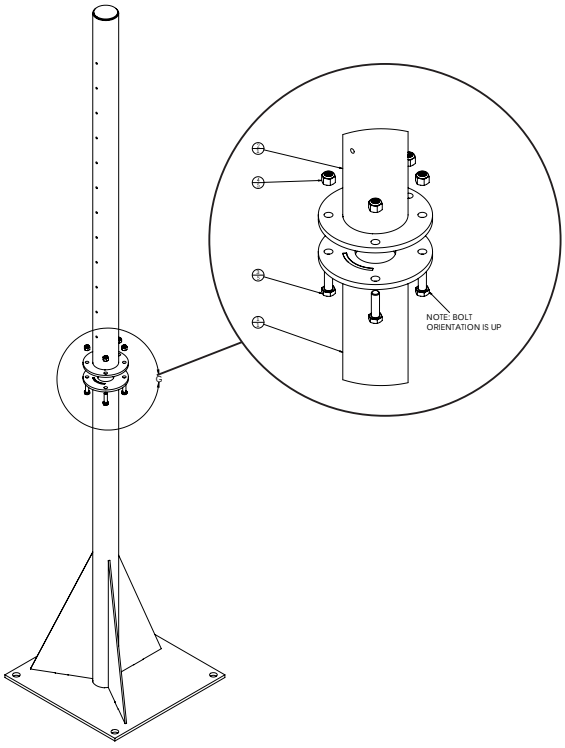


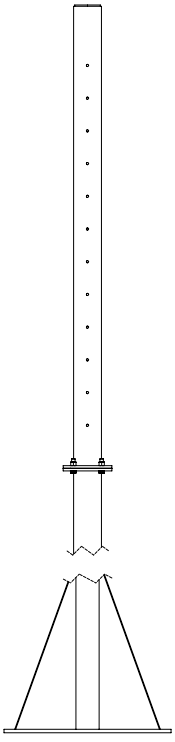
Standard Features

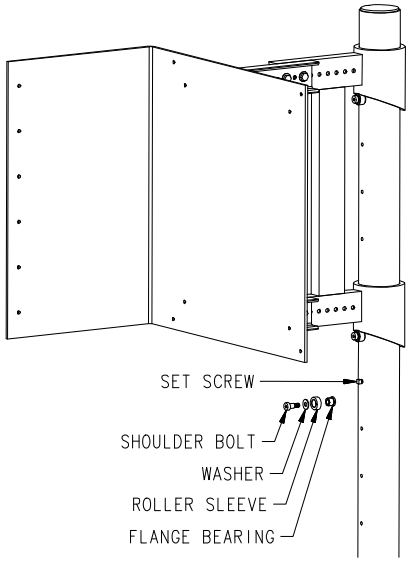
- Protects kiosk from vehicle traffic
- Swings away freely and returns to center position
- Universal mount accommodates a wide variety of kiosks
- Includes mounting pole and base stand
- Adjustable vertical and horizontal mounting

Part Number/Price

Part #	Description	Price
109164	Complete kit for pit type scale (10 ft pole, red)	$1,645.00
109163	Complete kit for aboveground scale (12 ft pole, red)	$1,675.00
105939	Weldment, swing arm, kiosk (red)	$895.00
105941	Pole weldment, 10 ft supported/free standing, 4.0 in O.D. (red)	$695.00
105940	Pole weldment, 12 ft supported/free standing, 4.0 in O.D. (red)	$775.00
110606	Weldment, swing arm 24 × 24 × 16 in side discharge printer kiosk (red)	$895.00
155435	Weldment, swing arm 30 × 24 × 16 in side discharge printer kiosk (red)	$1,145.00
178074	Complete kit for pit type scale (10 ft pole, yellow)	$1,645.00
178073	Complete kit for aboveground scale (12 ft pole, yellow)	$1,675.00
178077	Pole weldment, 10 ft supported free standing 4.0 in O.D. (yellow)	$695.00
178076	Pole weldment, 12 ft supported free standing 4.0 in O.D. (yellow)	$775.00
178075	Weldment, swing arm kiosk (yellow)	$895.00
160403	Mount, swing arm pole for SURVIVOR ATV truck scale	$1,295.00
225411	Mount for HID long range readers	Consult

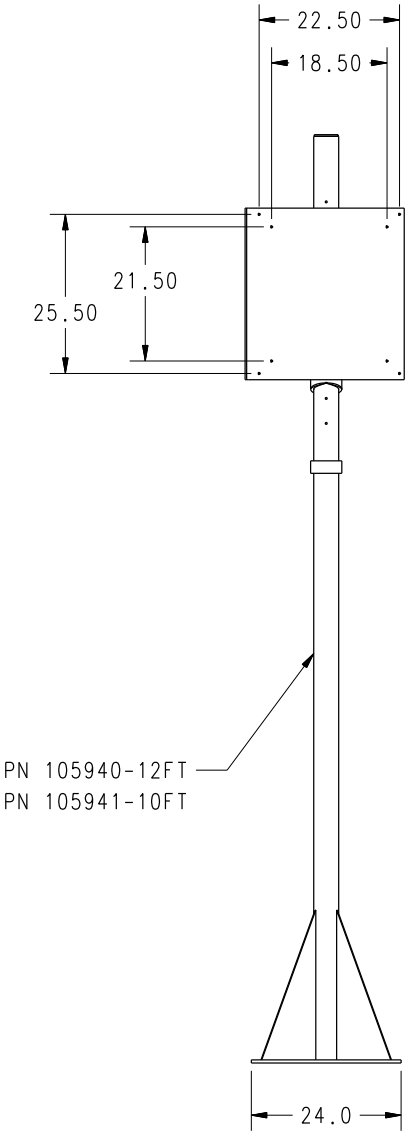




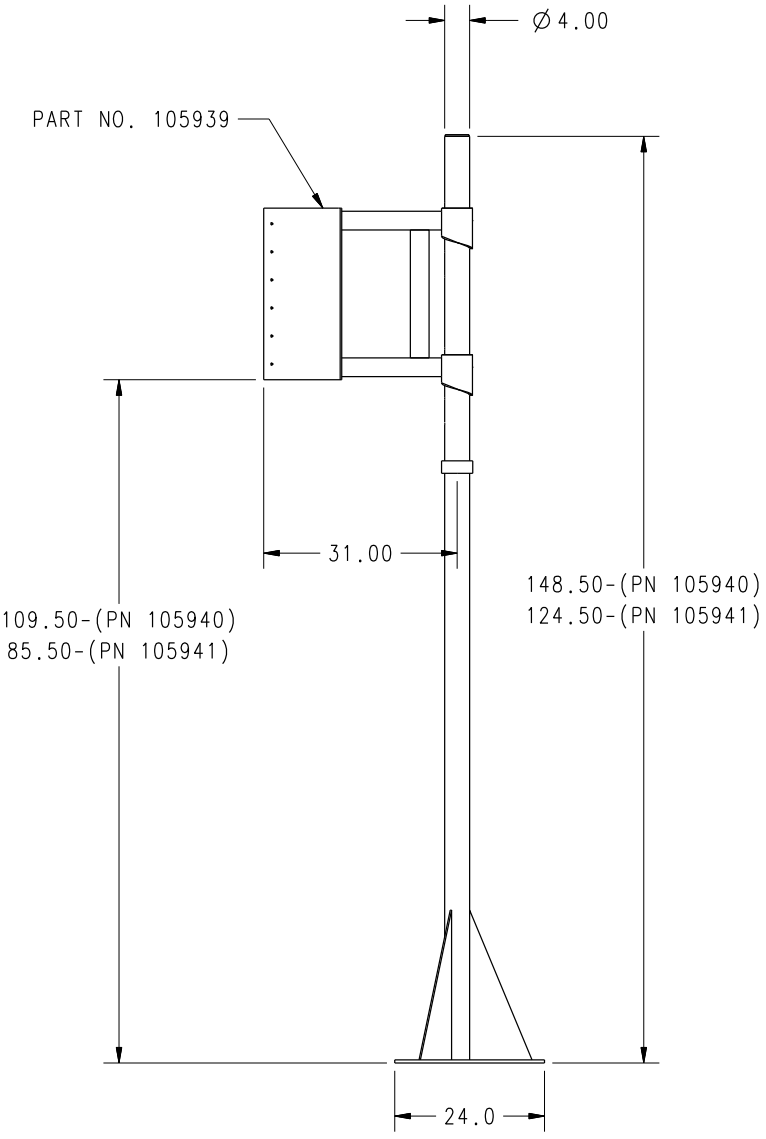


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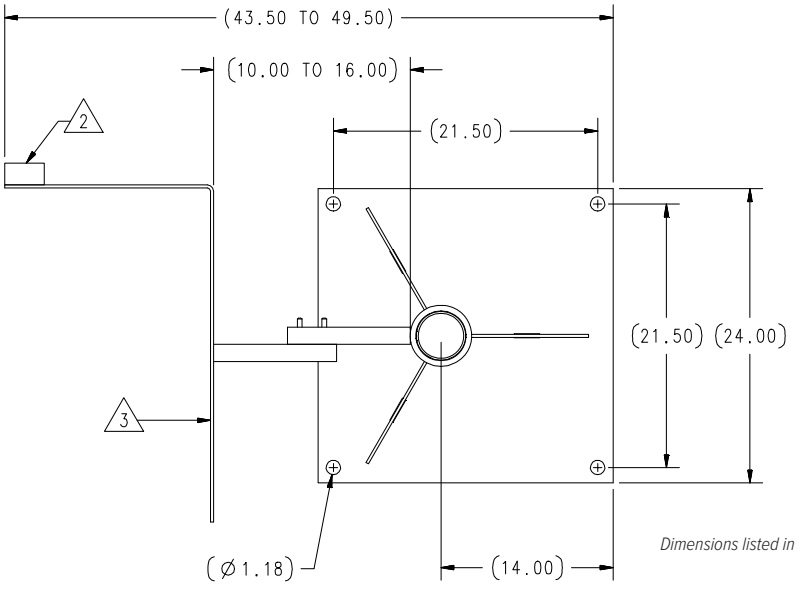
Kiosk Safety Swing-away Arm

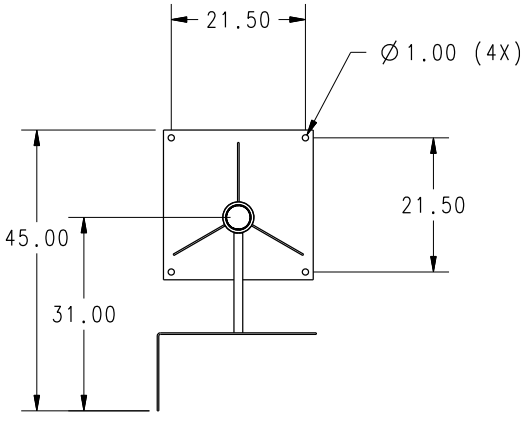


FRONT



SIDE





TOP

Dimensions listed in inches

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Traffic Light Kits



Traffic Light

Standard Features

Light

- Housing meets or exceeds ITE specifications
- Stainless steel hardware
- 8-in LED lights, enclosure injection molded polycarbonate
- LED modules
- Compliant to ITE UTCSH - LED circular signal
- Temperature compensated power supplies for long LED life
- Conformal coated power supplies
- Intertek/ETL certified and listed on ETL certification program

Pole

- 4.5 in outer dimension aluminum pole
- Cast aluminum base mounts to concrete with four anchor bolts
- Base underside has integrated anchor bolt guide to ensure proper anchor placement.
- Removable 8 in access door for cable splicing and bolt attachments (H × W) 15 × 13-3/4 in

Part Number/Price

Part #	Description	Est. Weight	Price
23146	2 Section, with mounting hardware for 4.5 in pole 120 VAC LED	25 lb	$1,025.00
85789	Kit, traffic light pole. Includes 8 ft aluminum pole, base & four 18 in anchors. Bolts with nuts and washers. Option: Pole cap (PN 179172)	70 lb	$1,055.00
179172	Aluminum pole cap, 4.5 in (for use when traffic light not mounted on pole)	-	$59.00
87111	Side mount brackets include 12 in nipples and universal hubs, bracket, aluminum upper and lower assembly	10 lb	$240.00
84504	Anchor bolt with nut washer	2 lb	$13.00
160242	Kit, dual traffic light includes (2) 23146 traffic lights, (2) 85789 traffic light poles (1) 160208 and electrical drawing (170218)	-	$5,395.00
160208	Control panel, dual traffic light	-	$975.00
156106	Buzzer box, 115 VAC	-	$795.00
163734	Switch box, remote includes legend plates for Zero, Print, Tare, Cancel and Accept	-	$315.00



Anchor bolt with nut and washer



Side Mount Brackets



Control Panel



Buzzer Box



Switch Box



Traffic Light Pole

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Vehicle Loop Detector



Standard Features

Vehicle Loop Detector

- Loop diagnostics
- Loop isolation transformer
- Loop conditioner
- Aluminum RF shield housing
- Surge protection
- Loop frequency counter
- 10 gold-plated sensitivity controls
- Eight gold-plated function controls
- Six gold-plated controls for frequency, reset and frequency counter
- Two high-intensity LED indicators
- Two relays—relay 2 is pulse or presence

Specifications

Power:
12 VAC/DC, 24 VAC, 24 VDC, 110 VAC, 220 VAC, maximum current draw 100 mA

Output Relays:
5A/125 VAC standard version, 1A/125 VAC low current version

Connector:
86CP11 compatible with 11-Pin Octal DIN-rail mountable socket or wire harness

Enclosure Material:
Extruded anodized aluminum

Enclosure Dimensions:
(L × W × H)
3.25 × 2.56 × 3.65 in
(83 × 40 × 90 mm)

Loop Dimensions:
4 × 6 ft thru 4 × 12 ft standard, custom sizes available

Loop Diameter:
0.26 in

Lead-in-Wire:
50 ft long, twisted wire in PVC jacket

Temperature:
Operating: -40 °F to 180 °F (-40 °C to 82 °C)

Loop Approvals:
UL subject 13, Type PLTC 300 V, 90 °C passes IEEE-328,210,000, BTU Flame Test Pennsylvania, Bureau of Deep Mine Safety, Approval P-MWMS-1-85

Part Number/Price

Part #	Description	Price
Consult	Relay box for additional I/O control	Consult
171093	Vehicle Detector includes pre-wired loop detectors, terminals for wiring lead wires from loops and power source. (loops not included)	$1,355.00
78986	Loop, vehicle detection preformed, 4 ft x 8 ft loop, 50 ft lead in wire	$275.00
86758	Loop, vehicle detection preformed, 4 ft x 10 ft loop, 50 ft lead in wire	$275.00

EMX Lite Preformed Loops



Standard Features

EMX Lite Preformed Loops

- Rugged and flexible TPE tubing
- Electronic lightning protection of vehicle detectors
- Comes standard with 50 ft of twisted and jacketed lead-in wire
- Vehicle detection loop is constructed of stranded wire conductors with thermoplastic elastomer insulation jacketing
- Outer shell is flexible nonmetallic 0.26 in tubing
- Two relays—relay 2 is pulse or presence
- Loop installation requires backer rod and epoxy sealant provided by others

Specifications

Power:
12 VAC/DC, 24 VAC, 24 VDC, 110 VAC, 220 VAC, maximum current draw 100 mA

Output Relays:
5A/125 VAC standard version, 1A/125 VAC low current version

Connector:
86CP11 compatible with 11-Pin Octal DIN-rail mountable socket or wire harness

Enclosure Material:
Extruded anodized aluminum

Enclosure Dimensions:
(L × W × H)
3.25 × 2.56 × 3.65 in
(83 × 40 × 90 mm)

Loop Dimensions:
4 × 6 ft thru 4 × 12 ft standard, custom sizes available

Loop Diameter:
0.26 in

Lead-in-Wire:
50 ft long, twisted wire in PVC jacket

Temperature:
Operating: -40 °F to 180 °F (-40 °C to 82 °C)

Loop Approvals:
UL subject 13, Type PLTC 300 V, 90 °C passes IEEE-328,210,000, BTU Flame Test Pennsylvania, Bureau of Deep Mine Safety, Approval P-MWMS-1-85

Part Number/Price

Part #	Description	Price
86601	Kit, vehicle detector includes detector, socket and 4 ft x 8 ft loop with 50 ft lead in wire. No enclosure or wiring terminals included.	$655.00
86759	Kit, vehicle detector includes detector, socket and 4 ft x 10 ft loop with 50 ft lead in wire. No enclosure or terminals included.	$655.00

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Photo Eyes



Retro-reflective

Standard Features

- Many varieties available for both truck scale and dynamic weighing applications
- Arrange photo eyes to keep wheels on scale
- Rugged outdoor applications
- Reflective types work up to 17 ft (5.18 m) in clean conditions
- Quick disconnects for easy replacement
- Broken beams can signal a wheel off the scale or prevent a weighment in unattended systems
- Transmitter/receiver types work up to 17 ft away in clean conditions

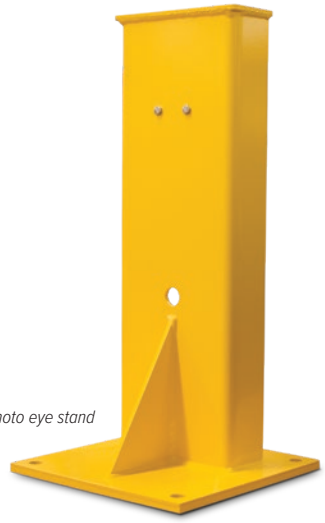
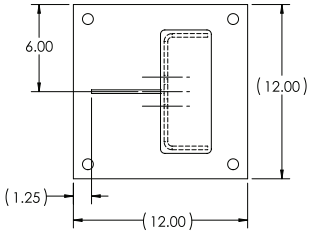


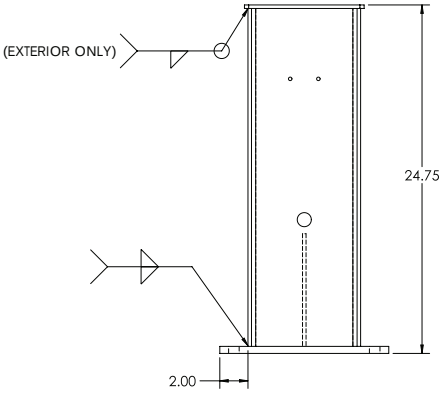
Photo eye stand

Part Number/Price

Part #	Description	Price
Photo Eyes		
78975	Allen-Bradley® photo eye retro-reflective sensor	$340.00
78976	Photo eye reflector, 3 in diameter	$29.00
78977	Quick disconnect photo eye cable, 12 ft, 5-pin mini connector	$145.00
Photo Switches		
165776	Kit, photo eye switch	$1,395.00
103013	Photo switch receiver	$300.00
103014	Photo switch transmitter	$225.00
196361	Photo switch transmitter (DC)	$265.00
103015	Photo switch quick connector receiver	$145.00
103016	Photo switch quick connector transmitter	$115.00
130398	Mounting swivel assembly for 103013 and 103014	$31.00
156532	Photo eye stand kit	$425.00



PN 156532 photo eye stand kit dimensions



Dimensions listed in inches

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Aviation

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Tracer® AV2 ..... **40**
Baggage Weighing Instrumentation

The following product names, logos, brands and other trademarks featured or referred to within this publication are the property of their respective trademark holders.

Tracer® AV2

Baggage Weighing Instrumentation



Approvals

Measurement Canada Approved

Ideal for baggage weighing, Tracer AV2 combines a sleek five-button keypad with the most durable stainless steel display. The simple-to-install display features a large, backlit LCD display and the rugged keypad will endure years of busy check-in counter use.

Part Number/Price

Part #	Description	Price
202532	Tracer AV2, single LCD panel mount display, single keypad	$2,060.00
202531	Tracer AV2, dual LCD panel mount display, single keypad	$2,495.00
207287	Tracer AV2, dual LCD panel mount display, dual keypad	$2,595.00
204452	Tracer AV2, single LCD external mount display, single keypad	$2,110.00
204451	Tracer AV2, dual LCD external mount display, single keypad	$2,645.00

To complete your system, refer to page 176 for the BenchMark® LP or page 177 for the BenchMark HD scales

Replacement Parts

Part #	Description	Price
205206	Tracer AV2 CPU module	$1,075.00
207288	Kit, RD2 LCD display	$510.00
207289	Kit, RD2 LCD display, external mount package	$565.00
207290	Kit, five-button keypad	$225.00
15438	Power cord, detachable, 7.5 ft long	$35.00
203937	Power supply, 7.5 V 30 W	$185.00
207302	Cable splitter, DB9 female to DB9 male connector	$11.00

Standard Features

- Customer display (panel mount)
- CPU module
- Supports two displays (customer/agent)
- Five-button keypad for ticket agent
- Accumulation function
- Display indicates overweight bag

Specifications

Power:
115 to 230 VAC to CPU module
50/60 Hz

Power Consumption:
6 W

Excitation Voltage:
5 VDC, 8 x 350 ohm load cells

Analog Signal Input Range:
-0.5 mV/V to 4.5 mV/V

Analog Signal Sensitivity:
1 µV/graduation recommended

A/D Sample Rate:
6.25 to 120 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 1,000,000

System Linearity:
Within 0.01% full scale

Communication:
Ethernet TCP/IP
USB Device

Annunciators:
lb/kg

Display:
Stainless steel, panel mounted, seven-digit LCD display, 0.8 in (20 mm) tall digits

Keys/Buttons:
Zero, Units, Accum, Print, Enter

Temperature Range:
14 °F to 104 °F (-10 °C to 40 °C)

Dimensions:
Panel Mount Display:
7.5 × 4.0 × 1.49 in
(19.05 × 10.16 × 3.79 cm)
External Mount Display:
7.5 × 3.9 × 1.44 in
(19.05 × 9.91 × 3.66 cm)
Panel Mount Keypad:
4.0 × 2.5 × 2.1 in
(10.16 × 6.35 × 5.33 cm)
CPU Enclosure:
7.5 × 7.0 × 2.25 in
without mounting feet
11.13 × 7.0 × 3.06 in
with mounting feet

Weight:
5.25 lb

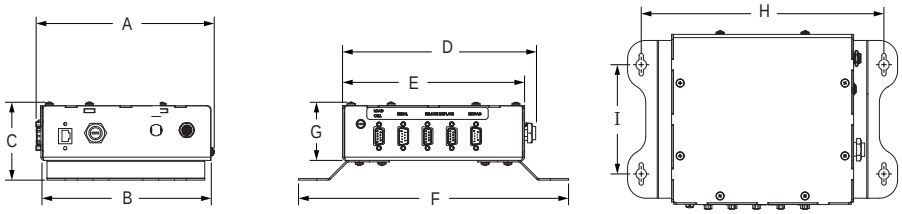
Warranty:
Two-year limited

Approvals:
NTEP 21-015, Class III/IIIL, 10,000d
Measurement Canada AM-6168C
cULus
IEC

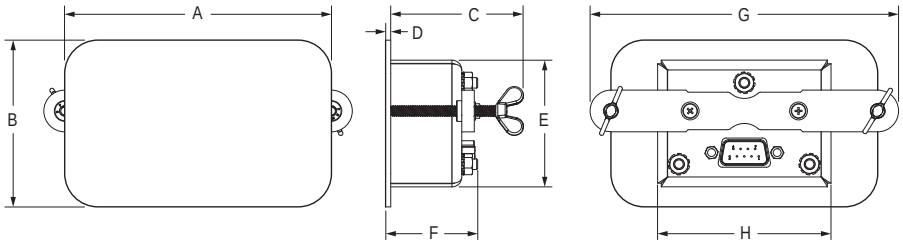
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Dimensions

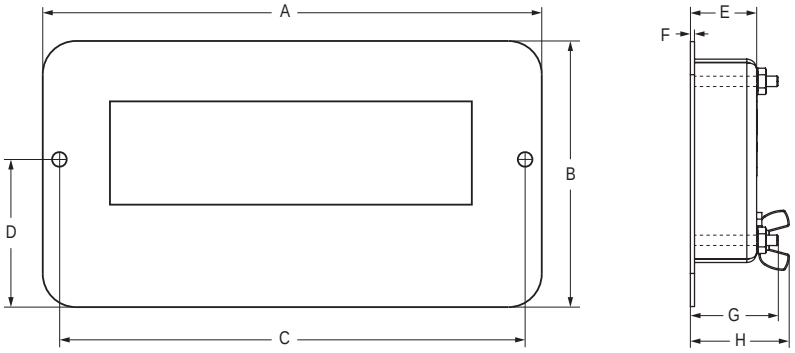
CPU Enclosure Assembly			
A	7.30 in (18.55 cm)	F	11.10 in (28.20 cm)
B	7.00 in (17.78 cm)	G	2.40 in (6.10 cm)
C	3.20 in (8.13 cm)	H	10.00 in (25.40 cm)
D	8.00 in (20.32 cm)	I	4.50 in (11.43 cm)
E	7.50 in (19.05 cm)		



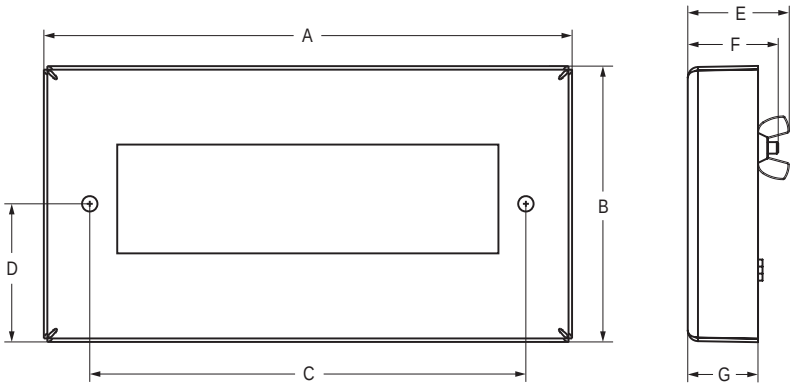
Remote Keypad (Panel Mount)			
A	4.00 in (10.16 cm)	E	1.90 in (4.83 cm)
B	2.50 in (6.35 cm)	F	1.38 in (3.51 cm)
C	1.98 in (5.03 cm)	G	4.63 in (11.76 cm)
D	0.063 in (0.16 cm)	H	2.60 in (6.61 cm)



Remote Display (Panel Mount)			
A	7.50 in (19.05 cm)	E	1.00 in (2.54 cm)
B	4.00 in (10.16 cm)	F	0.06 in (0.16 cm)
C	7.00 in (17.78 cm)	G	1.33 in (3.38 cm)
D	2.22 in (5.64 cm)	H	1.49 in (3.79 cm)



Remote Display (External Mount)			
A	7.50 in (19.05 cm)	E	1.44 in (3.66 cm)
B	3.90 in (9.91 cm)	F	1.29 in (3.28 cm)
C	6.22 in (15.80 cm)	G	1.00 in (2.54 cm)
D	1.95 in (4.96 cm)		



AVIATION

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TA Plus Series

Standard Features

- Mono-metal tuning fork sensor (MMTS) provides quick response and stability
- Internal adjustment weight
- Anti-electrostatic 360° transparent windshield
- Eight-digit, 16.5 mm high liquid crystal display (LCD) with backlight
- Single-touch response setting for environment
- 40-step bar graph display
- RS-232 interface for connecting to printer or PC
- ISO/GLP/GMP compliant printing record
- Plastic housing
- Underweigh hook

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce, decimal pound (see technical manual for complete listing)

Operating Modes:
Counting, percentage, limit function (checkweighing), specific gravity

Power:
120 VAC adapter

RS-232 Baud Rate:
1200/2400/4800/9600/19200 bps, 8/7 data bits, Parity bit-none/odd/even

Calibration Weight:
TA Plus-124: 120 g
TA Plus-224: 220 g

Temperature:
Operating:
50 °F to 86 °F (10 °C to 30 °C)

Humidity:
80% RH or lower

Est. Weight:
6.4 lb (2.9 kg)

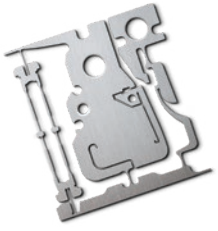
Warranty:
Five-year limited

Return Policy:
Rice Lake standard policy

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
TA Plus-124	120 g	0.0001 g	1 division	1 division	Ø 3.15 in (80 mm)	8.9 × 8.4 × 8.4 in (225 × 213 × 213 mm)	11 × 7.9 × 12 in (290 × 200 × 306 mm)	**196569**	$2,225.00
TA Plus-224	220 g	0.0001 g	1 division	1 division	Ø 3.15 in (80 mm)	8.9 × 8.4 × 8.4 in (225 × 213 × 213 mm)	11 × 7.9 × 12 in (290 × 200 × 306 mm)	**196570**	$2,272.00

Options/Accessories

Part#	Description	Price
108255	115 VAC adapter	$58.00
108256	230 VAC adapter	$88.00
108257	In-use cover	$58.00
107398	Additional operating manual	$18.00
75351	WinWedge® Tal software	$345.00
66535	Null modem cable	$48.00
119919	AbleCable, requires null modem cable PN 66535	$190.00



MMTS technology 50 times more sensitive than a load cell.



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TE Enhanced Series

Standard Features

- Mono-metal tuning fork sensor (MMTS) provides quick response and stability
- Seven-segment (main)/ 16-segment (sub) display
- 30-step bar graph display
- AA dry-cell port, (150 hours continuous use with LCD backlight and communication signal ON)
- RS-232 interface for connecting to printer or PC
- Glass breeze break (available on TE-223, TE-322NC and TE-623 only)

Specifications

Weighing Units:
Milligram, gram, ounce, pound, carat, pennyweight, troy ounce (see technical manual for complete listing)

Operating Modes:
Weighing, counting, percentage, coefficient, specific gravity, statistics, animal, formulation

Power:
100 to 240 VAC adapter, AA dry cell (batteries not included)

Temperature:
Operating:
41 °F to 95 °F (5 °C to 35 °C)

Est. Weight:
TE-223/322NC: 6.5 lb (3 kg)
TE-623/3202/6202/15001/1501NC/8200NC: 6.0 lb (2.7 kg)

Warranty:
Five-year limited

Return Policy:
Rice Lake standard policy

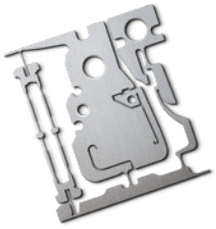
Approvals:
NTEP Certified 17-104A2
Measurement Canada AM-6169

Measurement Canada Approved

Model	Capacity	Resolution	NTEP Resolution	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
NTEP Certified Only								
TE-223	220 g	0.001 g	0.01 g	4.6 in (118 mm)	8.9 × 5.9 × 5.9 in (226 × 150 × 150 mm)	10.6 × 8.1 × 11.8 in (270 × 208 × 301 mm)	**187600**	$1,135.00
TE-623	620 g	0.001 g	0.01 g	4.6 in (118 mm)	8.9 × 5.9 × 5.9 in (226 × 150 × 150 mm)	10.6 × 8.1 × 11.8 in (270 × 208 × 301 mm)	**186030**	$1,445.00
TE-3202	3,200 g	0.01 g	0.1 g	6.3 × 7.1 in (160 × 180 mm)	N/A	10.4 × 7.5 × 3.4 in (265 × 192 × 86 mm)	**186035**	$1,240.00
TE-6202	6,200 g	0.01 g	0.1 g	6.3 × 7.1 in (160 × 180 mm)	N/A	10.4 × 7.5 × 3.4 in (265 × 192 × 86 mm)	**186036**	$1,342.00
TE-15001	15,000 g	0.1 g	1.0 g	6.3 × 7.1 in (160 × 180 mm)	N/A	10.4 × 7.5 × 3.4 in (265 × 192 × 86 mm)	**186037**	$1,230.00
NTEP Certified and Measurement Canada Approved								
TE-322NC	320 g	0.01 g	0.01 g	4.6 in (118 mm)	8.9 × 5.9 × 5.9 in (226 × 150 × 150 mm)	10.6 × 8.1 × 11.8 in (270 × 208 × 301 mm)	**204688**	$1,200.00
TE-1501NC	1,500 g	0.1 g	0.1 g	6.3 × 7.1 in (160 × 180 mm)	N/A	10.4 × 7.5 × 3.4 in (265 × 192 × 86 mm)	**204689**	$1,310.00
TE-8200NC	8,200 g	1 g	1 g	6.3 × 7.1 in (160 × 180 mm)	N/A	10.4 × 7.5 × 3.4 in (265 × 192 × 86 mm)	**204690**	$1,310.00

Options/Accessories

Part#	Description	Price
186074	Power supply 100-240 VAC, 50-60 Hz	$75.00
186075	In-use dust cover 620 g models and lower	$30.00
186076	In-use dust cover 3,200 g models and higher	$30.00
186077	Specific Density Measurement Kit	$690.00
186079	Ethernet TCP/IP option card	$690.00
229185	Replacement Breeze break for TE-223, TE-623 and TE-322NC	$190.00



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TS Series Washdown

Standard Features

- Mono-metal tuning fork sensor (MMTS) provides quick response and stability
- Stainless steel, IP65 top housing
- Large, 18 mm LCD with blacklight
- Selectable modes
- 13 units of measurement
- Washdown with IP65 rating
- Semi-automatic calibration, external weight
- RS-232 interface for connecting to printer or PC

OPTIONS

- Battery holder
- Underweigh hook
- Waterproof RS-232 cable

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce, decimal pound (see technical manual for complete listing)

Operating Modes:
Weight, count, percentage, limit function (checkweighing)

Power:
120 VAC adapter included (230 VAC optional)

Battery Option:
Four AA batteries
(not included)

RS-232 Baud Rate:
1200/2400/2800/9600;
Data bits - 8, Connector-DIN 5-pin

Calibration Weight:
TP-620: 600 g
TP-6200: 6,000 g
TP-8200: 8,000 g

Temperature:
Operating:
41 °F to 95 °F (5 °C to 35 °C)

Est. Weight:
6.2 lb (2.8 kg)

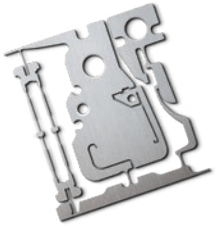
Warranty:
Five-year limited

Return Policy:
Rice Lake standard policy

Model	Capacity	Resolution	Calibration	Part #	List Price
TS-620	620 g	0.01 g	600 g	**108156**	$1,445.00
TS-6200	6,200 g	0.1 g	6,000 g	**108157**	$1,545.00
TS-8200	8,200 g	0.1 g	8,000 g	**112182**	$1,650.00

Options/Accessories

Part#	Description	Price
108499	AC adapter, multi-range 110:230 VAC, 6 VDC	$58.00
72440	9-pin D-sub F-25-Pin D-sub connector	$67.00
22436	9-pin D-sub F to blunt end	$70.00
66535	Null modem cable	$48.00
119064	Slimline adapter, null modem gender changer	$12.50
109236	Underweigh hook	$30.00
109238	Waterproof RS-232 cable	$400.00
109050	Additional operating manual	$18.00
112611	Battery operator manual	$7.00
112516	Battery holder option, requires Four AA batteries (not included)	$121.00
119919	AbleCable, requires null modem cable PN 66535	$190.00



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TP Series

Standard Features

- Mono-metal tuning fork sensor (MMTS) provides quick response and stability
- Large, 16.5 mm-high backlit liquid crystal display (LCD)
- 20-step bar graph display
- RS-232 interface for connecting to printer or PC
- Plastic housing on models <1,000 g
- Plastic top and die-cast bottom on models >1,000 g

OPTIONS

- Rechargeable battery
- Underweigh hook

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce, decimal pound (see technical manual for complete listing)

Operating Modes:
Weight, count, percentage, limit function (checkweighing)

Power:
120 VAC (adapter included)

Battery Option:
Nickel-cadmium battery, 12-hour run time, 24-hour charge time

RS-232 Baud Rate:
1200/2400/2800/9600;
Data bits - 8, connector-DIN 5-pin

Calibration Weight:
TP-220: 200 g
TP-820: 800 g
TP-3200: 3,000 g
TP-8200: 8,000 g
TP-12K: 12,000 g

Temperature:
Operating:
41 °F to 95 °F (5 °C to 35 °C)

Est. Weight:
6.2 lb (2.8 kg)

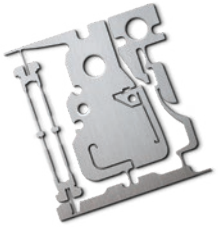
Warranty:
Five-year limited

Return Policy:
Rice Lake standard policy

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
TP-220	220 g	0.001 g	1 division	1 division	Ø 4.6 in (117 mm)	3.7 × 5.5 × 3.7 in (95 × 140 × 95 mm)	9.2 × 7.1 × 6.6 in *(including draft shield)* (235 × 182 × 170 mm)	**107244**	$1,201.00
TP-820	820 g	0.01 g	1 division	1 division	6.6 in × 5.5 in (168 × 140 mm)	N/A	9.2 × 7.1 × 2.9 in (235 × 182 × 75 mm)	**107245**	$1,201.00
TP-3200	3,200 g	0.01 g	1 division	1 division	7 in × 6.2 in (178 × 158 mm)	N/A	10.1 × 7.5 × 3.4 in (265 × 192 × 87 mm)	**107246**	$1,355.00
TP-8200	8,200 g	0.1 g	1 division	1 division	7 in × 6.2 in (178 × 158 mm)	N/A	10.1 × 7.5 × 3.4 in (265 × 192 × 87 mm)	**107247**	$1,201.00
TP-12K	12,000 g	0.1 g	1 division	1 division	7 in × 6.2 in (178 × 158 mm)	N/A	10.1 × 7.5 × 3.4 in (265 × 192 × 87 mm)	**107248**	$1,385.00

Options/Accessories

Part#	Description	Price
107249	Rechargeable battery ≤TP-820	$121.00
107237	Rechargeable battery ≥TP-3200	$121.00
107250	In-use dust cover ≥TP-3200	$30.00
107240	In-use dust cover ≤TP-820	$30.00
109236	Underweigh hook ≤TP-820	$30.00
109292	Underweigh hook ≥TP-3200	$30.00
42566	115 VAC adapter/12 VDC	$76.00
42168	230 VAC adapter	$82.00
107251	Additional operating manual	$18.00
75351	WinWedge® Tal software	$345.00
115303	5-pin to 9-pin DB female RS-232 cable	$111.00



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TC Series

Standard Features

- Mono-metal tuning fork sensor (MMTS) provides quick response and stability
- Large, 16.5 mm-high, backlit liquid crystal display (LCD)
- 20-step bar graph display
- Semi-automatic calibration, external weight
- Plastic housing on models <1,000 g
- Plastic top and die-cast bottom on models >1,000 g

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce, decimal pound (see technical manual for complete listing)

Operating Modes:
Weight, count, percentage, limit function (checkweighing)

Power:
115 VAC adapter included (230 VAC optional)

Calibration Weight:
TC-620: 600 g
TC-1200: 1,200 g
TC-4200: 4,000 g
TC-6200: 6,200 g

Temperature:
Operating:
41 °F to 95 °F (5 °C to 35 °C)

Est. Weight:
TC-620: 2.9 lb (1.3 kg)
TC-1200: 2.9 lb (1.3 kg)
TC-4200: 5.9 lb (2.7 kg)
TC-6200: 5.9 lb (2.7 kg)

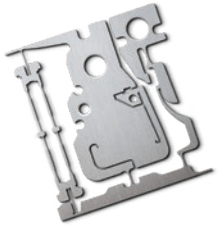
Warranty:
Five-year limited

Return Policy:
Rice Lake standard policy

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
TC-620	620 g	0.01 g	1 division	1 division	Ø 5.5 in (140 mm)	9.2 × 7.1 × 2.9 in (234 × 180 × 74 mm)	**107232**	$840.00
TC-1200	1,200 g	0.1 g	1 division	1 division	6.7 × 5.6 in (170 × 142 mm)	10.4 × 7.5 × 3.4 in (264 × 191 × 86 mm)	**107233**	$775.00
TC-4200	4,200 g	0.1 g	1 division	1 division	7 × 6.2 in (178 × 158 mm)	10.4 × 7.5 × 3.4 in (264 × 191 × 86 mm)	**107234**	$840.00
TC-6200	6,200 g	0.1 g	1 division	1 division	7 × 6.2 in (178 × 158 mm)	10.4 × 7.5 × 3.4 in (264 × 191 × 86 mm)	**107235**	$905.00

Options/Accessories

Part#	Description	Price
107236	Rechargeable battery TC-620, TC-1200, 32 hr	$121.00
107237	Rechargeable battery TC-4200, TC-6200, 32 hr	$121.00
107238	RS-232 option with DIN-5-pin connector (not compatible with battery option) (TC-620, TC-1200)	$150.00
107239	RS-232 option with DIN-5-pin connection (not compatible with battery option) (TC-4200,TC-6200)	$150.00
107240	In-use dust cover, 620 g to 1,200 g	$30.00
107250	In-use dust cover, 4,200 g to 6,200 g	$30.00
109236	Underweigh hook TC-620, TC-1200	$30.00
109292	Underweigh hook TC-4200, TC-6200	$30.00
42566	120 VAC adapter/12 VDC	$76.00
42168	230 VAC adapter	$82.00
107243	Additional operating manual	$18.00
75351	WinWedge® software	$345.00
115303	5-pin DIN to DB9F RS-232 cable	$111.00
115148	RS-232 manual	$7.00



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Equipoise® Series

Standard Features

- LCD display
- Quick response
- Accumulation, counting and percentage modes
- 13 different units of measure
- Detachable enclosed weighing chamber (in capacities = 1 kg)
- Battery operation for up to 40 hours of continuous use (without backlight)
- RS-232 interface for connecting to printer or PC
- Plastic enclosure

Specifications

Weighing Units:
Gram, ounce, pound, carat, pennyweight, troy ounce, grain (see technical manual for complete listing)

Operating Modes:
Weighing, percent weighing, parts counting, accumulation

Power:
AC adapter (12 V/500 mA); internal rechargeable battery (6 V/1.2 Ah)

Stabilization Time:
2 seconds

Battery Life:
Up to 40 hours of continuous use (without backlight)

Calibration Weight:
EQ-300: 300 g
EQ-600: 600 g
EQ-1500: 1,500 g
EQ-3000: 3,000 g
EQ-6000: 6,000 g

Temperature:
Operating:
32 °F to 104 °F (0 °C to 40 °C)

Est. Weight:
6.6 lb (3 kg)

Return Policy:
Rice Lake standard policy

Warranty:
One-year limited

Approval:
CE Approved

CE

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Part #	List Price
EQ-300	300 g	0.01 g	0.01 g	0.02 g	6.7 × 5.7 × 3.1 in (170 × 145 × 80 mm)	Ø 4.7 in (Ø 120 mm)	**165338**	$310.00
EQ-600	600 g	0.02 g	0.02 g	0.04 g	6.7 × 5.7 × 3.1 in (170 × 145 × 80 mm)	Ø 4.7 in (Ø 120 mm)	**165339**	$310.00
EQ-1500	1,500 g	0.05 g	0.05 g	0.1 g	N/A	4.8 × 5.6 in (122 × 142 mm)	**165340**	$310.00
EQ-3000	3,000 g	0.1 g	0.1 g	0.2 g	N/A	4.8 × 5.6 in (122 × 142 mm)	**165341**	$310.00
EQ-6000	6,000 g	0.2 g	0.2 g	0.4 g	N/A	4.8 × 5.6 in (122 × 142 mm)	**165342**	$310.00

Options/Accessories

Part#	Description	Price
41279	Printer cable, DB9M to 25-pin M	$70.00
103142	SP742 dot matrix printer, tear bar	$520.00
119919	AbleCable RS-232/USB cable (requires 130789)	$190.00
130789	Slim line null modem adapter	$14.50
131135	Aluminum case	$103.00
165183	AC adapter, 110-240 V AC, interchangeable plugs	$46.00



PN 165183 Multi-range AC adapter and multi-plug



BALANCES
RICE LAKE

MC Series

Standard Features

- Super hybrid sensor technology
- Bright VFD display
- Manage ASTM and OIML weights
- Built-in calibration weight
- GLP/LIM/ISO compliant
- RS-232 interface for connecting to printer or PC
- Underweigh hook

Specifications

Weighing Units:
Gram, ounce, pound, carat, pennyweight, troy ounce, pound/ounce (see technical manual for complete listing)

Operating Modes:
Weighing, percentage, comparator

Power:
120/240 AC adapter

Stabilization Time:
5 seconds

Calibration Weight:
MC-1000S: 1,000 g
MC-6100: 6,000 g
MC-10K: 10 kg
MC-30K: 30 kg

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
MC-1000S: 4.6 kg
MC-6100: 5.1 kg
MC-10K and MC-30K: 9.3 kg

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MC-1000S	1,100 g	0.1 mg	0.0005 g / 1 kg / 0.0004 g / 500 g	±0.002 g	5.04 × 5.04 in (128 × 128 mm)	8.27 × 12.48 × 3.39 in (210 × 317 × 86 mm)	**151262**	$8,167.50
MC-6100	6,100 g	0.001 g	0.004 g / 5 kg / 0.0015 g / 2 kg	±0.02 g	5.79 × 5.79 in (147 × 147 mm)	10.63 × 8.27 in (270 × 210 mm)	**151263**	$8,167.50
MC-10K	10.1 kg	0.001 g	0.005 g / 10 kg / 0.004 g / 5 kg	±0.03 g	10.63 × 8.27 in (270 × 210 mm)	11.81 × 13.80 × 4.37 in (300 × 355 × 111 mm)	**151264**	$9,790.00
MC-30K	31 kg	0.01 g	0.015 g / 20 kg	±0.2 g	10.63 × 8.27 in (270 × 210 mm)	10.63 × 10.63 in (270 × 210 mm)	**151265**	$9,790.00

Options/Accessories

Part #	Model #	Description	Price
151266	AX-MC1000PAN	Auto center pan, MC-1000S	$1,529.00
151267	AX-MC6100PAN	Auto center pan, MC-6100	$1,529.00
151268	AX-MC10K-30KPAN	Auto center pan, MC-10/30K	$1,947.00
151247	AD-1688	Data logger	$407.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30
97695*	GX-04	Comparator output, factory installed	$1,056.00
97696*	GX-06	Analog output, factory installed	$1,111.00
97699	GX-12	Animal weigh pan	$225.50
97700	GX-13	Density determination for MC-1000S	$764.50
97607	AD-1682	External rechargeable battery pack	$896.50
97612	SW-128	Foot switch	$110.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00

** Only one option may be installed and requires factory installation*



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Ion BM Series

Standard Features

- Built-in fanless static eliminator
- Anti-static glass
- Weighing chamber
- Built-in motorized calibration weight
- One-touch environmental filters
- GLP/LIM/ISO compliant
- RS-232C and WinCT software standard
- AD-1688 Weighing Data Logger included
- Underweigh hook

Specifications

Weighing Units:
Carat, pennyweight, troy ounce (see technical manual for complete listing)

Operating Modes:
Percentage, counting

Power:
120/240 AC adapter

Stabilization Time:
BM-20: 10 seconds (typically)
BM-22: 8 to 10 seconds
BM-252: 8 seconds

Calibration Weight:
BM-20 and BM-22: 20 g
BM-252: 200 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
22 lb (10 kg) ships by motor freight

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BM-20	22 g	0.000001 g	0.0025 mg	±0.010 mg	Ø 0.98 in (25 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	**150762**	$21,477.50
BM-22	22 g / 5.1 g	0.00001 g / 0.000001 g	0.004 mg / 0.01 mg	±0.010 mg / 0.02 mg	Ø 0.98 in (25 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	**150763**	$20,405.00
BM-252	250 g	0.00001 g	0.03 mg	±0.010 mg	Ø 3.6 in (90 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	**150765**	$10,862.50

Options/Accessories

Part #	Model #	Description	Price
150769	BM-08	Balance OPT, Ethernet BM	$385.00
97606	AD-1653	Density determination kit (BM-252/200/300/500 only)	$742.50
97609	AD-8922A	Remote controller	$841.50
97608	AD-8920A	Universal remote display	$357.50
97612	SW:128	Foot switch	$110.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00



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Phoenix GH Series

Standard Features

- Simple and easy to operate, adapts to your environment
- GLP/GMP/GCP/ISO compliant which outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Internal adjustment weight
- System diagnostic to alert operator of abnormal weighing conditions
- Weighing chamber
- RS-232 interface for connecting to printer or PC
- Data memory function
- Time and date function
- WinCT communication tools software
- Liquid crystal display (LCD)
- Underweigh hook

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce (see technical manual for complete listing)

Operating Modes:
Percentage, counting

Power:
120 VAC (AC adapter) 50/60 Hz, 11 VA (110, 220, 240 available by special order)

Stabilization Time:
Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)

Calibration Weight:
20 g/50 g/100 g/200 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
Approx. 18 lb (8.2 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GH-202	220 g / 51 g	0.0001 / 0.00001 g	±0.2 mg / ±0.03 mg	0.1 mg / 0.02 mg	6.45 × 4.87 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	**97601**	$6,710.00
GH-252	250 g / 101 g	0.0001 / 0.00001 g	±0.2 mg / ±0.10 mg	0.1 mg / 0.03 mg	6.45 × 4.87 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	**97602**	$7,370.00

Options/Accessories

Part #	Model #	Description	Price
97604	GH-08	Ethernet option for GH	$385.00
97605	AD-100-2	Anti-theft device	$99.00
97606	AD-1653	Density determination kit	$742.50
97607	AD-1682	Rechargeable battery pack, external	$896.50
97608	AD-8920A	Universal remote display	$357.50
97609	AD-8922A	Remote controller	$841.50
97610	AD-1683	Static eliminator	$1,584.00
151247	AD-1688	Data logger	$407.00
97612	SW:128	Foot switch	$110.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30



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Gemini GR Series

Standard Features

- GLP/GMP/GCP/ISO compliant software outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Easy-access door system
- Automatic self-calibration
- Data memory function
- Weighing chamber
- Internal adjustment weight
- Liquid crystal display (LCD)
- RS-232 interface for connecting to printer or PC
- WinCT communication tools software
- Underweigh hook

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce (see technical manual for complete listing)

Operating Modes:
Percentage, counting

Power:
120 VAC (AC adapter) 50/60 Hz, 11 VA (110, 220, 240 VAC adapter by special order)

Stabilization Time:
Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)

Calibration Weight:
100 g/200 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
Approx. 13.2 lb (6.0 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GR-202	210 / 42 g	0.0001 / 0.00001 g	0.0001 / 0.00002 g	±0.0002 / ±0.00003 g	7.01 × 6.5 × 9.17 in (178 × 160 × 233 mm)	Ø 3.3 in (85 mm)	9.8 × 12.99 × 12.87 in (249 × 330 × 327 mm)	**97628**	$6,187.50

Options/Accessories

Part #	A&D Model #	Description	Price
97605	AD-100-2	Anti-theft device	$99.00
97606	AD-1653	Density determination kit	$742.50
97607	AD-1682	Rechargeable battery pack	$896.50
97608	AD-8920A	Universal remote display	$357.50
97609	AD-8922A	Remote controller	$841.50
97610	AD-1683	Static eliminator	$1,584.00
97612	SW:128	Foot switch	$110.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30
151247	AD-1688	Data logger	$407.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00



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Ion BM Series

Standard Features

- Built-in fanless static eliminator
- Anti-static glass
- Weighing chamber
- Built-in motorized calibration weight
- One-touch environmental filters
- GLP/LIM/ISO compliant
- RS-232C and WinCT software standard
- AD-1688 Weighing Data Logger included
- Underweigh hook

Specifications

Weighing Units:
Carat, pennyweight, troy ounce
(see technical manual for complete listing)

Operating Modes:
Percentage, counting

Power:
120/240 AC adapter

Stabilization Time:
BM-200, BM-300, BM-500: approx. 3.5 seconds

Calibration Weight:
BM-200: 200 g
BM-300: 300 g
BM-500: 500 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
22 lb (10 kg) ships by motor freight

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BM-200	220 g	0.0001 g	0.1 mg	±0.2 mg	Ø 3.6 in (90 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	**150766**	$5,775.00
BM-300	320 g	0.0001 g	0.2 mg	±0.3 mg	Ø 3.6 in (90 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	**150767**	$6,022.50
BM-500	520 g	0.0001 g	0.2 mg	±0.5 mg	Ø 3.6 in (90 mm)	10.2 × 18.3 × 12.8 in (259 × 466 × 326 mm)	**150768**	$8,387.50

Options/Accessories

Part #	Model #	Description	Price
150769	BM-08	Balance OPT, Ethernet BM	$385.00
97606	AD-1653	Density determination kit	$742.50
97609	AD-8922A	Remote controller	$841.50
97608	AD-8920A	Universal remote display	$357.50
97612	SW:128	Foot switch	$110.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00



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Phoenix GH Series

Standard Features

- Simple and easy to operate, adapts to your environment
- GLP/GMP/GCP/ISO compliant which outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Internal adjustment weight
- System diagnostic to alert operator of abnormal weighing conditions
- Weighing chamber
- RS-232 interface for connecting to printer or PC
- Data memory function
- Time and date function
- WinCT communication tools software
- Liquid crystal display (LCD)
- Underweigh hook

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce (see technical manual for complete listing)

Operating Modes:
Percentage, counting

Power:
120 VAC (AC adapter) 50/60 Hz, 11 VA (110, 220, 240 available by special order)

Stabilization Time:
Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)

Calibration Weight:
GH-120: 50 g/100 g
GH-200: 100 g/200 g
GH-300: 100 g/200 g/300 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less (no condensation)

Est. Weight:
Approx. 18 lb (8.2 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GH-120	120 g	0.0001 g	±0.2 mg	0.1 mg	6.45 × 4.87 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	**97597**	$4,455.00
GH-200	220 g	0.0001 g	±0.2 mg	0.1 mg	6.45 × 4.87 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	**97599**	$5,032.50
GH-300	320 g	0.0001 g	±0.3 mg	0.2 mg	6.45 × 4.87 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	**97600**	$5,967.50

Options/Accessories

Part #	Model #	Description	Price
97604	GH-08	Ethernet option	$385.00
97605	AD-100-2	Anti-theft device	$99.00
97606	AD-1653	Density determination kit	$742.50
97607	AD-1682	Rechargeable battery pack, external	$896.50
97608	AD-8920A	Universal remote display	$357.50
97609	AD-8922A	Remote controller	$841.50
97610	AD-1683	Static eliminator	$1,584.00
151247	AD-1688	Data logger	$407.00
97612	SW:128	Foot switch	$110.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30



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Gemini GR Series

Standard Features

- GLP/GMP/GCP/ISO compliant software outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Easy-access door system
- Automatic self-calibration
- Data memory function
- Weighing chamber
- Internal adjustment weight
- Liquid crystal display (LCD)
- RS-232 interface for connecting to printer or PC
- WinCT communication tools software
- Underweigh hook

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce (see technical manual for complete listing)

Operating Modes:
Percentage, counting

Power:
120 VAC (AC adapter) 50/60 Hz, 11 VA (110, 220, 240 VAC adapter by special order)

Stabilization Time:
Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)

Calibration Weight:
GR-120: 50 g/100 g
GR-200: 100 g/200 g
GR-300: 200 g/300 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
13.2 lb (6.0 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GR-120	120 g	0.0001 g	0.0001 g	±0.0002 g	7.01 × 6.5 × 9.17 in (178 × 160 × 233 mm)	Ø 3.3 in (85 mm)	9.8 × 12.99 × 12.87 in (249 × 330 × 327 mm)	**97625**	$3,850.00
GR-200	210 g	0.0001 g	0.0001 g	±0.0002 g	7.01 × 6.5 × 9.17 in (178 × 160 × 233 mm)	Ø 3.3 in (85 mm)	9.8 × 12.99 × 12.87 in (249 × 330 × 327 mm)	**97626**	$4,372.50
GR-300	310 g	0.0001 g	0.0001 g	±0.0002 g	7.01 × 6.5 × 9.17 in (178 × 160 × 233 mm)	Ø 3.3 in (85 mm)	9.8 × 12.99 × 12.87 in (249 × 330 × 327 mm)	**97627**	$5,445.00

Options/Accessories

Part #	A&D Model #	Description	Price
97605	AD-100-2	Anti-theft device	$99.00
97606	AD-1653	Density determination kit	$742.50
97607	AD-1682	Rechargeable battery pack	$896.50
97608	AD-8920A	Universal remote display	$357.50
97609	AD-8922A	Remote controller	$841.50
97610	AD-1683	Static eliminator	$1,584.00
97612	SW:128	Foot switch	$110.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30
151247	AD-1688	Data logger	$407.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00



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HR-AZ/A Series

Standard Features

- Fast stabilization time
- One-touch calibration in HR-AZ models
- Compact size
- Weighing chamber
- Rotary sliding doors
- Removable breeze break with anti-static coating
- GLP/GMP/GCP/ISO compliant

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce (see technical manual for complete listing)

Operating Modes:
Weighing, percent weighing, parts counting, density

Power:
120/240 AC adapter

Stabilization Time:
3 seconds

Calibration Weight:
HR-100A and HR100AZ: 200 g
HR-150A and HR-150AZ: 150 g
HR-250A and HR-250AZ: 100 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less (no condensation)

Est. Weight:
8.6 lb (3.9 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
HR-100A	102 g	0.0001 g	0.1 mg	± 0.2 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	**150777**	$2,299.00
HR-100AZ	102 g	0.0001 g	0.1 mg	± 0.2 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	**150779**	$2,832.50
HR-150A	152 g	0.0001 g	0.1 mg	± 0.2 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	**150780**	$2,420.00
HR-150AZ	152 g	0.0001 g	0.1 mg	± 0.2 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	**150781**	$2,970.00
HR-250A	252 g	0.0001 g	<200 mg 0.1 mg / >200 mg 0.2 mg	± 0.3 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	**150782**	$2,640.00
HR-250AZ	252 g	0.0001 g	<200 mg 0.1 mg / >200 mg 0.2 mg	± 0.3 mg	Ø 3.6 in (90 mm)	7.8 × 11.6 × 12.3 in (198 × 294 × 313 mm)	**150783**	$3,162.50

Options/Accessories

Part#	A&D Model #	Description	Price
151247	AD-1688	Data logger	$407.00
98027*	FXi-02	Quick USB interface with cable	$115.50
98028*	FXi-08	Ethernet interface with WinCT Plus	$385.00
98029*	FXi-09	Rechargeable battery	$429.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30

**Only one option may be installed and factory installation required*



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Orion HR Series

Standard Features

- GLP/GMP/GCP/ISO compliant software outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- System diagnostics to alert the operator of abnormal weighing conditions
- RS-232C bidirectional interface (option for HR-60, HR-120 and HR-200; standard for HR-300i and HR-202i)
- Weighing chamber
- Liquid crystal display (LCD)
- WinCT communication tools software
- Underweigh hook

Note: Orion HR series does have internal adjustment weight

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce (see technical manual for complete listing)

Operating Modes:
Percentage, counting

Power:
120 VAC (AC adapter) 50/60 Hz (110, 220, 240 VAC adapter available by special order)

Stabilization Time:
Approx. 3.5 seconds

Calibration Weight:
300 g/200 g/100 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
Approx. 17.6 lb (8.0 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
HR-300i	320 g	0.0001 g	±0.0003 mg	0.0002 mg	6.45 × 5.84 × 9.88 in (164 × 149 × 251 mm)	Ø 3.6 in (90 mm)	8.54 × 17.4 × 12.24 in (217 × 442 × 316 mm)	**97642**	$4,185.00

Options/Accessories

Part#	A&D Model #	Description	Price
97605	AD-100-2	Anti-theft device	$99.00
97606	AD-1653	Density determination kit	$742.50
97607	AD-1682	Rechargeable battery pack	$896.50
97608	AD-8920A	Universal remote display	$357.50
97610	AD-1683	Static eliminator	$1,584.00
97609	AD-8922A	Remote controller	$841.50
97649	TB:648	AC adapter (120 V/220 V)	$58.30
151247	AD-1688	Data logger	$407.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00



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AD-4212A Series

Standard Features

- Comparator output (Hi/Ok/Lo) feature for manual or automatic operation as well as buzzer function
- GLP/GMP compliant software output
- Breeze break for maximum accuracy and fastest response
- Standard calibration weight
- Simple operator reference card provided
- Multi-weighing units
- Time and date clock function
- Data memory function for weighing, calibration, counting and Hi/Ok/Lo values
- Super Hybrid Sensor Technology (SHS)
- WinCT communication tools software
- RS-232 interface for connecting to printer or PC

Specifications

Weighing Units:
Milligram, ounce, carat, pennyweight, troy ounce, grain (see technical manual for complete listings)

Operating Modes:
Counting, percentage

Power:
120 VAC adapter, 11 VA

Stabilization Time:
AD-4212A-100, AD-4212B-102:
0 to 30 g approx. 1.3 seconds
30 to 110 g approx. 1.3 seconds

I/O Interface Comparator Output:
3 level output with buzzer

I/O Interface External Contact Input:
Re-zero and print

Calibration Weight:
50 g

Connection Cable:
Approx. 2 m (between weighing unit and display unit)

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
8.5 lb (4 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
AD-4212A-100	110 g	0.1 mg	0.15 g	±0.3 mg	2 × 2 in (50 × 50 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	**97654**	$7,150.00
AD-4212B-102	110 g	0.01 mg	0.15 g	±0.3 mg	2 × 2 in (50 × 50 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	**102925**	$11,055.00
AD-4212B-201	210 g	0.1 mg	1 mg	±2 mg	2 × 2 in (50 × 50 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	**102926**	$8,470.00
AD-4212B-301	310 g	0.1 mg	1 mg	±2 mg	2 × 2 in (50 × 50 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	**102927**	$9,405.00

Options/Accessories

Part #	A&D Model #	Description	Price
97672	AD-4212A-01	BCD output (factory installed, four month lead time)	$676.50
97674	AD-4212A-07	Extension cable, 3 m	$198.00
97675	AD-4212A-08	Ethernet interface with WinCT	$385.00
97676	AD-4212A-19	Stainless steel breeze break (200 g only)	$143.00



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Apollo GF Series

Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- External calibration
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Underweigh hook
- Optional glass breeze break

Specifications

Weighing Units:
Gram, ounce, pound, pound/ounce, troy ounce, grain (see technical manual for complete listing)

Operating Modes:
Weigh, count and percent

Power:
110/220 V VAC adapter

Stabilization Time:
Approx. 1 second (typical in FAST mode)

Calibration Weight:
GF-124A: 100 g
GF-224A: 200 g
GF-324A: 300 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Est. Weight:
11 lb (5.2 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GF-124A	120 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) *Includes Large Glass Breeze Break*	**200327**	$3,052.50
GF-224A	220 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) *Includes Large Glass Breeze Break*	**200328**	$3,327.50
GF-324A	320 g	0.0001 g	0.0002 g (300 g) 0.0001 g (200 g)	±0.0003 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) *Includes Large Glass Breeze Break*	**200329**	$3,932.50

Options/Accessories

Part #	A&D Model #	Description	Price
192662	GXA-03	RS-232C interface (D-sub 9-pin male)	$302.50
192663	GXA-04	Comparator output (requires 192667)	$286.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	$45.00
192671	GXA-06	Analog output (includes 192673)	$286.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	$599.50
192675	GXA-10	Large glass breeze break	$423.50
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	$192.50
192677	GXA-13	Density determination kit (for 1 mg models only)	$654.50
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	$1,837.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	$275.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	$269.50
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	$269.50
192682	GXA-24	USB host interface (USB A type)	$143.00
192683	GXA-25	External fanless ionizer (static eliminator)	$1,056.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	$225.50



Apollo GF-324A

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Apollo GX Series

Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- Internal adjustment weight
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Underweigh hook

Specifications

Weighing Units:
Gram, ounce, pound, carat, pennyweight, troy ounce, grain (see technical manual for complete listing)

Operating Modes:
Animal weighing, comparator function, ACAI counting function, percentage, density determination, statistical calculation

Power:
120 VAC adapter, Approx. 30 VA

Stabilization Time:
GX-124A: Approx. 1.5 seconds
GX-124AE: Approx. 2 seconds
GX-224A, GX-224AE: Approx. 1 second
GX-324A, GX-324AE: Approx. 2 seconds

Display Refresh Rate:
5 times/second, 10 times/second, 20 times/second

Calibration Weight:
GX-124A, GX-124AE: 100 g
GX-224A, GX-224AE, GX-324A, GX-324AE: 200 g

Ionizer (fanless):
AE versions come standard with built-in fanless ionizer with external touchless sensor

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
RH less than 85%
(no condensation)

Est. Weight:
18 lb (8 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GX-124A	120 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) *Includes Large Glass Breeze Break*	**200330**	$3,630.00
GX-124AE	120 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) *Includes Large Glass Breeze Break*	**200334**	$5,087.50
GX-224A	220 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) *Includes Large Glass Breeze Break*	**200332**	$3,905.00
GX-224AE	220 g	0.0001 g	0.0001 g	±0.0002 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) *Includes Large Glass Breeze Break*	**200335**	$5,307.50
GX-324A	320 g	0.0001 g	0.0002 g (300 g) 0.0001 g (200 g)	±0.0003 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) *Includes Large Glass Breeze Break*	**200333**	$4,372.50
GX-324AE	320 g	0.0001 g	0.0002 g (300 g) 0.0001 g (200 g)	±0.0003 g	8.78 in H (223 mm H)	Ø 3.6 in (90 mm)	10.2 × 14.1 × 13.1 in (259 × 358 × 332 mm) *Includes Large Glass Breeze Break*	**200336**	$5,692.50

Options/Accessories

Part#	A&D Model #	Description	Price
192662	GXA-03	RS-232C Interface (D-sub 9-pin male)	$302.50
192663	GXA-04	Comparator output (requires 192667)	$286.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	$45.00
192671	GXA-06	Analog output (includes 192673)	$286.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	$599.50
192675	GXA-10	Large glass breeze break	$423.50
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	$192.50
192677	GXA-13	Density determination kit (for 1 mg models only)	$654.50
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	$275.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	$269.50
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	$269.50
192682	GXA-24	USB host interface (USB A type)	$143.00
192683	GXA-25	External fanless ionizer (static eliminator)	$1,056.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	$225.50



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GF-P Series

Standard Features

- Pill-counting feature also complies with Handbook 44 requirements
- Fast, Super Hybrid Sensor (SHS) gives you the ultimate in response speed; just one second
- GLP/GMP/ISO compliance
- WinCT communication tools software included
- Weighing chamber
- Tough die-cast aluminum housing
- Removable stainless steel pan
- NTEP Certified and Pharmacopoeia approved
- IP54 splash proof operator keyboard protects against dust and spills, stainless steel weigh pan
- Data memory function
- Vacuum Fluorescent Display (VFD)
- RS-232 interface for connecting to printer or PC

Specifications

Weighing Units:
Gram, ounce, pound, pound/ounce, troy ounce, grain (see technical manual for complete listing)

Operating Modes:
Weigh, count and percent

Power:
110/220 V VAC adapter

Stabilization Time:
Approx. 1 second (typical in FAST mode)

Decimal Ounce:
GF-200P: 7.40755 × 0.00005 oz
GF-300P: 10.93493 × 0.00005 oz

Calibration Weight:
GF-200P, GF-300P: 200 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Est. Weight:
11 lb (5.2 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Approvals:
NTEP 04-077 e=0.01 g

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GF-200P	210 g	0.001 g	0.001 g	±0.002 g	3.6 in H (92 mm)	5 × 5 in (127 mm)	8.27 × 12.48 × 3.39 in (210 × 317 × 86 mm)	**97799**	$1,760.00
GF-300P	310 g	0.001 g	0.001 g	±0.002 g	3.6 in H (92 mm)	5 × 5 in (127 mm)	8.27 × 12.48 × 3.39 in (210 × 317 × 86 mm)	**97800**	$2,090.00

Options/Accessories

Part#	A&D Model #	Description	Price
102891	GX-02	USB option	$198.00
97697	GX-10	Glass breeze break for GF-200 and 300	$357.50
97703	AX:073003691-S	Protective in-use cover for GF-200/300 (each)	$29.15
97649	TB:648	AC adapter (120 V/220 V) standard with unit	$58.30



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FX-i Series

Standard Features

- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data
- RS-232 interface for connecting to printer or PC
- Response indicator function
- Weighing chamber
- Underweigh hook

OPTIONS

- Built-in rechargeable battery
- Quick USB interface (FXi-02) option
- LAN-Ethernet interface
- WinCT communication tools software

Specifications

Weighing Units:
Pound, carat, pennyweight, troy ounce, grain, pound/ounce (see technical manual for complete listings)

Operating Modes:
Weigh, count, percent, animal weighing, statistical, hold and comparator

Power:
120/240 VAC adapter, approx. 11 VA

Stabilization Time:
Approx. 1 second

Display Refresh Rate:
5 times/second, 10 times/second or 20 times/second

Calibration Weight:
FX-300i: 300 g
FX-1200i: 1,000 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less

Est. Weight:
8 lb (3.5 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Approvals:
NTEP 08-045A4
Measurement Canada AM-5692

Measurement Canada Approved

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
NTEP Certified								
FX-1200iN	1,220 g	0.01 g	0.01 g	±0.02 g	5.90 in (150 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**163641**	$1,474.00
Measurement Canada Approved								
FX-300iNC	320 g	0.001 g	0.001 g	±0.002 g	5.12 in (130 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**168077**	$1,562.00
FX-1200iNC	1,220 g	0.01 g	0.01 g	±0.02 g	5.90 in (150 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**168076**	$1,474.00

Options/Accessories

Part #	A&D Model #	Description	Price
98027*	FXi-02	Quick USB interface	$115.50
98028*	FXi-08	Ethernet interface with WinCT Plus software	$385.00
98029*	FXi-09	Built-in rechargeable battery	$429.00
98030	FXi-10	Small breeze break	$104.50
98031	FXi-11	Large breeze break	$176.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30
151247	AD-1688	Data logger	$407.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00

**Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.*



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EK-i Series

Standard Features

- Backlit weight display
- Remote zeroing
- Easy-to-install NiCAd battery option
- RS-232 interface for connecting to printer or PC

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, newton, decimal ounce, decimal pound

Operating Modes:
Counting, percentage

Power:
120 VAC adapter (optional Ni-MH battery pack)

Stabilization Time:
< 2 seconds

Display Type:
7 segment LCD with backlight (character height 16 mm)

Calibration Weight:
EK-600i: 400 g
EK-1200i: 1,200 g
EK-6000i: 6,000 g
EK-12i: 12 kg

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Humidity:
Less than 85% R.H. (non-condensing)

Est. Weight:
3.5 lb (1.5 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Approvals:
NTEP 04-019A3

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
NTEP Certified								
EK-600i	600 g	0.1 g	0.1 g	±0.1 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97752**	$682.00
EK-1200i	1,200 g	0.1 g	0.1 g	±0.1 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97753**	$676.50
EK-6000i	6,000 g	1 g	1 g	±1 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97758**	$731.50
EK-12i	12,000 g	1 g	1 g	±1 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97759**	$924.00

Options/Accessories

Part #	A&D Model #	Description	Price
97760	EKW-04i	Comparator/relay outputs/buzzer	$220.00
97761	EKW-07i	Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	$69.30
97762	EKW-09i	NiCAd battery pack	$280.50
97764	AX:3005824-5S	Protective dust cover (not in use)	$17.33
97605	AD-100-2	Anti-theft device	$99.00
97766	TB:662	AC adapter (120 V)	$52.25
97767	TB:164	AC adapter (240 V)	$75.90
151247	AD-1688	Data logger	$407.00



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EW-i Series

Standard Features

- Backlit weight display
- Remote zeroing
- Easy-to-install NiCAd battery option
- RS-232 interface for connecting to printer or PC
- Triple range

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce, decimal pound

Operating Mode:
Counting, percentage, comparator

Power:
AC adapter or Ni-MH battery pack (option)

Stabilization Time:
< 2 seconds+

Calibration Weight :
EW-1500i: 1,500 g
EW-12Ki: 12 kg

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Humidity:
Less than 85% R.H. (non-condensing)

Est. Weight:
3.5 lb (1.5 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Approvals:
NTEP 04-019A3

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
NTEP Certified								
EW-1500i	300 g / 600 g / 1,500 g	0.1 g / 0.2 g / 0.5 g	0.1 g / 0.2 g / 0.5 g	±0.1 g / ±0.2 g / ±0.5 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97769**	$550.00
EW-12Ki	3,000 g / 6,000 g / 12,000 g	1 g / 2 g / 5 g	1 g / 2 g / 5 g	±1 g / ±2 g / ±5 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97771**	$550.00

Options/Accessories

Part #	A&D Model #	Description	Price
97760	EKW-04i	Comparator/relay outputs/buzzer	$220.00
97761	EKW-07i	Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	$69.30
97762	EKW-09i	NiCAd battery pack	$280.50
97764	AX:3005824-5S	Protective dust cover (not in use)	$17.33
97605	AD-100-2	Anti-theft device	$99.00
97766	TB:662	AC adapter (120 V)	$52.25
97767	TB:164	AC adapter (240 V)	$75.90
151247	AD-1688	Data logger	$407.00



EW-1500i square pan

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Apollo GX Series

Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- Internal adjustment weight
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Underweigh hook

Specifications

Weighing Units:
Gram, ounce, pound, carat, pennyweight, troy ounce, grain (see technical manual for complete listing)

Operating Modes:
Animal weighing, comparator function, ACAI counting function, percentage, density determination, statistical calculation

Power:
120 VAC adapter, Approx. 30 VA

Stabilization Time:
Approx. 1 second

Display Refresh Rate:
5 times/second, 10 times/second or 20 times/second

Ionizer (fanless):
AE versions come standard with built-in fanless ionizer with external touchless sensor

Calibration Weight:
GX-203A, GX-303A: 200 g
GX-403A: 400 g
GX-603A: 600 g
GX-1003A, GX-1603A: 1000 g

Est. Weight:
18 lb (8 kg)

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
RH less than 85% (no condensation)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GX-203A	220 g	0.001 g	0.001 g	±0.002 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191691**	$2,145.00
GX-303A	320 g	0.001 g	0.001 g	±0.002 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191692**	$2,376.00
GX-403A	420 g	0.001 g	0.001 g	±0.002 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191693**	$2,519.00
GX-603A	620 g	0.001 g	0.001 g	±0.002 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191694**	$3,300.00
GX-1003A	1,100 g	0.001 g	0.001 g	±0.003 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191695**	$3,795.00
GX-1603A	1,620 g	0.001 g	0.001 g	±0.003 g	3 in (85 mm)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191696**	$4,317.50

Options/Accessories

Part #	A&D Model #	Description	Price
192662	GXA-03	RS-232C interface (D-sub 9-pin male)	$302.50
192663	GXA-04	Comparator output (requires 192667)	$286.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	$45.00
192671	GXA-06	Analog output	$286.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	$599.50
192675	GXA-10	Large glass breeze break	$423.50
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	$192.50
192677	GXA-13	Density determination kit (for 1 mg models only)	$654.50
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	$1,837.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	$275.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	$269.50
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	$269.50
192682	GXA-24	USB host interface (USB A type)	$143.00
192683	GXA-25	External fanless ionizer (static eliminator)	$1,056.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	$225.50



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Apollo GF Series

Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- External calibration
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Underweigh hook

Specifications

Weighing Units:
Pound, carat, pennyweight, troy ounce, grain, decimal ounce, pound/ounce

Operating Modes:
Counting, percentage

Power:
120/240 VAC adapter

Stabilization Time:
Approx. 1.5 seconds (typical in FAST mode)

Display Refresh Rate
5 times/second or 10 times/second

Calibration Weight:
GF-203A: 200 g
GF-303A: 300 g
GF-403A: 400 g
GF-603A: 600 g
GF-1003A: 1000 g
GF-1603A: 1500 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
RH less than 85% (no condensation)

Est. Weight:
18.3 lb (8.3 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
GF-203A	220 g	0.001 g	0.001 g	±0.002 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191707**	$1,738.00
GF-303A	320 g	0.001 g	0.001 g	±0.002 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191708**	$1,958.00
GF-403A	420 g	0.001 g	0.001 g	±0.003 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191709**	$2,123.00
GF-603A	620 g	0.001 g	0.001 g	±0.03 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191710**	$2,497.00
GF-1003A	1,100 g	0.001 g	0.001 g	±0.03 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191711**	$2,997.50
GF-1603A	1,620 g	0.001 g	0.002 g	±0.03 g	3 in H (85 mm H)	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191712**	$3,877.50

Options/Accessories

Part #	A&D Model #	Description	Price
192662	GXA-03	RS-232C interface (D-sub 9-pin male)	$302.50
192663	GXA-04	Comparator output (requires 192667)	$286.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	$45.00
192671	GXA-06	Analog output	$286.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	$599.50
192675	GXA-10	Large glass breeze break	$423.50
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	$192.50
192677	GXA-13	Density determination kit (for 1 mg models only)	$654.50
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	$1,837.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	$275.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	$269.50
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	$269.50
192682	GXA-24	USB host interface (USB A type)	$143.00
192683	GXA-25	External fanless ionizer (static eliminator)	$1,056.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	$225.50



Apollo GF-1003A

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FX-iWP Series Washdown

Standard Features

- Washdown IP65 rating
- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data.
- RS-232 interface for connecting to printer or PC
- Response indicator function
- Underweigh hook

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, grain, pound/ounce (see technical manual for complete listings)

Operating Modes:
Weigh, count, percent, animal weighing, statistical, hold and comparator

Power:
120/240 VAC adapter, approx. 11 VA

Stabilization Time:
Approx. 1 second

Display Refresh Rate:
5 times/second, 10 times/second or 20 times/second

Calibration Weight:
FX-120iWP: 100 g
FX-200iWP: 200 g
FX-300iWP: 300 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
8 lb (3.5 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
FX-120iWP	122 g	0.001 g	0.001 g	±0.002 g	Ø 5.12 in (130 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**102905**	$1,826.00
FX-200iWP	220 g	0.001 g	0.001 g	±0.002 g	Ø 5.12 in (130 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**102906**	$1,914.00
FX-300iWP	320 g	0.001 g	0.001 g	±0.002 g	Ø 5.12 in (130 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**102907**	$2,046.00

Options/Accessories

Part #	A&D Model #	Description	Price
98027*	FXi-02	Quick USB interface	$115.50
98028*	FXi-08	Ethernet interface with WinCT Plus software	$385.00
98029*	FXi-09	Built-in rechargeable battery	$429.00
98030	FXi-10	Small breeze break	$104.50
98031	FXi-11	Large breeze break	$176.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30

**Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.*



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FX-i Series

Standard Features

- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data.
- RS-232 interface for connecting to printer or PC
- Response indicator function
- Weighing chamber
- Underweigh hook

OPTIONS

- Built-in rechargeable battery
- Quick USB interface (FXi-02) option
- LAN-Ethernet interface
- WinCT communication tools software

Note: FXi NTEP and FXi models available by special order (internal adjustment weight)

Specifications

Weighing Units:
Pound, carat, pennyweight, troy ounce, grain, pound/ounce (see technical manual for complete listings)

Operating Modes:
Weigh, count, percent, animal weighing, statistical, hold and comparator

Power:
120/240 VAC adapter, approx. 11 VA

Stabilization Time:
Approx. 1 second

Display Refresh Rate:
5 times/second, 10 times/second or 20 times/second

Calibration Weight
FX-120i: 100 g
FX-200i: 200 g
FX-300i: 300 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
8 lb (3.5 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
FX-120i	122 g	0.001 g	0.001 g	±0.002 g	5.12 in (130 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**98021**	$1,386.00
FX-200i	220 g	0.001 g	0.001 g	±0.002 g	5.12 in (130 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**98022**	$1,441.00
FX-300i	320 g	0.001 g	0.001 g	±0.002 g	5.12 in (130 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**98023**	$1,496.00

Options/Accessories

Part #	A&D Model #	Description	Price
98027*	FXi-02	Quick USB interface	$115.50
98028*	FXi-08	Ethernet interface with WinCT Plus software	$385.00
98029*	FXi-09	Built-in rechargeable battery	$429.00
98030	FXi-10	Small breeze break	$104.50
98031	FXi-11	Large breeze break	$176.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30
151247	AD-1688	Data logger	$407.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00

**Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.*



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AD-4212A Series

Standard Features

- Comparator output (Hi/Ok/Lo) feature for manual or automatic operation as well as buzzer function
- GLP/GMP compliant software output
- Breeze break for maximum accuracy and fastest response
- Standard calibration weight
- Simple operator reference card provided
- Multi-weighing units
- Time and date clock function
- Data memory function for weighing, calibration, counting and Hi/Ok/Lo values
- Super Hybrid Sensor Technology (SHS)
- WinCT communication tools software
- RS-232 interface for connecting to printer or PC

Specifications

Weighing Units:
Milligram, ounce, carat, pennyweight, troy ounce, grain (see technical manual for complete listings)

Operating Modes:
Counting, percentage

Power:
120 VAC adapter, 11 VA

Stabilization Time:
AD-4212A-200, AD-4212B-201: 30 to 210 g approx. 1.0 second
AD-4212B-301: 30 to 210 g approx. 1.0 second
AD-4212A-600: 30 to 610 g approx. 1.1 seconds
AD-4212A-1000: 30 to 1100 g approx. 1.1 seconds

I/O Interface Comparator Output:
3 level output with buzzer

I/O Interface External Contact Input:
Re-zero and print

Calibration Weight (OIML F1) (OPT):
AD-4212A-200, AD-4212B-201, AD-4212B-301: 100 g
AD-4212A-600, AD-4212A-1000: 200 g

Connection Cable:
Approx. 2 m (between weighing unit and display unit)

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
8.5 lb (4 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
AD-4212A-200	210 g	1 mg	1 mg	±2 mg	2 × 2 in (50 × 50 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	**97655**	$6,297.50
AD-4212A-600	610 g	1 mg	1 mg	±3 mg	2.8 × 2.8 in (70 × 70 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	**97656**	$6,930.00
AD-4212A-1000	1,100 g	1 mg	1 mg	±3 mg	2.8 × 2.8 in (70 × 70 mm)	3.2 × 9.1 × 3.5 in (80 × 230 × 90 mm)	**97657**	$7,205.00

Options/Accessories

Part #	A&D Model #	Description	Price
97672	AD-4212A-01	BCD output (factory installed, four month lead time)	$676.50
97674	AD-4212A-07	Extension cable, 3 m	$198.00
97675	AD-4212A-08	Ethernet interface with WinCT	$385.00
97676	AD-4212A-19	Stainless steel breeze break (200 g only)	$143.00



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FX-i Series

Standard Features

- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data.
- RS-232 interface for connecting to printer or PC
- Response indicator function
- Weighing chamber
- Underweigh hook

OPTIONS

- Built-in rechargeable battery
- Quick USB interface (FXi-02) option
- LAN-Ethernet interface
- WinCT communication tools software

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, grain, pound, ounce, (see technical manual for complete listings)

Operating Modes:
Weigh, count, percent, animal weighing, statistical, hold and comparator

Power:
120/240 VAC adapter, approx. 11 VA

Stabilization Time:
Approx. 1 second

Display Refresh Rate
5 times/second, 10 times/second or 20 times/second

Calibration Weight:
FX-1200i: 1,000 g
FX-2000i: 2,000 g
FX-3000i: 3,000 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less (no condensation)

Est. Weight:
8 lb (3.5 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
FX-1200i	1,220 g	0.01 g	0.01 g	±0.02 g	5.90 in (150 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**98024**	$1,419.00
FX-2000i	2,200 g	0.01 g	0.01 g	±0.02 g	5.90 in (150 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**98025**	$1,485.00
FX-3000i	3,200 g	0.01 g	0.01 g	±0.02 g	5.90 in (150 mm)	7.6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**98026**	$1,551.00

Options/Accessories

Part #	A&D Model #	Description	Price
98027*	FXi-02	Quick USB interface	$115.50
98028*	FXi-08	Ethernet interface with WinCT Plus software	$385.00
98029*	FXi-09	Built-in rechargeable battery	$429.00
98030	FXi-10	Small breeze break	$104.50
98031	FXi-11	Large breeze break	$176.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30
151247	AD-1688	Data logger	$407.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00

**Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.*



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Apollo GX Series

Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- Internal adjustment weight
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Underweigh hook

Specifications

Weighing Units:
Gram, ounce, pound, carat, pennyweight, troy ounce, grain (see technical manual for complete listing)

Operating Modes:
Animal weighing, comparator function, ACAI counting function, percentage, density determination, statistical calculation

Power:
120 VAC adapter, approx. 30 VA

Stabilization Time:
Approx. 1 sec.

Display Refresh Rate:
5 times/second, 10 times/second or 20 times/second

Calibration Weight:
GX-2002A, GX-3002A: 2,000 g
GX-4002A: 4000 g
GX-6001A, GX-6002A: 5,000 g
GX-10001A, GX-10002A: 10,000 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
RH less than 85%
(no condensation)

Est. Weight:
18 lb (8 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing Standard Policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
GX-2002A	2,200 g	0.01 g	0.01 g	±0.02 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191697**	$2,376.00
GX-3002A	3,200 g	0.01 g	0.01 g	±0.02 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191700**	$2,832.50
GX-4002A	4,200 g	0.01 g	0.01 g	±0.02 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191701**	$2,970.00
GX-6001A	6,200 g	0.1 g	0.1 g	±0.01 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191705**	$2,629.00
GX-6002A	6,200 g	0.01 g	0.01 g	±0.03 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191702**	$3,465.00
GX-10001A	10,200 g	0.1 g	0.1 g	±0.01 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191706**	$2,596.00
GX-10002A	10,200 g	0.01 g	0.02 g	±0.03 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191704**	$4,647.50

Options/Accessories

Part#	A&D Model #	Description	Price
192662	GXA-03	RS-232C Interface (D-sub 9-pin male)	$302.50
192663	GXA-04	Comparator output (requires 192667)	$286.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	$45.00
192671	GXA-06	Analog output (includes 192673)	$286.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	$599.50
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	$192.50
192677	GXA-13	Density determination kit (for 1 mg models only)	$654.50
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	$1,837.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	$275.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	$269.50
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	$269.50
192682	GXA-24	USB host interface (USB A type)	$143.00
192683	GXA-25	External fanless ionizer (static eliminator)	$1,056.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	$225.50



Apollo GX-3002A

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Apollo GF Series

Standard Features

- Electronically controlled load (ECL) self-diagnostic before internal repeatability test without an external weight in less than 1.5 minutes
- External calibration
- Impact shock detection
- Flow rate display
- RS-232 interface for connecting to printer or PC
- Password protection and anti-theft security slot
- GLP/GMP/ISO compliant to either AD-8127 printer or computer
- Transmits date, time, ID number, serial number, model, manufacturer and calibration data
- Rechargeable battery option for portability
- Super Hybrid Sensor Technology (SHS)
- Reverse backlit LCD display
- Optional glass breeze break
- Underweigh hook

Specifications

Weighing Units:
Pound, carat, pennyweight, troy ounce, grain, decimal ounce, pound/ounce

Operating Modes:
Counting, percentage

Power:
120/240 VAC adapter

Stabilization Time:
Approx. 1.5 seconds (typical in FAST mode)

Display Refresh Rate:
5 times/second or 10 times/second

Calibration Weight:
GF-1202A: 1 kg
GF-2002A: 2 kg
GF-3002A: 3 kg
GF-4002A: 4 kg
GF-6002A: 6 kg
GF-6001A: 6 kg
GF-10001A: 10 kg
GF-10002A: 10 kg

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
RH less than 85% (no condensation)

Est. Weight:
18.3 lb (8.3 kg)

Warranty:
Five-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
GF-1202A	1,220 g	0.01 g	0.01 g	±0.02 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191713**	$1,760.00
GF-2002A	2,200 g	0.01 g	0.01 g	±0.02 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191714**	$1,804.00
GF-3002A	3,200 g	0.01 g	0.01 g	±0.02 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191715**	$1,870.00
GF-4002A	4,200 g	0.01 g	0.01 g	±0.02 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191716**	$2,398.00
GF-6002A	6,200 g	0.01 g	0.01 g	±0.03 g	5 × 5 in (128 × 128 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191717**	$2,942.50
GF-6001A	6,200 g	0.1 g	0.1 g	±0.1 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**192486**	$1,991.00
GF-10001A	10,200 g	0.1 g	0.1 g	±0.1 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**192487**	$2,079.00
GF-10002A	10,200 g	0.01 g	0.1 g	±0.03 g	6.5 × 6.5 in (165 × 165 mm)	8.3 × 12.5 × 3.7 in (212 × 317 × 93 mm)	**191718**	$3,602.50

Options/Accessories

Part #	A&D Model #	Description	Price
192662	GXA-03	RS-232C interface (D-sub 9-pin male)	$302.50
192663	GXA-04	Comparator output (requires 192667)	$286.00
192667	AX-K05692	MiniDIN 8-pin male for GXA-04	$45.00
192671	GXA-06	Analog output (includes 192673)	$286.00
192674	GXA-09	Internal rechargeable battery (must be factory installed)	$599.50
192675	GXA-10	Large glass breeze break	$423.50
192676	GXA-12	Animal weighing pan (for models of 320 g capacity or higher)	$192.50
192677	GXA-13	Density determination kit (for 1 mg models only)	$654.50
192678	GXA-17	Large breeze break with built-in fanless ionizer (static eliminator)	$1,837.00
192679	GXA-23-PRINT	External key input interface for SW:137-PRINT foot switch	$275.00
192680	GXA-23-RZERO	External key input interface for SW:137-REZERo foot switch	$269.50
192681	GXA-23-PLUG	External key input interface for AX-T-314A-S plug	$269.50
192682	GXA-24	USB host interface (USB A type)	$143.00
192683	GXA-25	External fanless ionizer (static eliminator)	$1,056.00
192684	GXA-26	External IR switch (MiniDIN 4-pin male)	$225.50



Apollo GF-3002A

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FX-iWP Series Washdown

Standard Features

- Washdown IP65 rating
- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data.
- RS-232 interface for connecting to printer or PC
- Response indicator function
- Underweigh hook

Specifications

Weighing Units:
Pound, carat, pennyweight, troy ounce, grain, pound/ounce

Operating Modes:
Weigh, count, percent, animal weighing, statistical, hold and comparator

Power:
120/240 VAC adapter, approx. 11 VA

Stabilization Time:
Approx. 1 second

Display Refresh Rate:
5 times/second, 10 times/second or 20 times/second

Calibration Weight:
FX-120iWP: 100 g
FX-200iWP: 200 g
FX-300iWP: 300 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
85% RH or less
(no condensation)

Est. Weight:
8 lb (3.5 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
FX-1200iWP	1,220 g	0.01 g	0.01 g	±0.02 g	Ø 5.90 in (150 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**102908**	$1,815.00
FX-2000iWP	2,200 g	0.01 g	0.01 g	±0.02 g	Ø 5.90 in (150 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**102909**	$1,914.00
FX-3000iWP	3,200 g	0.01 g	0.01 g	±0.02 g	Ø 5.90 in (150 mm)	6 × 10.3 × 3.3 in (193 × 263 × 85 mm)	**102910**	$2,035.00

Options/Accessories

Part #	A&D Model #	Description	Price
98027*	FXi-02	Quick USB interface	$115.50
98028*	FXi-08	Ethernet interface with WinCT Plus software	$385.00
98029*	FXi-09	Built-in rechargeable battery	$429.00
98030	FXi-10	Small breeze break	$104.50
98031	FXi-11	Large breeze break	$176.00
97649	TB:648	AC adapter (120 V/220 V)	$58.30

**Options FXi-02/FXi-08 and FXi-09 cannot be combined and are factory installed only.*



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EJ Newton Series

Standard Features

- Easy-to-read seven segment LCD display with backlight
- 10 units of measurement



EJ-200



EJ-2000

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce, decimal pound (see technical manual for complete listing)

Operating Modes:
Specific gravity, counting, percentage, checkweighing

Power:
Adapter:
120 VAC included (230 VAC optional)
Battery:
70 hours operation (four AA not included)

Stabilization Time:
< 2 seconds

Display Type:
Seven segment LCD with backlight (character height 16 mm)

Calibration Weight:
EJ-123, EJ-120: 100 g
EJ-200: 200 g
EJ-300: 300 g
EJ-410: 400 g
EJ-610: 600 g
EJ-1500: 1,500 g
EJ-2000: 2,000 g
EJ-3000: 3,000 g
EJ-4100: 4,000 g
EJ-6100: 6,000 g

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Humidity:
Less than 85% RH (no condensation)

Est. Weight:
EJ-123, EJ-120, EJ-200, EJ-300, EJ-410, EJ-610: 850 g
EJ-1500, EJ-2000, EJ-3000, EJ-4100, EJ-6100: 1,100 g

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
EJ-123	120 g	0.001 g	0.003 g	0.003 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**163274**	$649.00
EJ-120	120 g	0.01 g	0.01 g	±0.01 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**112410**	$341.00
EJ-200	210 g	0.01 g	0.01 g	±0.01 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**112411**	$429.00
EJ-300	310 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**112412**	$506.00
EJ-410	410 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**112413**	$550.00
EJ-610	610 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**112414**	$715.00
EJ-1500	1,500 g	0.1 g	0.1 g	±0.1 g	5 × 5.5 in (127 × 140 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**112415**	$341.00
EJ-2000	2,100 g	0.1 g	0.1 g	±0.1 g	5 × 5.5 in (127 × 140 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**112416**	$418.00
EJ-3000	3,100 g	0.1 g	0.1 g	±0.2 g	5 × 5.5 in (127 × 140 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**112417**	$511.50
EJ-4100	4,100 g	0.1 g	0.1 g	±0.2 g	5 × 5.5 in (127 × 140 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**112418**	$572.00
EJ-6100	6,100 g	0.1 g	0.1 g	±0.2 g	5 × 5.5 in (127 × 140 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**112419**	$654.50

Options/Accessories

Part #	A&D Model #	Description	Price
112426	EJ-02	USB interface with cable	$115.50
112427	EJ-03	RS-232 interface with cable	$104.50
112428	EJ-07	Underhook for EJ-3000, EJ-4100 and EJ-6100	$92.40
112429	EJ-08	Underhook for EJ-1500 and EJ-2000	$92.40
112430	EJ-11	Breeze break	$92.40
112431	EJ-12	Carrying case	$86.90
112432	EJ-13	Density determination kit	$104.50
97766	TB:662	AC adapter, 120 V	$52.25
97767	TB:164	AC adapter, 220 V	$75.90
151247	AD-1688	Data logger	$407.00

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EK-i Series

Standard Features

- Backlit weight display
- Remote zeroing
- Easy-to-install NiCAd battery option
- RS-232 interface for connecting to printer or PC

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, newton, decimal ounce, decimal pound

Operating Modes:
Counting, percentage

Power:
120 VAC adapter (optional Ni-MH battery pack)

Stabilization Time:
< 2 seconds

Display Type:
Seven segment LCD with backlight (character height 16 mm)

Calibration Weight:
EK-120i: 120 g
EK-200i: 200 g
EK-300i: 300 g
EK-410i: 400 g
EK-610i: 400 g
EK-2000i: 2,000 g
EK-3000i: 3,000 g
EK-4100i: 4,000 g
EK-6100i: 6,000 g

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Humidity:
Less than 85% RH (non-condensing)

Est. Weight:
3.5 lb (1.5 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
EK-120i	120 g	0.01 g	0.01 g	±0.01 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97747**	$654.50
EK-200i	200 g	0.01 g	0.01 g	±0.01 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97748**	$704.00
EK-300i	300 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97749**	$731.50
EK-410i	400 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97750**	$825.00
EK-610i	600 g	0.01 g	0.01 g	±0.02 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97751**	$968.00
EK-2000i	2,000 g	0.1 g	0.1 g	±0.1 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97754**	$709.50
EK-3000i	3,000 g	0.1 g	0.1 g	±0.2 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97755**	$770.00
EK-4100i	4,000 g	0.1 g	0.1 g	±0.2 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97756**	$918.50
EK-6100i	6,000 g	0.1 g	0.1 g	±0.2 g	5.2 × 6.7 in (133 × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97757**	$1,144.00

Options/Accessories

Part #	A&D Model #	Description	Price
97760	EKW-04i	Comparator/relay outputs/buzzer	$220.00
97761	EKW-07i	Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	$69.30
97762	EKW-09i	NiCAd battery pack	$280.50
97764	AX:3005824-5S	Protective dust cover (not in use)	$17.33
97605	AD-100-2	Anti-theft device	$99.00
97766	TB:662	AC adapter (120 V)	$52.25
97767	TB:164	AC adapter (240 V)	$75.90
151247	AD-1688	Data logger	$407.00



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EW-i Series

Standard Features

- Backlit weight display
- Remote zeroing
- Easy-to-install NiCAd battery option
- RS-232 interface for connecting to printer or PC
- Triple range

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, decimal ounce, decimal pound

Operating Modes:
Counting, percentage, comparator

Power:
AC adapter or Ni-MH battery pack (option)

Stabilization Time:
< 2 seconds

Calibration Weight:
150 g

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Humidity:
Less than 85% RH (no condensation)

Est. Weight:
3.5 lb (1.5 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
EW-150i	30 g / 60 g / 150 g	0.01 g / 0.02 g / 0.1 g	0.01 g / 0.02 g / 0.05 g	±0.01 g / ±0.02 g / ±0.05 g	Ø 4.3 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**97768**	$550.00

Options/Accessories

Part #	A&D Model #	Description	Price
97760	EKW-04i	Comparator/relay outputs/buzzer	$220.00
97761	EKW-07i	Underhook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	$69.30
97762	EKW-09i	NiCAd battery pack	$280.50
97764	AX:3005824-5S	Protective dust cover (not in use)	$17.33
97605	AD-100-2	Anti-theft device	$99.00
97766	TB:662	AC adapter (120 V)	$52.25
97767	TB:164	AC adapter (240 V)	$75.90
151247	AD-1688	Data logger	$407.00



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GX-M Series

Standard Features

- Internal adjustment weight
- Auto environmental compensation
- IP65/NEMA Type 4
- RS-232 interface for connecting to printer or PC
- Data memory function
- Quick reference operation card
- Time and date
- Vacuum Fluorescent Display (VFD)
- Underweigh hook

Specifications

Weighing Units:
Pound, carat, pennyweight, troy ounce, grain, decimal ounce, pound/ounce

Operating Modes:
Counting, percentage

Power:
120/240 VAC adapter

Stabilization Time:
Approx. 1.5 seconds

Calibration Weight:
GX-8202M/MD: 2 kg to 8 kg
GX-10202M: 2 kg to 10 kg
GX-12001M: 5 kg, 10 kg
GX-22001M: 5 kg, 10 kg, 20 kg
GX-32001M/MD: 5 kg, 10 kg, 20 kg, 30 kg

Temperature:
Operating:
41 °F to 104 °F (-5 °C to 40 °C)

Est. Weight:
18.3 lb (8.3 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
GX-8202M	8.2 kg	0.01 g	0.01 g	±0.03 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207408**	$4,565.00
GX-8202MD	2.2 kg / 8.2 kg	0.01 g / 0.1 g	0.01 g / 0.05 g	±0.02 g / ±0.1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207409**	$3,987.50
GX-10202M	10.2 kg	0.01 g	0.01 g	±0.03 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207410**	$4,895.00
GX-12001M	12.2 kg	0.1 g	0.1 g	±0.2 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207411**	$4,152.50
GX-22001M	22.2 kg	0.1 g	0.1 g	±0.2 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207412**	$4,482.50
GX-32001M	32.2 kg	0.1 g	0.1 g	±0.2 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207413**	$5,170.00
GX-32001MD	6.2 kg / 32.2 kg	0.1 g/1 g	0.1 g / 0.5 g	±0.2 g / ±1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207414**	$4,015.00

Options/Accessories

Part #	A&D Model #	Description	Price
207431	GX-04K*	Comparator/output and RS-232C/20 mA interface	$566.50
207432	GX-06K*	Analog output/20 mA interface	$665.50
97784	GX-07K**	Waterproof cable for standard RS-232C	$407.00
102899	GXK-12	Animal weighing pan	$1,094.50
102898	GXK-31	Draft shield	$154.00
97605	AD-100-2	Anti-theft device	$99.00
97785	AX:073007197A	Protective in-use cover	$29.15
97649	TB:648	AC adapter (120 V/220 V)	$58.30
151247	AD-1688	Data logger	$407.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00

**GX-04K, GX-06K, replace standard RS-232C and cannot be used at the same time.*
IP65 rating does not apply when the GX-04K or the GX-06K is installed.
***Use the GX-07K optional waterproof RS-232C cable, in order to use the standard RS-232 interface for water and dust proof (IP65).*



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GF-M Series

Standard Features

- IP65/NEMA Type 4
- RS-232 interface for connecting to printer or PC
- Quick reference operation card
- Time and date
- Vacuum fluorescent display (VFD)
- Interval time setting
- Underweigh hook

Specifications

Weighing Units:
Pound, carat, pennyweight, troy ounce, grain, decimal ounce, pound/ounce operating modes, counting, percentage

Power:
120/240 VAC adapter

Stabilization Time:
Approx. 1.5 seconds (typical in FAST mode)

Display Refresh Rate:
5 times/second or
10 times/second

Calibration Weight:
GF-8202M/MD: 2 to 8 kg
GF-10202M: 2 to 10 kg
GF-12001M: 5 kg, 10 kg
GF-22001M: 5 kg, 10 kg, 20 kg
GF-32001M/MD: 5 kg, 10 kg, 20 kg, 30 kg

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
RH less than 85%
(no condensation)

Est. Weight:
18.3 lb (8.3 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
GF-8202M	8.2 kg	0.01 g	0.01 g	±0.03 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207415**	$4,345.00
GF-8202MD	2.2 kg/8.2 kg	0.01 g/0.1 g	0.01 g/0.05 g	±0.02 g/±0.1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207416**	$3,685.00
GF-10202M	10.2 kg	0.01 g	0.01 g	±0.03 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207417**	$4,675.00
GF-12001M	12.2 kg	0.1 g	0.1 g	±0.2 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207418**	$3,932.50
GF-22001M	22.2 kg	0.1 g	±0.2 g	0.1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207419**	$4,180.00
GF-32001M	32.2 kg	0.1 g	±0.2 g	0.1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207420**	$4,895.00
GF-32001MD	6.2/32.2 kg	0.1/1 g	±0.5 g/0.1 g	0.2 g/1 g	10.62 × 8.26 in (270 × 210 mm)	11.81 × 13.98 × 4.37 in (300 × 355 × 111 mm)	**207422**	$3,685.00

Options/Accessories

Part#	A&D Model#	Description	Price
207431	GX-04K*	Comparator/output and RS-232C/20 mA interface	$566.50
207432	GX-06K*	Analog output/20 mA interface	$665.50
97784	GX-07K**	Waterproof cable for standard RS-232C	$407.00
102899	GXK-12	Animal weighing pan	$1,094.50
102898	GXK-31	Draft shield	$154.00
97605	AD-100-2	Anti-theft device	$99.00
97785	AX:073007197A	Protective in-use cover	$29.15
97649	TB:648	AC adapter (120 V/220 V)	$58.30
151247	AD-1688	Data logger	$407.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00

**GX-04K, GX-06K, replace standard RS-232C and cannot be used at the same time. IP65 rating does not apply when the GX-04K or the GX-06K is installed.*

***Use the GX-07K optional waterproof RS-232C cable, in order to use the standard RS-232 interface for water and dust proof (IP65).*



GX-L Series

Standard Features

- IP65 protecton
- Internal adjustment weight with manual, interval or auto-environmental compensation
- RS-232 interface for connecting to printer or PC
- Data-collection software
- Auto re-zero function
- Flexible display positions
- Time and date
- Bright blue, fluorescent display
- Adjustable swing arm display
- Die-cast aluminum body with stainless weighing pan
- Detached digital weight indicator (KS models only)

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, grain, decimal ounce, decimal pound, pound/ounce

Operating Modes:
Counting, percentage

Power:
Approx. 30 VA (supplied to the AC adapter)

Stabilization Time:
Approx. 1.5 seconds (typical in FAST mode)

Height with Column:
652 mm

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
RH less than 85% (no condensation)

Est. Weight:
Approx. 39.7 lb (18 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
GX-12001L	12 kg	0.1 g	0.1 g	±0.2 g	15.2 × 13.5 in (386 × 343 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	**227355**	$4,554.00
GX-22001L	22 kg	0.1 g	0.1 g	±0.2 g	15.2 × 13.5 in (386 × 343 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	**227356**	$5,021.50
GX-32001LD	6.2 kg	0.1 g	0.1 g	±0.2 g	15.2 × 13.5 in (386 × 343 mm)	13.5 × 17.4 × 5.5 in (344 × 442 × 139 mm)	**227357**	$4,152.50
GX-42001L	42 kg	0.5 g	0.5 g	±1 g	15.2 × 13.5 in (386 × 343 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	**227358**	$5,544.00
GX-102000L	102 kg	1 g	1 g	±2 g	15.2 × 13.5 in (386 × 343 mm)	14.6 × 24.2 × 5.1 in (372 × 615 × 130 mm)	**227359**	$7,166.50

Options/Accessories

Part #	A&D Model #	Description	Price
97607	AD-1682	Rechargeable battery pack	$896.50
97608	AD-8920	Universal remote display	$357.50
97813	GP-04	Comparator output with buzzer	$335.00
97814	GP-06	Analog output (replaces standard RS-232C)	$995.00
97815	GP-07	GP extension cable (factory installed 120 day lead time)	$407.00
97816	GP-20	Underhook GP-12 kg thru 40 kg	$247.50
97817	GP-21	Underhook GP-60 kg thru 102 kg	$247.50
97605	AD-100-2	Anti-theft device	$99.00
97820	07:3004753	Protective in-use cover	$34.65
97613	TB:136	AC adapter (120 V) standard with unit	$52.25
97614	TB:137	AC adapter (220 V)	$75.90
97609	AD-8922	Remote controller	$841.50
102904	GP-12	Animal weighing pan	$2,167.00
151247	AD-1688	Data logger	$407.00
97612	SW:128	Foot switch	$110.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00



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EK-AEP Series

Standard Features

- LCD display
- ATEX and FM approved (Class I, Division 1, groups C and D)
- Optical data output
- 200 hours of battery operation*
- Auto power off
- Counting/Percentage/Specific Gravity modes
- Optical data output

Specifications

Weighing Units:
Carat, pennyweight, troy ounce, newton, decimal ounce, decimal pound

Operating Modes:
Counting, percentage, specific gravity

Power:
Four AA batteries*

Stabilization Time:
< 2 seconds

Calibration Weight:
EK-300AEP: 300 g
EK-3000AEP: 3,000 g
EK-12KAEP: 10 kg

**(Battery life determined with backlight off with four AA batteries. The EK-EAP must be used with the following to maintain FM integrity: Duracell® AA alkaline MN 1500 LR6, Energizer® AA E91 alkaline LR6 AM3, Panasonic® AA alkaline LR6 (XJ). Do not mix type or new/used batteries.)*

Temperature:
Operating:
32 °F to 104 °F (0 °C to 40 °C)

Est. Weight:
3.5 lb (1.5 kg)

Warranty:
Two-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Approvals:
cFMus
ATEX

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
EK-300AEP	300 g	0.01 g	0.01 g	±0.02 g	Ø4.33 in (110 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**199565**	$2,068.00
EK-3000AEP	3,000 g	0.1 g	0.1 g	±0.2 g	5.24 in × 6.69 in (133 mm × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**199566**	$2,189.00
EK-12KAEP	12,000 g	1 g	1 g	±1 g	5.24 in × 6.69 in (133 mm × 170 mm)	7.5 × 8.6 × 2.2 in (190 × 218 × 55 mm)	**199567**	$2,442.00

Options/Accessories

Part #	A&D Model #	Description	Price
177696	EJ-12	Carrying case	$86.90
202077	AD-1611	Safe area serial output module (requires a fiber-optic cable)	$577.50
202074	AX-KS5456-010	Fiber-optic cable (10 m)	$396.00
202075	AX-KS5456-030	Fiber-optic cable (30 m)	$704.00
202076	AX-KS5456-060	Fiber-optic cable (60 m)	$1,034.00



EK-300AEP



EK-3000AEP

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MS-70/MX-50/MF-50/ML-50

Standard Features

- Fast and uniform heating with halogen lamp and uniquely designed (secondary radiation assist) SRA filter
- WinCT communication tools software
- Sodium tartrate dihydrate is provided as a stable moisture content for accuracy checks of the analyzer
- Vacuum fluorescent display (VFD)
- Glass window for heating check and easy cleaning
- Self-check function
- Quick reference card
- RS-232 interface for connecting to printer or PC
- GLP/GMP/GCP/ISO compliant with time and date, ID, calibration data and check record outputs

Specifications

Operating Modes:
Wet base, dry base, solid content, ratio

Measurement Programs:
Standard, automatic, timer, manual

Power:
120 VAC

Drying Temperature:
MS-70: 30 °C to 200 °C
MX-50, MF-50, ML-50:
50 °C to 200 °C (1 ° increment)

Measurement Program Memories:
MS-70, MX50: 20 sets
MF-50: 10 sets
ML-50: 5 sets

Data Memory:
MS-70, MX-50: 100
MF-50: 50
ML-50: 30

Moisture Content Display:
MS-70: 0.001%/0.01%/ 0.1%
MX-50: 0.01%/0.1%
MF-50: 0.05%/0.1%/1%
ML-50: 0.1%/1%

Moisture Content Accuracy
Over 1 g:
MS-70: 0.05%
MX-50: 0.10%
MF-50: 0.20%
ML-50: 0.50%
Over 5 g:
MS-70: 0.01%
MX-50: 0.02%
MF-50: 0.05%
ML-50: 0.10%

Temperature:
Operating:
40 °F to 104 °F (5 °C to 40 °C)

Heating Technology:
Halogen lamp (straight type, 400 watt max, 5,000 hours)

Est. Weight:
13 lb (5.9 kg)

Warranty:
Five-year limited

Return Policy:
A&D Weighing standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
MS-70	71 g	0.0001 g	Ø 2.16 in (85 mm)	8.46 × 12.6 × 6.8 in (215 × 320 × 173 mm)	**97821**	$7,342.50
MX-50	51 g	0.001 g	Ø 2.16 in (85 mm)	8.46 × 12.6 × 6.8 in (215 × 320 × 173 mm)	**97822**	$4,565.00
MF-50	51 g	0.002 g	Ø 2.16 in (85 mm)	8.46 × 12.6 × 6.8 in (215 × 320 × 173 mm)	**97823**	$3,685.00
ML-50	51 g	0.005 g	Ø 2.16 in (85 mm)	8.46 × 12.6 × 6.8 in (215 × 320 × 173 mm)	**112408**	$3,107.50

Options/Accessories

Part #	A&D Model #	Description	Price
97824	AX-31	Sample pans (washable, 100 each)	$132.00
97825	AX-32-2	Glass fiber sheets (100 each)	$69.30
97826	AX-33	Sodium tartrate dehydrate test samples (30 × 12 g)	$110.00
97827	AX-34	Halogen lamp (replacement)	$86.90
97828	AX-35	Pan handles (2 each)	$34.65
97829	AX-36	Tweezers (2 each)	$23.10
97830	AX-37	Spoons (2 each)	$29.15
97831	AX-38	Protective in-use covers (5 each)	$58.30
97832	AX-39	Dust cover	$23.10
97833	AX-42	WinCT Moisture (standard for MS-70 and MX-50, option for MF-50)	$313.50
97834	AD-1700-20G	Calibration mass (20 g)	$143.00
97837	AX-43	Temperature calibrator (MS-70 and MX-50 only)	$594.00
151247	AD-1688	Data logger	$407.00
196128	AD-8127	Impact dot matrix, statistical printer, includes cable	$1,133.00



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AD-1683

Standard Features

- Requires no high-voltage wiring
- Eliminates static charges
- Little or no reverse charge is induced by irradiated ions
- Static elimination in narrow and remote places
- Suited for static elimination in narrow and remote places because of its lengthy ion irradiation distance
- Produces a small amount of ozone
- Current limiting circuit incorporated in the ion generating electrode
- No swing in surface potential of the charged object

Specifications

Power:
100 to 240 VAC, 50/60 Hz, 1.5 VAC

Elimination Range:
Distance: 10 to 30 cm from electrode
Area: 30 × 30 cm from electrode

Static Elimination Method:
DC corona discharge DUAL-DC

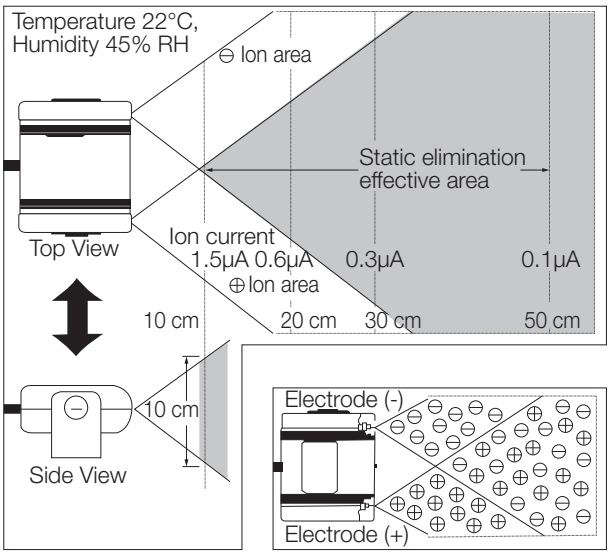
Static Eliminating Electrode:
Tungsten emitter

Est. Weight:
300 g

Warranty:
One-year limited

Model	Elimination Range	Static Elimination Method	Static Eliminating Electrode	Environmental Conditions	Weight	Part #	List Price
AD-1683	Distance: 10 cm to 30 cm from the electrode area: 30 cm × 30 cm	DC corona discharge DUAL-DC	Tungsten emitter	-5 °C to 40 °C, 35% to 85% RH (no condensation)	300 g	**97610**	$1,584.00

(Below) Example of AD-1683 installation showing static elimination area and an example of ion generation.





BALANCES A&D WEIGHING

Explorer® Series

Standard Features

- Intuitive SmarText™ software
- Four programmable touchless sensors
- Weighing chamber
- Color touchscreen display
- Memory for up to 99 items
- Real-time clock for GLP/GMP data collection
- Audible stability alert
- Autocal automatic calibration
- EX225D/AD and EX225/AD
- Includes ionizer and auto doors

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, carat, pennyweight, grain, newton (see technical manual for complete listing)

Operating Modes:
Weighing, percent weighing, parts counting, checkweighing, dynamic/animal weighing, filling, totalization, formulation, Differential weighing, density determination, peak hold, pipette adjustment, SQC

Power:
AC adapter input: 100 to 240 VAC 0.6 A 50/60 Hz

Stabilization Time:
0.1 mg=0.3 seconds; 0.01 mg=8 second

Min-Weight:
20.0 mg fine range (USP, u=0.10%, k=2)

Calibration:
AutoCal™ at 1.5 °C temperature change, 11 hours and external calibration

Temperature:
Operating:
14 °F to 86 °F (-10 °C to 30 °C)

Est. Weight:
25 lb (12.5 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability (20 g) std	Repeatability (100 g) std	Linearity	Pan Size	Dimensions	Part #	List Price
EX125D	52 g/120 g	0.01 mg / 0.1 mg	±0.015 mg	0.1 mg	±0.1 mg	3.2 in (81 mm)	9 × 15.4 × 13.8 in (230 × 393 × 350 mm)	**171347**	$10,110.00
EX125	120 g	0.01 mg	±0.015 mg	0.02 mg	±0.1 mg	3.2 in (81 mm)	9 × 15.4 × 13.8 in (230 × 393 × 350 mm)	**171348**	$12,600.00
EX225D	120 g/220 g	0.01 mg / 0.1 mg	±0.015 mg	0.02 mg / 0.1 mg	±0.1 mg	3.2 in (81 mm)	9 × 15.4 × 13.8 in (230 × 393 × 350 mm)	**171349**	$12,870.00
EX225D/AD	120 g/220 g	0.01 mg / 0.1 mg	±0.015 mg	0.02 mg / 0.1 mg	±0.1 mg	3.2 in (81 mm)	9 × 15.4 × 13.8 in (230 × 393 × 350 mm)	**171350**	$13,290.00
EX225/AD	220 g	0.01 mg	±0.015 mg	0.03 mg	±0.1 mg	3.2 in (81 mm)	9 × 15.4 × 13.8 in (230 × 393 × 350 mm)	**171351**	$13,770.00

Options/Accessories

Part #	Model #	Description	Price
70406	80500525	RS-232 Cable, PC 9-pin to EX	$354.00
156234	46001724	Multi-range AC adapter	$90.00
156235	46001780	International plug set	$45.00



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Pioneer® PX Series

Standard Features

- Easy-to-clean analytical draft shield
- Up-front level indicator
- Selectable environment settings
- Flexibility of available options
- Removable doors for easy cleaning and access
- Up-front level bubble for easy reference
- Selectable environmental settings
- Standard security bracket
- RS-232 interface for connecting to printer or PC
- Security menu lock
- Backlight display
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, carat, ounce, troy ounce, grain, pennyweight, momme, taels, tical, tola, baht, mesghal, newton, custom unit

Operating Modes:
Weighing, parts counting, percent, density determination, dynamic weighing

Power:
120 VAC adapter (220 to 240 VAC adapter by special order), 50/60 Hz

Stabilization Time :
Approx. 4 seconds

Calibration Weight:
PX84/E: 50/80
PX124/E: 50/100
PX224/E: 100/200

Temperature:
Operating:
50 °F to 86 °F (10 °C to 30 °C)

Est. Weight:
10 lb (4.5 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
PX84/E	82 g	0.1 mg	0.1 mg	0.2 mg	7.32 × 6.30 × 9.05 in (186 × 160 × 230 mm)	3.54 in (90 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	**191850**	$3,060.00
PX124/E	120 g	0.1 mg	0.1 mg	0.2 mg	7.32 × 6.30 × 9.05 in (186 × 160 × 230 mm)	3.54 in (90 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	**191851**	$3,510.00
PX224/E	220 g	0.1 mg	0.1 mg	0.2 mg	7.32 × 6.30 × 9.05 in (186 × 160 × 230 mm)	3.54 in (90 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	**191852**	$3,900.00

Options/Accessories

Part #	A&D Model #	Description	Price
67413	80850080	TAL software WinWedge®	$760.00
191875	80850043	Security device	$426.00
102799	80780009	Forceps, 2.75 in (70 mm)	$52.00
102800	80780010	Forceps, 3.5 in (89 mm)	$52.00
33454	80250048	Black scoop, aluminum 4 in × 3.5 ft (10.2 cm × 8.9 cm), weight 24 g	$78.00
97250	80250400	Stainless steel scoop 11.9 in × 7.38 in × 1.69 in	$144.00
100292	80250954	Stainless steel scoop 17.2 in × 11 in × 3.4 in (44 cm × 28 cm × 8.5 cm)	$89.00
156234	46001724	AC adapter (requires 156235 plug set)	$90.00
156235	46001780	Universal plug set	$45.00
191876	30472064	Auxiliary display AD7-RS	$138.00
191877	80253384	Density kit	$1,332.00
191878	83034024	Sinker glass for density determination	$1,116.00
191879	83021085	USB interface cable	$336.00
191880	30093334	Dust cover	$49.00
191881	30372546	In-use cover	$80.00



Explorer® Series

Standard Features

- Automatic calibration via AutoCal™
- Communication RS-232C
- On-screen prompts
- Spill channel
- Applications library
- Backlit, high-resolution dot matrix display
- GLP outputs via RS-232 to meet traceability requirements
- User-selectable filter, stability indicator and auto-zero tracking
- Five-language operation display text
- Protective in-use cover and security bracket
- Underweigh hook

OPTIONS

- NTEP Certified, Legal for Trade models by special order

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, carat, pennyweight, troy ounce, grain, newton (see technical manual for complete listing)

Operating Modes:
Weighing, percent weighing, parts counting, checkweighing, dynamic/animal weighing, filling, totalization, formulation, Differential weighing, density determination, peak hold, ingredient costing, pipette adjustment, SQC

Power:
AC adapter input: 100 to 240 VAC 0.6 A 50/60 Hz

Stabilization Time:
EX124: Approx. 2 seconds
EX224: Approx. 2 seconds
EX324: Approx. 3 seconds

Calibration:
AutoCal™ at 1.5 °C temperature change, 11 hours, and external calibration

Temperature:
Operating:
50 °F to 86 °F (10 °C to 30 °C)

Est. Weight:
21.1 lb (9.6 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
EX124	120 g	0.0001 g	±0.0001 g	±0.0002 g	9.5 × 7.5 × 6.5 in (241 × 190 × 165 mm)	Ø 3.5 in (90 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	**121192**	$7,500.00
EX224	220 g	0.0001 g	±0.0001 g	±0.0002 g	9.5 × 7.5 × 6.5 in (241 × 190 × 165 mm)	Ø 3.5 in (90 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	**121193**	$8,340.00
EX324	320 g	0.0001 g	±0.0001 g	±0.0002 g	9.5 × 7.5 × 6.5 in (241 × 190 × 165 mm)	Ø 3.5 in (90 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	**121194**	$9,780.00

Options/Accessories

Part#	Model#	Description	Price
35263	80850043	Security device for EX	$120.00
77712	80500524	RS-232 cable, PC 25-pin to EX	$336.00
70406	80500525	RS-232 Cable, PC 9-pin to EX	$354.00
156234	46001724	Multi-range AC adapter	$90.00
156235	46001780	International plug set	$45.00



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Adventurer® Series

Standard Features

- Stable, accurate and fast operation, ensuring optimal weighing results
- Color touchscreen with 4.3 in (109 mm) display size
- Dual USB ports and RS-232 provide connectivity options
- Space-saving, top-mounted draft shield on analytical models
- Real-time clock with GLP/GMP data
- Below minimum sample weight indication with minimum weight feature
- AutoCal™ automatic calibration

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton (see technical manual for complete listing)

Operating Modes:
Counting, weighing, dynamic weighing, checkweighing, percent weighing, totalization, display hold, density determination, formulation

Power:
100 to 240 VAC, 0.3 A, 50/ 60 Hz
AC adapter

Stabilization Time:
< 3 seconds

Calibration Weight:
AX124: 100 g
AX224: 224 g
AX324: 300 g

Temperature:
Operating:
50 °F to 86 °F (10 °C to 30 °C)

Est. Weight:
17.2 lb (7.8 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
AX124	120 g	0.0001 g	1 mg	0.2 mg	3.5 in (90 mm)	9.05 × 13.92 × 13.39 in (230 × 354 × 340 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	**164622**	$5,490.00
AX224	220 g	0.0001 g	1 mg	0.2 mg	3.5 in (90 mm)	9.05 × 13.92 × 13.39 in (230 × 354 × 340 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	**164623**	$6,060.00
AX324	320 g	0.0001 g	1 mg	0.2 mg	3.5 in (90 mm)	9.05 × 13.92 × 13.39 in (230 × 354 × 340 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	**164625**	$6,600.00

Options/Accessories

Part #	Model #	Description	Price
191879	83021085	USB cable, Type A to B	$336.00
191875	80850043	Security device (laptop lock)	$426.00
77712	80500524	25-pin RS-232 cable (PC)	$336.00
70406	80500525	9-pin RS-232 cable (PC)	$354.00



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Scout® SJX Series

Standard Features

- Automatic Zero Tracking (AZT)
- Integral LCD display
- Auto-off feature
- Programmable tare
- Transportation lock
- Menu/calibration lockout switch

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, pound/ounce

Operating Modes:
Weighing, parts counting, percent weighing, checkweighing, totalization, density determination, display hold

Power:
AC adapter (included) or four AA batteries (not included)

Battery Life:
Approx. 80 hours

Verification Interval:
SJX323N/E: 0.01 g
SJX622N/E and SJX1502N/E: 0.1 g
SJX6201N/E: 1 g

Draft Shield:
SJX323N/E: Yes
SJX622N/E, SJX1502N/E, SJX6201N/E: No

Class:
SJX323N/E and SJX1502N/E: II
SJX622N/E and SJX6201N/E: III

Stabilization Time:
< 1.5 seconds

Calibration Weight:
SJX323N/E: 50 g
SJX622N/E: 300 g
SJX1502M/E: 1.5 kg
SJX6201N/E: 5 kg

Temperature:
Operating:
Class II: 0 °F to 86 °F (-17 °C to 30 °C)
Class III: 50 °F to 104 °F (10 °C to 40 °C)

Humidity:
10% to 80% (no condensation)

Est. Weight:
3.3 lb (1.5 kg)

Warranty:
Two-year limited

Approvals:
NTEP 16-015A1
Measurement Canada: AM-6008

Return Policy:
OHAUS standard policy - restock fee may apply

Measurement Canada Approved

Model	Capacity	Readability	Repeatability	Pan Size	Dimensions	Part #	List Price
SJX323N/E	64 g	0.001 g	0.002 g	Ø 3.7 in (Ø 93 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	**196652**	$1,248.00
SJX622N/E	620 g	0.1 g	0.01 g	Ø 4.7 in (Ø 120 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	**196653**	$1,548.00
SJX1502N/E	1,500 g	0.01 g	0.02 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	**196654**	$1,800.00
SJX6201N/E	6,200 g	1 g	0.1 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	**196655**	$1,488.00



SJX323N/E



SJX622N/E



SJX1502N/E and SJX6201N/E

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Valor® 7000 Series

Standard Features

- Touchless sensors
- Backlit dual LCD display
- Illuminated up-front level indicator
- Internal rechargeable battery
- ABS plastic housing
- Skid-resistant leveling feet
- Menu lock switch
- Multiple application modes
- RS-232 interface for connecting to printer or PC
- Fast stabilizing time

Specifications

Weighing Units:
Pound, ounce, kilogram, gram

Operating Modes:
Weighing, percent, checkweighing, accumulation

Power:
100 to 240 V, internal rechargeable battery
210-hour operation with 12 hour full charge

Stabilization Time:
Approx. 1 second

NTEP Resolution:
V71P1502T: 3 × 0.001 lb
V71P3T: 6 × 0.002 lb
V71P6T: 15 × 0.005 lb
V71P15T: 30 × 0.01 lb
V71P30T: 60 × 0.02 lb

Calibration Weight:
1502T: 1.5 kg/3 lb
3T: 3 kg/6 lb
6T: 6 kg/15 lb
15T: 15 kg/30 lb
30T: 30 kg/60 lb

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Est. Weight:
9.2 lb (4.2 kg)

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Approvals:
NTEP 13-022
Measurement Canada AM-5907C
OIML R76/2006-NL1-12-46
NSF

Measurement Canada Approved

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
V71P1502T	1.5 kg	0.00005 kg	11.8 × 8.9 in (300 × 225 mm)	12.2 × 12.9 × 4.6 in (311 × 327 × 117 mm)	**157316**	$1,260.00
V71P3T	3 kg	0.0001 kg	11.8 × 8.9 in (300 × 225 mm)	12.2 × 12.9 × 4.6 in (311 × 327 × 117 mm)	**157317**	$1,260.00
V71P6T	6 kg	0.0002 kg	11.8 × 8.9 in (300 × 225 mm)	12.2 × 12.9 × 4.6 in (311 × 327 × 117 mm)	**157318**	$1,260.00
V71P15T	15 kg	0.0005 kg	11.8 × 8.9 in (300 × 225 mm)	12.2 × 12.9 × 4.6 in (311 × 327 × 117 mm)	**157319**	$1,260.00
V71P30T	30 kg	0.001 kg	11.8 × 8.9 in (300 × 225 mm)	12.2 × 12.9 × 4.6 in (311 × 327 × 117 mm)	**157320**	$1,260.00

Options/Accessories

Part #	Model #	Description	Price
154638	30037447	Ethernet kit	$168.00



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Adventurer® Series

Standard Features

- Stable, accurate and fast operation, ensuring optimal weighing results
- Color touchscreen with 4.3 in (109 mm) display size
- Dual USB ports and RS-232 provide connectivity options
- Space-saving, top-mounted draft shield on analytical models
- Real-time clock with GLP/GMP data
- Below minimum sample weight indication with minimum weight feature
- AutoCal™

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton, Hong Kong tael, Singapore tael, Taiwan tael, momme, tical, baht, mesghal, tola, custom

Operating Modes:
Counting, weighing, dynamic weighing, checkweighing, percent weighing, totalization, display hold, density determination, formulation

Power:
100 to 240 VAC, 0.3 A, 50/60 Hz AC adapter

Class:
AX224N: I (0.001 g)
AX223N/E: II (0.01 g)
AX423N/E and AX523N/E: II (0.01 g)
AX622N/E, AX1502N/E, AX2202N/E, AX4202N/E: II (0.1 g)
AX8201N/E: II (1 g)

Stabilization Time:
<1.5 seconds

Calibration Weight:
224N , AX223 and AX223N/E: 200 g
AX423: 400 g
AX523: 500 g
AX622: 600 g
1502N/E: 1500 g
2202N/E: 2000 g
4202N/E: 4000 g
8201N/E: 8000 g

Temperature:
Operating:
10 °C to 30 °C (50 °F to 86 °F)

Est. Weight:
AX224N: 17.2 lb (7.8 kg)
AX223N/E: 12.8 lb (5.8 kg)
AX423N/E and AX523N/E: 12.8 lb (5.8 kg)
AX622N/E, AX1502N/E, AX2202N/E, AX4202N/E: 14.4 lb (6.5 kg)
AX8201N/E: 12.6 lb (5.7 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Approvals:
NTEP 14-082A4
Measurement Canada: AM-5957

Measurement Canada Approved

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
AX224N	220 g	0.0001 g	2 mg	0.2 mg	3.5 in (90 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	**164624**	$6,420.00
AX223N/E	220 g	0.001 g	0.001 g	0.2 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	**164627**	$2,916.00
AX423N/E	420 g	0.001 g	0.001 g	0.002 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	**164629**	$3,480.00
AX523N/E	520 g	0.001 g	0.001 g	0.002 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	**164632**	$3,870.00
AX622N/E	620 g	0.01 g	0.001 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164634**	$2,292.00
AX1502N/E	1,520 g	0.01 g	0.001 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164636**	$2,544.00
AX2202N/E	2,200 g	0.01 g	0.01 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164638**	$2,832.00
AX4202N/E	4,200 g	0.01 g	0.01 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164640**	$3,600.00
AX8201N/E	8,200 g	0.1 g	0.1 g	0.02 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164644**	$2,832.00

Options/Accessories

Part #	Model #	Description	Price
191879	83021085	USB cable, Type A to B	$336.00
191875	80850043	Security device (laptop lock)	$426.00
77712	80500524	25-pin RS-232 cable (PC)	$336.00
70406	80500525	9-pin RS-232 cable (PC)	$354.00



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Adventurer® Series

Standard Features

- Stable, accurate and fast operation, ensuring optimal weighing results
- Color touchscreen with 4.3 in (109 mm) display size
- Dual USB ports and RS-232 provide connectivity options
- Space-saving, top-mounted draft shield on analytical models
- Real-time clock with GLP/GMP data
- Below minimum sample weight indication with minimum weight feature
- AutoCal™ automatic internal adjustment weight for optimized weighing performance

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton, Hong Kong tael, Singapore tael, Taiwan tael, momme, tical, baht, mesghal, tola, custom

Operating Modes:
Counting, weighing, dynamic weighing, checkweighing, percent weighing, totalization, display hold, density determination, formulation

Power:
100 to 240 VAC, 0.3 A, 50/60 Hz AC adapter

Stabilization Time:
Approx. 1 second

Calibration Weight:
AX223: 200 g
AX423: 400 g
AX523: 500 g
AX622: 600 g

Temperature:
Operating:
10 °C to 30 °C (50 °F to 86 °F)

Est. Weight:
AX223, AX423, AX523: 12.8 lb (5.8 kg)
AX622: 14.8 lb (6.5 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
AX223	220 g	0.001 g	0.001 g	0.2 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	**164626**	$3,300.00
AX423	420 g	0.001 g	0.001 g	0.002 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	**164628**	$4,020.00
AX523	520 g	0.001 g	0.001 g	0.002 mg	5.1 in (130 mm)	13.93 × 13.39 × 9.05 in (354 × 340 × 230 mm)	**164630**	$4,380.00
AX622	620 g	0.01 g	0.001 g	0.002 mg	6.9 x 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164633**	$2,520.00

Options/Accessories

Part #	Model #	Description	Price
191879	83021085	USB cable, Type A to B	$336.00
191875	80850043	Security device (laptop lock)	$426.00
77712	80500524	25-pin RS-232 cable (PC)	$336.00
70406	80500525	9-pin RS-232 cable (PC)	$354.00



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Pioneer® PX Series

Standard Features

- Easy-to-clean analytical draft shield (select models)
- Removable doors for easy cleaning and access
- Up-front level bubble for easy reference
- Selectable environmental settings
- Standard security bracket
- RS-232 interface for connecting to printer or PC
- Security menu lock
- Backlight display
- Flexibility of available options
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, carat, ounce, troy ounce, grain, pennyweight, momme, taels, tical, tola, baht, mesghal, newton, custom unit

Operating Modes:
Weighing, parts counting, percent, density, determination, dynamic weighing

Power:
120 VAC adapter (220 to 240 VAC adapter by special order), 50/60 Hz

Stabilization Time:
Approx. 4 seconds

Calibration Weight:
PX163/E: 100/150 g
PX323/E: 200/300 g
PX523/E: 200/500 g

Temperature:
Operating:
10 °C to 30 °C (50 °F to 86 °F)

Est. Weight:
10 lb (4.5 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
PX163/E	160 g	0.001 g	1 mg	2 mg	4.72 in (120 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	**191853**	$1,776.00
PX323/E	320 g	0.001 g	1 mg	2 mg	4.72 in (120 mm)	8.2 × 12.6 × 12.2 in (209 × 321 × 309 mm)	**191854**	$2,064.00

Options/Accessories

Part #	A&D Model #	Description	Price
67413	80850080	TAL software WinWedge®	$760.00
191875	80850043	Security device	$426.00
102799	80780009	Forceps, 2.75 in (70 mm)	$52.00
102800	80780010	Forceps, 3.5 in (89 mm)	$52.00
33454	80250048	Black scoop, aluminum 4 in × 3.5 ft (10.2 cm × 8.9 cm), weight 24 g	$78.00
97250	80250400	Stainless steel scoop 11.9 in × 7.38 in × 1.69 in	$144.00
100292	80250954	Stainless steel scoop 17.2 in × 11 in × 3.4 in (44 cm × 28 cm × 8.5 cm)	$89.00
156234	46001724	AC adapter (requires 156235 plug set)	$90.00
156235	46001780	Universal plug set	$45.00
191876	30472064	Auxiliary display AD7-RS	$138.00
191877	80253384	Density kit	$1,332.00
191878	83034024	Sinker glass for density determination	$1,116.00
191879	83021085	USB interface cable	$336.00
191880	30093334	Dust cover	$49.00
191881	30372546	In-use cover	$80.00



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Explorer® Series

Standard Features

- Large, 5.7-inch full-color touchscreen display with intuitive setup and application software
- AutoCal™ automatic internal adjustment weight for optimized weighing performance
- 14 application modes, 11 weighing units and five display languages for a wide variety of applications
- Four programmable touchless sensors for hands-free operation
- 0.001 g models feature frameless draftshield with anti-static glass, flip-top and large side entry doors on top-mounted bearings

OPTIONS

- External calibration models

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, carat, pennyweight, troy ounce, grain, newton (see technical manual for complete listing)

Operating Modes:
Weighing, percent weighing, parts counting, checkweighing, dynamic/animal weighing, filling, totalization, formulation, Differential weighing, density determination, peak hold, ingredient costing, pipette adjustment, SQC

Power:
AC adapter input: 100 to 240 VAC 0.6 A 50/60 Hz

Stabilization Time:
Approx. 1.5 second

Calibration:
AutoCal™ at 1.5 °C temperature change, 11 hours, and external calibration

Temperature:
Operating:
10 °C to 30 °C (50 °F to 86 °F)

Est. Weight:
21.1 lb (9.6 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
EX223	220 g	0.001 g	±0.001 g	±0.002 g	9.5 × 7.5 × 6.5 in (241 × 191 × 165 mm)	Ø 5.1 in (130 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	**121195**	$5,280.00
EX423	420 g	0.001 g	±0.001 g	±0.002 g	9.5 × 7.5 × 6.5 in (241 × 191 × 165 mm)	Ø 5.1 in (130 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	**121196**	$5,760.00
EX623	620 g	0.001 g	±0.001 g	±0.002 g	9.5 × 7.5 × 6.5 in (241 × 191 × 165 mm)	Ø 5.1 in (130 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	**121197**	$7,050.00
EX1103	1,100 g	0.001 g	±0.001 g	±0.002 g	9.5 × 7.5 × 6.5 in (241 × 191 × 165 mm)	Ø 5.1 in (130 mm)	9.1 × 15.5 × 13.8 in (230 × 393 × 350 mm)	**121198**	$8,250.00

Options/Accessories

Part #	Model #	Description	Price
35263	80850043	Security device	$120.00
77712	80500524	RS-232 cable, PC 25-pin to EX	$336.00
70406	80500525	RS-232 Cable, PC 9-pin to EX	$354.00
156234	46001724	Multi-range AC adapter	$90.00
156235	46001780	International plug set	$45.00



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Scout® Series

Standard Features

- ABS housing and stainless steel pan
- Display type (SPX): backlit LCD, six-digit, seven-segment with white LED backlight
- Display type (STX): full-color touchscreen WQVGA graphic LCD

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton, pound/ounce (see technical manual for complete listing)

Operating Modes:
Weighing, parts counting, percent weighing, checkweighing, totalization, display hold, only available on STX models: animal/dynamic weighing, density determination, mole weighing

Power:
Multi-range, multi-plug AC power or battery (uses 4 AA batteries not included)

Stabilization Time:
Approx. 1 second

Battery Life:
SPX123, SPX223, SPX422, SPX622, SPX1202, SPX2202, SPX6201: 80 hours
SPX222, SPX421, SPX621, SPX2201, SPX8200: 120 hours

Calibration Weight:
SPX123 and STX123: 100 g
SPX223, STX223: 200 g

Temperature:
Operating:
10 °C to 40 °C (50 °F to 104 °F);
10% to 85% at 31 °C, decreasing linearly to 50% at 40 °C (no condensation)

Est. Weight:
2.8 lb (1.24 kg)

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
LCD Model								
SPX123	120 g	0.001 g	2 d	0.003 g	Ø 3.7 in (93 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	**171984**	$1,248.00
SPX223	220 g	0.001 g	2 d	0.001 g	Ø 3.7 in (93 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	**171985**	$1,392.00
Touchscreen Model								
STX123	120 g	0.001 g	2 d	0.003 g	Ø 3.7 in (93 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	**171996**	$1,416.00
STX223	220 g	0.001 g	2 d	0.001 g	Ø 3.7 in (93 mm)	8 × 8.7 × 4.1 in (202 × 222 × 103 mm)	**171998**	$1,584.00

Options/Accessories

Part #	Model #	Description	Price
67413	80850080	WinWedge® TAL Software	$760.00
181878	30330714	Power supply, US plug, 110/220 VAC	$47.00



SPX Round Pan



STX Rectangular Pan

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Pioneer® PX Series

Standard Features

- Up-front level bubble for easy reference
- Selectable environmental settings
- Standard security bracket
- RS-232 interface for connecting to printer or PC
- Security menu lock
- Backlight display
- Flexibility of available options
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, carat, ounce, troy ounce, grain, pennyweight, momme, taels, tical, tola, baht, mesghal, newton, custom unit

Operating Modes:
Weighing, parts counting, percent, density determination, dynamic weighing

Power:
120 VAC adapter (220 to 240 VAC adapter by special order), 50/60 Hz

Stabilization Time:
160 to 520 g: Approx. 2 seconds
1,600 to 4,200 g: Approx. 1 second

Calibration Weight:
PX1602/E: 1,000/1,500 g
PX2202/E: 1,000/2,000 g
PX3202/E: 2,000/3,000 g
PX4202/E: 2,000/4,000 g
PX2202/E: 1,000/2,000 g
PX4201/E: 2,000/4,000 g

Temperature:
Operating:
50 °F to 86 °F (10 °C to 30 °C)

Est. Weight:
160 to 520 g: 10 lb (4.5 kg)
1,600 to 4,200 g: 7.7 lb (3.5 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
PX1602/E	1,600 g	0.01 g	10 mg	20 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	**191856**	$1,704.00
PX2202/E	2,200 g	0.01 g	10 mg	20 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	**191857**	$1,872.00
PX3202/E	3,200 g	0.01 g	10 mg	20 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	**191858**	$2,244.00
PX4202/E	4,200 g	0.01 g	10 mg	20 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	**191859**	$2,544.00
PX2201/E	2,200 g	0.1 g	100 mg	200 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	**191860**	$1,584.00
PX4201/E	4,200 g	0.1 g	100 mg	200 mg	7.1 in (180 mm)	8.2 × 12.6 × 3.9 in (209 × 321 × 98 mm)	**191861**	$1,824.00

Options/Accessories

Part #	Model #	Description	Price
67413	80850080	TAL software WinWedge®	$760.00
191875	80850043	Security device	$426.00
102799	80780009	Forceps, 2.75 in (70 mm)	$52.00
102800	80780010	Forceps, 3.5 in (89 mm)	$52.00
33454	80250048	Black scoop, aluminum 4 in × 3.5 ft (10.2 cm × 8.9 cm), weight 24 g	$78.00
97250	80250400	Stainless steel scoop 11.9 in × 7.38 in × 1.69 in	$144.00
100292	80250954	Stainless steel scoop 17.2 in × 11 in × 3.4 in (44 cm × 28 cm × 8.5 cm)	$89.00
156234	46001724	AC adapter (requires 156235 plug set)	$90.00
156235	46001780	Universal plug set	$45.00
191876	30472064	Auxiliary display AD7-RS	$138.00
191877	80253384	Density kit	$1,332.00
191878	83034024	Sinker glass for density determination	$1,116.00
191879	83021085	USB interface cable	$336.00
191880	30093334	Dust cover	$49.00
191881	30372546	In-use cover	$80.00



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Explorer® Series

Standard Features

- Large, 5.7-inch full-color touchscreen display with intuitive set up and application software
- AutoCal™ automatic internal adjustment weight for optimized weighing performance
- 14 application modes, 11 weighing units and five display languages for a wide variety of applications
- Four programmable touchless sensors for hands-free operation

OPTIONS

- External calibration models

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, carat, pennyweight, troy ounce, grain, newton (see technical manual for complete listing)

Operating Modes:
Weighing, percent weighing, parts counting, checkweighing, dynamic/animal weighing, filling, totalization, formulation, Differential weighing, density determination, peak gold, ingredient costing, pipette adjustment, SQC

Power:
AC adapter input: 100 to 240 VAC 0.6 A 50/60 Hz

Stabilization Time:
1 second

Calibration:
AutoCal™ at 1.5 °C temperature change, 11 hours and external calibration

Temperature:
Operating:
10 °C to 30 °C (50 °F to 86 °F)

Est. Weight:
EX2202, EX4202: 15 lb (6.8 kg)
EX6202, EX10202, EX6201, EX10201: 16.3 lb (7.4 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
EX2202	2,200 g	0.01 g	±0.01 g	±0.02 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	**121199**	$5,340.00
EX4202	4,200 g	0.01 g	±0.01 g	±0.02 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	**121200**	$6,120.00
EX6202	6,200 g	0.01 g	±0.01 g	±0.02 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	**121201**	$6,960.00
EX10202	10,200 g	0.01 g	±0.01 g	±0.02 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	**121202**	$8,250.00
EX6201	6,200 g	0.1 g	±0.1 g	±0.1 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	**121203**	$5,790.00
EX10201	10,200 g	0.1 g	±0.1 g	±0.1 g	7.5 × 7.9 in (190 × 200 mm)	9.1 × 15.5 × 3.9 in (230 × 393 × 98 mm)	**121204**	$6,330.00

Options/Accessories

Part #	Model #	Description	Price
35263	80850043	Security device	$120.00
77712	80500524	RS-232 cable, PC 25-pin to EX	$336.00
70406	80500525	RS-232 Cable, PC 9-pin to EX	$354.00
156234	46001724	Multi-range AC adapter	$90.00
156235	46001780	International plug set	$45.00



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Adventurer® Series

Standard Features

- AutoCal™ automatic internal adjustment weight for optimized weighing performance
- Stable, accurate and fast operation, ensuring optimal weighing results
- Color touchscreen with 4.3 in (109 mm) display size
- Dual USB ports and RS-232 provide connectivity options
- Real-time clock with GLP/GMP data
- Below minimum sample weight indication with minimum weight feature

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton (see technical manual for complete listing

Operating Modes:
Counting, weighing, dynamic weighing, checkweighing, percent weighing, totalization, display hold, density determination, formulation

Power:
100 to 240 VAC, 0.3 A, 50/60 Hz AC adapter

Stabilization Time:
<1.5 seconds

Temperature:
Operating:
10 °C to 30 °C (50 °F to 86 °F)

Est. Weight:
AX1502, AX2202, AX4202: 14.4 lb (6.5 kg)
AX8201, AX5202: 12.6 lb (5.7 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
AX1502	1,520 g	0.01 g	0.001 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164635**	$3,090.00
AX2202	2,200 g	0.01 g	0.01 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164637**	$3,270.00
AX4202	4,200 g	0.01 g	0.01 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164639**	$4,110.00
AX5202	5,200 g	0.01 g	0.01 g	0.002 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164641**	$4,650.00
AX4201	4,200 g	0.1 g	0.1 g	0.02 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164642**	$2,712.00
AX8201	8,200 g	0.1 g	0.1 g	0.02 mg	6.9 × 7.7 in (175 × 195 mm)	13.93 × 3.94 × 9.05 in (354 × 100 × 230 mm)	**164643**	$3,180.00

Options/Accessories

Part #	Model #	Description	Price
191879	83021085	USB cable, Type A to B	$336.00
191875	80850043	Security device (laptop lock)	$426.00
77712	80500524	25-pin RS-232 cable (PC)	$336.00
70406	80500525	9-pin RS-232 cable (PC)	$354.00



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Navigator™ XT Series

Standard Features

- Touchless IR (infrared) sensors minimize keypad use
- Program IR sensor to control zero, print tare, backlight and power functions
- Backlit 0.8 in LCD display for high visibility
- Illuminated level indicator at start-up
- Integrated transportation and calibration lock switch
- Hygienic design for easy cleanup in food, laboratory and industrial applications
- Impact-resistant ABS plastic housing with polished stainless steel spill-resistant pan
- Non-skid leveling feet

Specifications

Weighing Units:
Gram, carat, ounce, pound, carat, pennyweight, troy ounce, grain, pound/ounce (see technical manual for complete listing)

Operating Modes:
Weighing, percent, parts counting, checkweighing, display hold, accumulation/totalization

Power:
12 VDC 0.42 A AC adapter, 100 to 240 V, four C-batteries (not included)

Stabilization Time:
1 second (NVT4201 = 1.5 seconds)

Calibration Weight:
NVT2201: 2 lb (1 kg)
NVT4201: 5 lb (2 kg)
NVT6200: 10 lb (5 kg)
NVT12000: 10 lb (5 kg)
NVT2200: 20 lb (10 kg)

Temperature:
Operating:
10 °C to 40 °C (50 °F to 104 °F) at 20% to 85% RH

Est. Weight:
5.1 lb (2.3 kg)

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Linearity	Pan Size	Dimensions	Part #	List Price
NVT2201	2,200 g	0.1 g	0.1 g/±0.2 g	9.1 × 6.9 in (230 × 174 mm)	9.5 × 9.8 × 2.9 in (240 × 250 × 74 mm)	**194607**	$708.00
NVT4201	4,200 g	0.1 g	0.1 g/±0.2 g	9.1 × 6.9 in (230 × 174 mm)	9.5 × 9.8 × 2.9 in (240 × 250 × 74 mm)	**194608**	$882.00
NVT6200	6,200 g	1 g	1 g/±2 g	9.1 × 6.9 in (230 × 174 mm)	9.5 × 9.8 × 2.9 in (240 × 250 × 74 mm)	**194609**	$882.00
NVT12000	12,000 g	1 g	1 g/±2 g	9.1 × 6.9 in (230 × 174 mm)	9.5 × 9.8 × 2.9 in (240 × 250 × 74 mm)	**194610**	$954.00
NVT22000	22,000 g	1 g	1 g/±2 g	9.1 × 6.9 in (230 × 174 mm)	9.5 × 9.8 × 2.9 in (240 × 250 × 74 mm)	**194611**	$1,134.00

Options/Accessories

Part#	Model#	Description	Price
118779	83032107	RS-232 interface kit, Navigator series	$294.00
118780	83032108	USB interface kit	$294.00
118781	83032109	Ethernet interface kit	$294.00
194616	30467963	Carrying case	$198.00
194615	30467987	Universal AC adapter	$68.00



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Scout® Series

Standard Features

- ABS housing and stainless steel pan
- Display type (SPX): backlit LCD, six-digit, seven-segment with white LED backlight
- Display type (STX): full-color touchscreen WQVGA graphic LCD

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton, pound/ounce (see technical manual for complete listing)

Operating Modes:
Weighing, parts counting, percent weighing, checkweighing, totalization, display hold, only available on STX models: animal/dynamic weighing, density determination, mole weighing

Power:
Multi-range, multi-plug AC power or battery (uses four-AA batteries not included)

Battery Life:
SPX422, SPX622, SPX1202, SPX2202, SPX6201: 80 hours
SPX222, SPX421, SPX621, SPX2201, SPX8200: 120 hours

Stabilization Time:
Approx. 1 second

Calibration Weight:
SPX222, STX222: 200 g
SPX422, SPX421, STX422, SPT421: 400 g
SPX622, SPX621, STX622, STX621: 600 g
SPX1202 and STX1202: 1,000 g
SPX2202, SPX2201, STX2202, STX2201: 2,000 g
SPX6201: 6,000 g
SPX8200: 8,000 g

Temperature:
Operating:
10 °C to 40 °C (50 °F to 104 °F)

Humidity:
10% to 85% at 31 °C, decreasing linearly to 50% at 40 °C (no condensation)

Est. Weight:
2.8 lb (1.24 kg)

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
LCD Model								
SPX222	220 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171986**	$900.00
SPX422	420 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171987**	$1,452.00
SPX622	620 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171988**	$1,704.00
SPX1202	1,200 g	0.01 g	2d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171989**	$1,944.00
SPX2202	2,200 g	0.01 g	2d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171990**	$2,160.00
SPX421	420 g	0.1 g	1d	0.1 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171991**	$504.00
SPX621	620 g	0.1 g	1d	0.1 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171992**	$744.00
SPX2201	2,200 g	0.1 g	1d	0.1 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171993**	$948.00
SPX6201	6,200 g	0.1 g	1d	0.2 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171994**	$1,536.00
SPX8200	8,200 g	1 g	1d	1 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171995**	$774.00



SPX Round Pan

Scout® Series

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
Touchscreen Model								
STX222	220 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**171999**	$1,038.00
STX422	420 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**172000**	$1,452.00
STX622	620 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**172001**	$1,704.00
STX1202	1,200 g	0.01 g	2d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 (202 × 224 × 54 mm)	**172002**	$1,944.00
STX2202	2,200	0.01 g	2d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**172003**	$2,160.00
STX421	420 g	0.01 g	1d	0.01 g	Ø 4.7 in (120 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**172004**	$594.00
STX621	620 g	0.1 g	1d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**172005**	$744.00
STX2201	2,200 g	0.1 g	1d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**172006**	$1,116.00
STX6201	6,200 g	0.1 g	1d	0.02 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**172007**	$1,764.00
STX8200	8,200 g	1 g	1d	0.01 g	6.7 × 5.5 in (170 × 140 mm)	8 × 8.8 × 2.1 in (202 × 224 × 54 mm)	**172008**	$912.00

Options/Accessories

Part #	Model #	Description	Price
67413	80850080	WinWedge® TAL Software	$760.00
181878	30330714	Power supply, US plug, 110/220 VAC	$47.00



STX Rectangular Pan

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Valor® 3000 Xtreme Series *Non-washdown*

Standard Features

- Full 304 stainless steel housing with chemical resistant keypad
- Removable stainless steel weighing pan
- USDA approved
- Supports HACCP
- Resolutions up to 20,000d
- SmarText™ user interface
- Bright backlit LCD display
- Convenient up-front level device
- NTEP 08-008A1 models available by special order

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, decimal, pound/ounce, fractional ounces (see technical manual for complete listing)

Operating Modes:
Weighing, percent weighing, combined zero/tare, specific Gravity

Power:
20 VAC adapter (9 VDC, 0.5 A), four 1.5 volt C batteries (not included)

Stabilization Time:
< 3 seconds

Battery Life:
V31XH202, V31XH402, V31X501: 50 hours with alkaline cells
V31XH2, V31X3, V31XH4, V31X6: 120 hours with alkaline cells

Protection Rating:
IP44 (non-washdown)

Calibration:
Digital external calibration

Temperature:
Operating:
0 °C to 40 °C (32 °F to 104 °F)

Est. Weight:
10 lb (4.8 kg)

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Approvals:
NSF

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
V31XH202	200 g	0.01 g	4.7 in (120 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	**100283**	$1,392.00
V31XH402	400 g	0.01 g	4.7 in (120 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	**117790**	$1,932.00
V31X501	500 g	0.1 g	4.7 in (120 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	**117789**	$1,074.00
V31XH2	2 kg	0.1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	**100284**	$1,392.00
V31X3	3 kg	1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	**100285**	$942.00
V31XH4	4 kg	0.1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	**117792**	$1,932.00
V31X6	6 kg	1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	**100286**	$942.00

Options/Accessories

Part #	Model #	Description	Price
103119	80251216	Hardshell carrying case for FD and Valor	$234.00
102756	80251147	Sandwich pan, 11 in × 5.9 in (280 × 150 mm)	$150.00
102757	80251148	French fries holder pan	$150.00
102758	80251149	Ice cream cone holder	$150.00
100292	80250954	Stainless steel scoop 17.2 × 11 × 3.4 in (44 × 28 × 8.5 cm)	$89.00
97250	80250400	Stainless steel scoop 11.9 × 7.4 × 1.7 in (30 × 18.7 × 4.3 cm)	$144.00



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Valor® 3000 Xtreme Series *Washdown*

Standard Features

- Full 304 stainless steel housing with chemical resistant keypad
- Removable stainless steel weighing pan
- USDA approved
- Supports HACCP

Specifications

Weighing Units:
Gram, kilogram, decimal ounce, fractional ounces, pound/ounces (see technical manual for complete listing)

Operating Modes:
Weighing, percent weighing, combined zero/tare, specific Gravity

Power:
120 V AC adapter (9 V DC, 0.5 A), four 1.5 Volt C batteries (not included)

Stabilization Time:
Approx. 3 seconds

Battery Life:
V31XW301 and V31XW3: 50 hours with alkaline cells
V31XW6: 120 hours with alkaline cells

Protection Rating:
IP65

Calibration:
Digital external calibration

Temperature:
Operating:
32 °F to 104 °F (0 °C to 40 °C)

Est. Weight:
10 lb (4.8 kg)

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Approvals:
NTEP 08-008

Model	Capacity	Resolution	Pan Size	Dimensions	Part #	List Price
V31XW301	300 g	0.1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	**100287**	$1,080.00
NTEP Certified						
V31XW3	3 kg	1 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	**100288**	$1,080.00
V31XW6	6 kg	2 g	5.8 × 6.2 in (146 × 158 mm)	8.5 × 7.3 × 3 in (218 × 186 × 72 mm)	**100289**	$1,080.00

Options/Accessories

Part #	Model #	Description	Price
103119	80251216	Hardshell carrying case	$234.00
102756	80251147	Sandwich pan, 11 × 5.9 in (280 × 150 mm)	$150.00
102757	80251148	French fries holder pan	$150.00
102758	80251149	Ice cream cone holder	$150.00
100292	80250954	Stainless steel scoop 17.2 × 11 × 3.4 in (44 × 28 × 8.5 cm)	$89.00
97250	80250400	Stainless steel scoop 11.9 × 7.4 × 1.7 in (30 × 18.7 × 4.3 cm)	$144.00



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Valor® 2000 Series *Washdown*

Standard Features

- Front and rear dual display, 0.8 in (20.5 mm)
- Removable stainless steel platform cover
- Fast 0.5 second stabilization time
- SmarText™ interface
- Knife-proof keypad

Specifications

Weighing Units:
Grams, kilograms, pounds, ounces, pound/ounce

Operating Modes:
Weigh, checkweigh

Power:
Universal AC adapter, 12 VDC 0.7 A internal rechargeable lead acid battery

Stabilization Time:
Approx. 1 second

Battery Life:
50 hours with 1 hour recharge time

Protection Rating:
IPX8

Safe Overload:
150% of capacity

Calibration:
Digital external calibration

Temperature:
Operating:
-10 °C to 40 °C (14 °F to 104 °F)

Est. Weight:
8.6 lb (3.9 kg)

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
V22XWE3T	3 kg	0.5 g	7.5 × 9.5 in (242 × 190 mm)	10.1 × 11.3 × 4.9 in (256 × 288 × 124 mm)	**102771**	$972.00
V22XWE6T	6 kg	1 g	7.5 × 9.5 in (242 × 190 mm)	10.1 × 11.3 × 4.9 in (256 × 288 × 124 mm)	**102772**	$972.00
V22XWE15T	15 kg	2 g	7.5 × 9.5 in (242 × 190 mm)	10.1 × 11.3 × 4.9 in (256 × 288 × 124 mm)	**102773**	$972.00

Options/Accessories

Part #	Model #	Description	Price
97250	80250400	Stainless steel scoop 11.9 × 7.4 × 1.7 in (30 × 18.7 × 4.3 cm)	$144.00
100292	80250954	Stainless steel scoop 17.2 × 11 × 3.4 in (44 × 28 × 8.5 cm)	$89.00



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Compass CX Series

Standard Features

- Superior RF protection
- Reliable, stable results
- FCC Class B Part 15 operation
- Large, removable stainless steel weighing platform
- Low-profile design
- Easy operation
- Low-battery indicator
- Automatic shutoff
- Overload protection
- Push-button calibration
- P models: postal chart included

Specifications

Weighing Units:
Grams, pound/ounce, newton

Operating Modes:
Weighing

Power:
3 AA alkaline batteries (included) or AC adapter (not included)

Battery Life:
1,000 hours

Stabilization Time:
CX221, CX621: 1.5 seconds
CX1201: 2 seconds
CX2200, CX5200, CX221P, CX2200P, CX5200P: 1.5 seconds

Calibration Weight:
CX221: 200 g
CX621: 500 g
CX1201, CX2200: 1 kg
CX5200: 2 kg

Temperature:
Operating:
64 °F to 77 °F (18 °C to 25 °C)

Est. Weight:
0.91 lb (0.47 kg)

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Approvals:
CE Listed

CE

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
CX221	220 g	0.1 g	0.1 g	±0.1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	**195245**	$300.00
CX621	620 g	0.1 g	0.1 g	±0.1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	**195246**	$312.00
CX1201	1,200 g	0.1 g	0.1 g	±0.1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	**195247**	$324.00
CX2200	2,200 g	1 g	1 g	±1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	**195248**	$300.00
CX5200	5,200 g	1 g	1 g	±1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	**195249**	$348.00
CX221P	220 g	0.1 g	0.1 g	±0.1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	**195250**	$324.00
CX2200P	2,200 g	1 g	1 g	±1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	**195251**	$324.00
CX5200P	5,200 g	1 g	1 g	±1 g	5 × 5.6 in (127 × 142 mm)	5.3 × 7.9 × 1.6 in (135 × 201 × 41 mm)	**195252**	$348.00

Options/Accessories

Part #	Model #	Description	Price
195254	30467763	Carrying case	$114.00
181878	30330714	US power adapter	$47.00
195256	30333865	AU power adapter	$48.00
195257	30333866	EU power adapter	$48.00
195258	30333867	UK power adapter	$48.00
70434	80850075	Bowl, 1,050 mL	$74.00



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Compass CR Series

Standard Features

- Basic weighing with simple 2-button keypad
- Superior RF protection
- Large weighing platform
- Stackable design with integrated shipping lock
- Low battery indicator
- Auto shut-off feature
- Mechanical and software overload protection
- External push-button calibration

Specifications

Weighing Units:
Grams, pound/ounces, pennyweight, troy ounces

Operating Modes:
Weighing

Power:
Three AA batteries (included)
(AC adapter is optional)

Stabilization Time:
Approx. 3 seconds

Battery Life:
300 hours

Calibration Weight:
CR221: 200 g
CR621: 500 g
CR2200: 1 kg
CR5200: 2 kg

Temperature:
Operating:
18 °C to 25 °C (65 °F to 77 °F)

Est. Weight:
0.875 lb (0.4 kg)

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
CR221	220 g	0.1 g	0.1 g	± 0.1 g	5 × 5.2 in (127 × 132 mm)	5.5 × 8.1 × 1.6 in (140 × 206 × 41 mm)	**195265**	$222.00
CR621	620 g	0.1 g	0.1 g	± 0.1 g	5 × 5.2 in (127 × 132 mm)	5.5 × 8.1 × 1.6 in (140 × 206 × 41 mm)	**195266**	$222.00
CR2200	2,200 g	1 g	1 g	± 1 g	5 × 5.2 in (127 × 132 mm)	5.5 × 8.1 × 1.6 in (140 × 206 × 41 mm)	**195267**	$222.00
CR5200	5,200 g	1 g	1 g	± 1 g	5 × 5.2 in (127 × 132 mm)	5.5 × 8.1 × 1.6 in (140 × 206 × 41 mm)	**195268**	$300.00

Options/Accessories

Part #	Model #	Description	Price
194615	30467987	Power adapter	$68.00
195254	30467763	Carrying case	$114.00
70434	80850075	Bowl, 1,050 mL	$74.00



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YA Series

Standard Features

- Smaller size than most pocket scales allows for a comfortable fit in your pocket
- Clamshell case designs and protects scale during transport
- Bright blue backlit LCD display
- Automatic shutoff

Specifications

Weighing Units:
Grams, ounces, carats, grains

Operating Modes:
Weighing

Power:
Two AAA batteries

Calibration:
External

Est. Weight:
0.3 lb

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Pan Size	Dimensions	Part #	List Price
YA102	100 g	0.01 g	0.01 g	2.8 × 2.0 in (71 × 51 mm)	5.5 × 8.1 × 1.6 in (140 × 206 × 41 mm)	**103106**	$201.00
YA302	300 g	0.05 g	0.05 g	2.8 × 2.0 in (71 × 51 mm)	5.5 × 8.1 × 1.6 in (140 × 206 × 41 mm)	**103107**	$180.00

Options/Accessories

Part #	Model #	Description	Price
33454	4590-30	Black scoop, aluminum 4 × 3.5 in (10.2 × 8.9 cm), weight 24 g	$78.00



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Valor® 1000 Series

Standard Features

- Removable stainless steel platform cover
- Mid-profile ABS plastic housing
- Front-mounted leveling device
- Compact footprint
- Fast response time
- Easy to clean

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, pound/ounce

Operating Modes:
Weigh, accumulate, checkweigh

Power:
Universal AC adapter included (9 VDC 500 mA)
Four D Cell alkaline batteries (not included)

Stabilization Time:
Approx. 1.5 seconds

Battery Life:
1,500 hours (with/without backlight on)

Scale Overload:
120% of capacity

Decimal Ounce:
V12P3: 105 oz × 0.02 oz
V12P6: 210 oz × 0.05 oz
V12P15: 520 oz × 0.1 oz
V12P30: 1,058 oz × 0.5 oz

Decimal Pound:
V12P3: 6.6 lb × 0.001 lb
V12P6: 13 lb × 0.002 lb
V12P15: 33 lb × 0.01 lb
V12P30: 66 lb × 0.02 lb

Grams:
V12P3: 3,000 g × 0.5 g
V12P6: 6,000 g × 1 g
V12P15: 15,000 g × 2 g
V12P30: 30,000 g × 5 g

Temperature:
Operating:
32 °F to 104 °F (0 °C to 40 °C)

Humidity:
10% to 95% relative humidity non-condensing, up to 2.5 miles/4,000 m above sea level

Est. Weight:
8.8 lb (4.0 kg)

Warranty:
One-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Approvals:
NSF

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
V12P3	3 kg	0.5 g	7.5 × 9.8 in (190 × 250 mm)	10.1 × 11 × 4.8 in (256 × 280 × 121 mm)	**205019**	$390.00
V12P6	6 kg	1 g	7.5 × 9.8 in (190 × 250 mm)	10.1 × 11 × 4.8 in (256 × 280 × 121 mm)	**205020**	$390.00
V12P15	15 kg	2 g	7.5 × 9.8 in (190 × 250 mm)	10.1 × 11 × 4.8 in (256 × 280 × 121 mm)	**205021**	$390.00
V12P30	30 kg	5 g	7.5 × 9.8 in (190 × 250 mm)	10.1 × 11 × 4.8 in (256 × 280 × 121 mm)	**205023**	$390.00

Options/Accessories

Part #	Model #	Description	Price
97250	80250400	Stainless steel scoop 11.9 × 7.4 × 1.7 in (30 × 18.7 × 4.3 cm)	$144.00
100292	80250954	Stainless steel scoop 17.2 × 11 × 3.4 in (44 × 28 × 8.5 cm)	$89.00



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Explorer® Series

Standard Features

- Touchless IR (infrared) sensors minimize keypad use
- Program IR sensor to control operations including print, tare and other selectable functions
- Color VGA, 5.7 in display with icons for simple menu navigation
- Multiple application modes designed for versatility
- AutoCal™ calibration
- Robust IP54 die-cast metal bottom housing with stainless steel pan
- ENERGY STAR qualified adapter
- Underweigh hook

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, carat, pennyweight, grain (see technical manual for complete listing)

Operating Modes:
Weighing, counting, animal/dynamic weighing, checkweighing, percent weighing, filling, parts counting, totalization, formulation, differential weighing, density determination, peak hold, ingredient costing, SQC

Power:
AC adapter input: 100 to 240 VAC 0.6 A 50/60 Hz

Stabilization Time:
Approx. 1 second

Calibration:
AutoCal™ at 1.5 °C temperature change, 11 hours, and external calibration

Temperature:
Operating:
14 °F to 140 °F (-10 °C to 60 °C)

Est. Weight:
25 lb (12.5 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
Ex12001	12,000 g	0.1 g	±0.1 g	±0.2 g	14.84 × 12.24 in (377 × 311 mm)	14.84 × 4.72 × 17.44 in (377 × 120 × 443 mm)	**157235**	$6,990.00
Ex24001	24,000 g	0.1 g	±0.1 g	±0.2 g	14.84 × 12.24 in (377 × 311 mm)	14.84 × 4.72 × 17.44 in (377 × 120 × 443 mm)	**157236**	$8,520.00
Ex35001	35,000 g	0.1 g	±0.1 g	±0.2 g	14.84 × 12.24 in (377 × 311 mm)	14.84 × 4.72 × 17.44 in (377 × 120 × 443 mm)	**157237**	$9,990.00

Options/Accessories

Part #	Model #	Description	Price
157238	30078082	Tower mount display	$264.00
77712	80500524	RS-232 cable, PC 25-pin to EX	$336.00
70406	80500525	RS-232 cable, PC 9-pin to EX	$354.00
156234	46001724	Multi-range AC adapter	$90.00
156235	46001780	International plug set	$45.00



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Triple Beam

Standard Features

- Notched and tiered beams for easy reading
- Positive poise positioning for repeatability
- Magnetically damped
- Zero adjust compensator
- Optional tare beam vernier dial

Specifications

Tare Range:
710-T0: 225 g
760-00: 225 g

Pan Design:
710-00: Stainless steel pan
710-T0: Stainless steel pan with tare
720-00: Polypropylene scoop
750-S0: Stainless steel plate
760-00: Stainless steel plate with tare
720-S0: Stainless steel scoop

Calibration:
Front beam: 10 × 0.1 g
Middle beam: 500 × 100 g
Rear beam: 100 × 10 g

Est. Weight:
8 lb (3.6 kg)

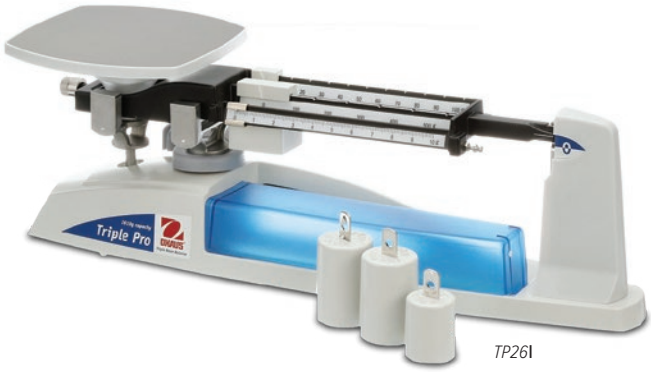
Warranty:
Five-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
710-00	610 g	0.1 g	Ø 6 in (152 mm)	18 × 12 × 9 in (457 × 305 × 229 mm)	**33350**	$522.00
710-T0	610 g	0.1 g	Ø 6 in (152 mm)	18 × 12 × 9 in (457 × 305 × 229 mm)	**33351**	$606.00
720-00	610 g	0.1 g	-	18 × 12 × 9 in (457 × 305 × 229 mm)	**33352**	$606.00
750-S0	610 g	0.1 g	Ø 6 in (152 mm)	18 × 12 × 9 in (457 × 305 × 229 mm)	**33355**	$300.00
760-00	610 g	0.1 g	Ø 6 in (152 mm)	18 × 12 × 9 in (457 × 305 × 229 mm)	**33357**	$534.00
720-S0	610 g	0.1 g	-	18 × 12 × 9 in (457 × 305 × 229 mm)	**33353**	$708.00
730-00	610 g	0.1 g	-	18 × 12 × 9 in (457 × 305 × 229 mm)	**33354**	$762.00
TP2611	2,610 g	0.1 g	5.8 × 5.8 in (147 × 147 mm)	18 × 12 × 9 in (457 × 305 × 229 mm)	**103109**	$414.00

Options/Accessories

Part #	Model #	Description	Price
33417	80780011	Rod and clamp assembly	$126.00
33447	80780015	Stainless steel scoop, 12 × 6 × 2.75 in (304 × 152 × 70 mm) footed and counterweighted for balance without tare	$228.00
33463	80780017	Vinyl dust cover	$39.00
33414	80780108	Attachment weight set, metric	$126.00



TP26I



Triple Beam Pro with Attachment Weight

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Harvard Trip Series

Standard Features

- Highly versatile, rugged and accurate
- Two-pan design ideal for comparative weighing
- Built-in sliding masses
- Roberval principle
- Magnetic damping
- Comparative weighing

Specifications

Pan Design:
Two pans
Stainless steel plate

Calibration:
Top beam: 10 × 0.1 lb
Bottom beam: 200 × 10 g

Warranty:
Five-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Dimensions	Part #	List Price
1450-SD	2,000 g	0.1 g	6 in (152 mm)	25 × 18 × 22 in (160 × 240 × 140 mm)	**33364**	$678.00
1550-SD	2,000 g	0.1 g	6 in (152 mm)	25 × 18 × 22 in (160 × 240 × 140 mm)	**33367**	$468.00
1560-SD	2,000 g	0.1 g	6 in (152 mm)	25 × 18 × 22 in (160 × 240 × 140 mm)	**33368**	$756.00

Options/Accessories

Part #	Model #	Description	Price
33461	80850262	Vinyl dust cover	$39.00
33417	80780011	Rod and clamp assembly	$126.00



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Dial-O-Gram® and Cent-O-Gram®

Standard Features

- 0.01 g or 0.1 g sensitivity
- Equipped for specific gravity weighing
- Four-tiered notched beams
- Easy-to-read vernier dial on model 310
- See-through poise on model 311
- High precision and remarkable value
- Three-point beam eliminates need for level adjustment
- Quick zeroing with zero adjust knob

Specifications

Operating Modes:
310-00: Dial
311-00: Poise

Platform:
Stainless steel (removable)
3.5 × 0.5 in (89 × 13 mm)

Calibration:
Front beam: 225 g tare
Middle beam: 500 × 100 g
Ream beam: 100 × 10 g
Dial: 10 × 0.1 g

Est. Weight:
5 lb (2.3 kg)

Warranty:
Five-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Part #	List Price
310-00	310 g	0.01 g	6 in (152 mm)	**33371**	$726.00
311-00	311 g	0.01 g	6 in (152 mm)	**33370**	$612.00
1650-00*	610 g	0.1 g	6 in (152 mm)	**33361**	$654.00
1650-WO*	2,610 g	0.1 g	6 in (152 mm)	**33362**	$750.00
1610-00*	610 g	0.1 g	6 in (152 mm)	**33360**	$750.00

Options/Accessories

Part #	Model #	Description	Price
33420	80780018	Test tube kit	$70.00
33462	80780005	Vinyl dust cover	$39.00
Additional OHAUS Mechanical Balance Accessories			
33414	80780108	Metric attachment mass set	$126.00
33454	80250048	Black scoop, aluminum, 4 in × 3.5 in (102 × 89 mm)	$78.00





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Heavy Duty Series

Standard Features

- Sets an industry standard for precision in high-capacity weighing
- Durable enough to resist corrosion
- Sensitive enough to weigh with a feather's touch
- Large stainless steel platform
- Lockable tare for containers up to 2,270 g
- Self-aligning bearings assure a long, maintenance-free life

Specifications

Operating Modes:
Poise

Platform:
11 in (279 mm)

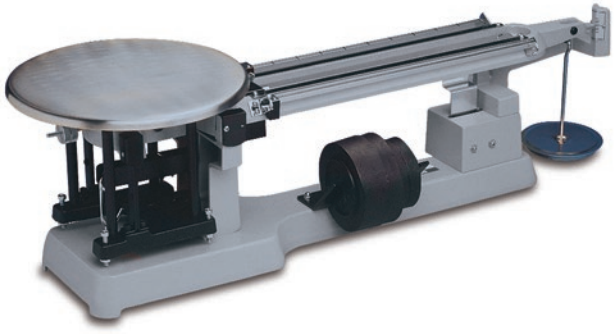
Calibrations:
Front beam: 100 × 1 g
Rear beam: 1,000 × 100 g

Est. Weight:
42 lb (19 kg)

Warranty:
Five-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Pan Size	Part #	List Price
1119-DO	20 kg	1 g	11 in (279 mm)	**33378**	$3,200.00



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MB Series

Standard Features

- Fast halogen heating element provides uniform infrared heating and durability for extended use
- Superior weighing performance with readability up to 0.001 g, 0.01% moisture
- Powerful software for simple operation
- Large, backlit liquid crystal display (LCD) for easy viewing (MB23, MB27)
- Bright, easy-to-read touchscreen display (MB90, MB120)
- GLP/GMP compliant format when printed results are required
- RS-232 interface for connecting to printer or PC
- Multi-language display text (English, Spanish, French)

Specifications

Moisture Range:
110 g: 0.1% to 100%
90 g: 0.05% to 100%
120 g: 0.01% to 100% (0.01% to 100% for regain mode)

Power:
120 V AC Adapter

Heater Type:
110 g: Infrared (no glass)
90 to 120 g: Halogen

Timer:
110 to 90 g: 1 to 99 minutes in 30 seconds to 60 minute increments
90 g: 1 to 120 minutes in 30 seconds to 60 minute increments, 1 minute increments from 60 to 120 minutes
120 g: 1 to 120 minutes in 10 second increments

Temperature:
Operating:
110 to 90 g: 41 °F to 104 °F (5 °C to 40 °C)
90 to 120 g: 50 °F to 104 °F (10 °C to 40 °C)

Est. Weight:
14 lb (6.3 kg)

Warranty:
Two-year limited

Return Policy:
OHAUS standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Pan Size	Dimensions	Part #	List Price
83999801	110 g	0.01 g	3 g sample-0.3% 10 g sample-0.1%	3.5 in (Ø 90 mm)	7.5 × 6.0 × 14 in (191 × 152 × 356 mm)	**109522**	$5,160.00
30251683	90 g	0.001 g	3 g sample-0.2% 10 g sample-0.05%	3.5 in (Ø 90 mm)	6.5 × 5 × 11 in (165 × 127 × 279 mm)	**178254**	$3,825.00
30241165	120 g	0.001 g	3 g sample-0.05% 10 g sample-0.015%	3.5 in (Ø 90 mm)	8.3 × 7.7 × 14 in (211 × 196 × 356 mm)	**178256**	$8,760.00

Options/Accessories

Part#	Model #	Description	Price
70401	11113857	Temperature calibration kit	$1,008.00
70402	80850087	Pads, glass fiber, 200/box	$180.00
70403	80850086	Sample pans, 80/box, 90 mm diameter	$114.00
70404	80850088	Reusable sample pans, 3/box	$348.00
70406	80500525	Cable, 9-pin serial extension	$354.00
191875	80850043	Security device	$426.00
67413	80850080	WinWedge® TAL Software	$760.00



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Cubis® II Series MCA

Standard Features

- Large, high-end, 7 in color touchscreen TFT display in 16:9 format
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 interface for connecting to printer or PC
- M/DH models: Automatic glass draft shield
- F models: Manual stainless steel draft shield

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton pound/ounce, micrograms (see technical manual for complete listing)

Operating Modes:
Mass unit conversion, SQ min function, ISO-cal function, Density determination (buoyancy method only with MSE), calculation, averaging, formulation, percent weighing, totalizing, counting, customized identification, statistics, time control function, second tare memory, over/under checkweighing

Power:
120 VAC adapter auto ranging

Stabilization Time:
2.7S-2S00-M/F: 7 seconds
6.6S-2S00-M/F, 3.6P-2S00-M: 5 seconds
66S-000-DH, 66P-000-DH, 36S-000-DH, 36P-000-DH: 3.5 seconds

Calibration Weight:
2.7S-2S00-M/F: 2 g
6.6S-2S00-M/F: 5 g
3.6P-2S00-M: 3 g
66S-000-DH, 66P-000-DH: 50 g (E2)
36S-000-DH, 36P-000-DH: 20 g (E2)

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Est. Weight:
30 lb

Warranty:
Ten-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
Cubis II								
MCA2.7S- 2S00-M	2.1 g	0.0001 mg	0.25 µg	0.9 µg	Ø 0.8 in (20 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	**195682**	$52,321.50
MCA6.6S- 2S00-M	6.1 g	0.001 mg	0.001 mg	4 µg	Ø 1.2 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	**195687**	$41,140.00
MCA6.6S- 2S00-F	6.1 g	0.001 mg	0.001 mg	4 µg	Ø 1.9 in (50 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 0.6 in (15 mm)	**195690**	$42,542.50
MCA3.6P- 2S00-M	1.1 g 2.1 g 3.1 g	0.001 mg 0.002 mg 0.005 mg	0.003 0.004 0.005 mg	4 µg	Ø 1.2 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	**195692**	$31,724.00
Cubis I								
MCA66SI-S00-3	61 g	0.001 mg	0.0015 mg 0.004 mg	0.020 mg	1.18 in / 1.97 in (30 mm/50 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 7.13 in (181 mm)	**223107**	$55,302.50
MCA66P-3S00-DMDS	12 g 61 g	0.001 mg 0.01 mg	0.002 mg 0.010 mg	0.020 mg	1.18 in / 1.97 in (30 mm/50 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 7.13 in (181 mm)	**223108**	$48,015.00
MCA36S-3S00-MDS	32 g	0.001 mg	0.0015 mg 0.002 mg	0.015 mg	1.18 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 7.13 in (181 mm)	**223109**	$45,716.00
MCA36P-3S00-MDS	10.1 g 32 g	0.001 mg 0.01 mg	0.0015 mg 0.008 mg	0.015 mg	1.18 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 7.13 in (181 mm)	**223110**	$39,006.00

Options/Accessories

Part #	Model #	Description	Price
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	$308.00
156908	6900900	Cord, power 220 V EU	$50.00



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Cubis® II Series MCE

Standard Features

- State-of-the-art, TFT touchscreen operation
- Fast stabilization time
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton pound/ounce, micrograms (see technical manual for complete listing)

Operating Modes:
Mass unit conversion, SQ min function, ISO-cal function, density determination (buoyancy method only with MSE), calculation, averaging, formulation, percent weighing, totalizing, counting, customized identification, Statistics, time control function, second tare memory, over/under checkweighing

Power:
120 VAC adapter auto ranging

Stabilization Time:
2.7S-2S00-M/F: 7 seconds
6.6S-2S00-M/F, 3.6P-2S00-M: 5 seconds

Calibration Weight:
2.7S-2S00-M/F: 2 g
6.6S-2S00-M/F: 5 g
3.6P-2S00-M: 3 g

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Est. Weight:
30 lb

Warranty:
Ten-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MCE2.7S- 2S00-M	2.1 g	0.0001 mg	0.25 µg	0.9 µg	Ø 0.8 in (20 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	**195680**	$51,227.00
MCE6.6S- 2S00-M	6.1 g	0.001 mg	0.001 mg	4 µg	Ø 1.2 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	**195686**	$40,051.00
MCE6.6S- 2S00-F	6.1 g	0.001 mg	0.001 mg	4 µg	Ø 1.9 in (50 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 0.6 in (15 mm)	**195689**	$41,453.50
MCE3.6P- 2S00-M	1.1 g 2.1 g 3.1 g	0.001 mg 0.002 mg 0.005 mg	0.003 mg 0.004 mg 0.005 mg	4 µg	Ø 1.2 in (30 mm)	7.55 × 12.72 × 3.46 in (192 mm × 323 mm × 88 mm) Chamber Height: 2.75 in (70 mm)	**195693**	$30,629.50

Options/Accessories

Part #	Model #	Description	Price
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	$308.00
156908	6900900	Cord, power 220 V EU	$50.00



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Cubis® II MCA Series

Standard Features

- Large, high-end, 7 in color touchscreen TFT display in 16:9 format
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton pound/ounce, micrograms (see technical manual for complete listing)

Operating Modes:
Mass unit conversion, SQ nin function, ISO-cal function, density determination (buoyancy method only with MSE), calculation, averaging, formulation, percent weighing, totalizing, counting, customized identification, statistics, time control function, second tare memory, over/under checkweighing

Power:
120 VAC adapter auto ranging

Stabilization Time:
2 seconds

Calibration Weight:
225S, 225P: 200 g
125P: 100 g

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Est. Weight:
30 lb

Warranty:
Ten-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
MCA225S	220 g	0.01 mg	0.025 mg	0.1 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195698**	$19,195.00
MCA225P	60 g 120 g 220 g	0.01 mg 0.02 mg 0.05 mg	0.015 mg 0.04 mg	0.15 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195802**	$16,720.00
MCA125P	60 g 120 g	0.01 mg 0.1 mg	0.015 mg 0.06 mg	0.15 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195803**	$12,072.50

Options/Accessories

Part #	Model #	Description	Price
Consult	DA	Automatic motorized draft shield for analytical balances (factory installed)	Consult
Consult	DI	Automatic motorized draft shield for analytical balances, with integrated ionizer (factory installed)	Consult
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	$308.00
156908	6900900	Cord, power 220 V EU	$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port	Consult



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Cubis® II MCE Series

Standard Features

- State-of-the-art, TFT touchscreen operation
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton pound/ounce, micrograms (see technical manual for complete listing)

Operating Modes:
Mass unit conversion, SQ min function, ISO-cal function, density determination (buoyancy method only with MSE), calculation, averaging, formulation, percent weighing, totalizing, counting, customized identification, Statistics, time control function, second tare memory, over/under checkweighing

Power:
120 VAC adapter auto ranging

Stabilization Time:
2 seconds

Calibration Weight:
225S, 225P: 200 g
125P: 100 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Est. Weight:
30 lb (13.6 kg)

Warranty:
Ten-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Weighing Chamber	Dimensions	Part #	List Price
MCE225S	220 g	0.01 mg	0.025 mg	0.1 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in 410 × 249 × 370 mm)	**195694**	$19,580.00
MCE225P	60 g 120 g 220 g	0.01 mg 0.02 mg 0.05 mg	0.015 mg 0.04 mg	0.15 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in 410 × 249 × 370 mm)	**195797**	$16,912.50
MCE125P	60 g 120 g	0.01 mg 0.1 mg	0.015 mg 0.06 mg	0.15 mg	3.3 × 3.3 in (85 × 85 mm)	8 × 8 × 10.2 in (205 × 205 × 261 mm)	16 × 9.8 × 14.6 in 410 × 249 × 370 mm)	**195798**	$11,880.00

Options/Accessories

Part #	Model #	Description	Price
Consult	DA	Automatic motorized draft shield for analytical balances (factory installed)	Consult
Consult	DI	Automatic motorized draft shield for analytical balances, with integrated ionizer (factory installed)	Consult
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100-240 V	$308.00
156908	6900900	Cord, power 220 V EU	$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS2 port	Consult



Quintix/Secura Series

Standard Features

- Color capacitive touch with swipe technology
- Simple touch technology
- Monolithic and strain gauge technology
- Aluminum die-cast base, ABS housing
- Integrated level-control
- Mini-USB
- Weigh below hook
- GLP conformance with built-in time and date
- Time and date

SECURA OPTIONS

- Internal adjustment weight
- Opto-electronic leveling system
- Sqmin safety program
- Analytical draft support ring

Specifications

Weighing Units:
Gram, kilogram, carat, pound, ounce, troy ounce, Hong Kong tael, Singapore tael, Taiwan tael, grain, pennyweights, milligram, parts per pound, China teal, mommes, Austrian carat, tola, baht, mesghal and newton

Operating Modes:
Mass unit conversion, counting, percent weighing, averaging

Display Type:
LCD

Power:
12 to 15 VDC, 4.5 W
AC adapter, 115 to 240 V

Frequency:
50/60 Hz

Minimum Weight per USP:
Secura 125-1S, Secura 225D-1: 25 mg
Secura 324-1S: 160 mg

External Calibration Weight:
Quintix 65-1S: 50 g
Quintix 125D-1S: 100 g
Secura 125-1S: 100 g
Secura 225D-1S: 200 g

Stabilization Time:
Quintix 65-1S: 6 seconds
Quintix 125D-1S: 6/2 seconds
Secura 125-1S: 6 seconds
Secura 225D-1S: 6/2 seconds
Secura 324-1S: 2 seconds

Temperature:
Operating:
5 °C to 45 °C (41 °F to 113 °F)

Humidity:
Less than 95% RH

Est. Weight:
18 lb (7.8 kg)

Warranty:
Two-year manufacturer

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
Quintix									
QUINTIX165-1S	60 g	0.01 mg	0.04 mg	0.1 mg	8.5 in (218 mm)	3.5 in (80 mm)	14.8 × 8.4 × 12.4 in (376 × 214 × 316 mm)	**170634**	$8,635.00
QUINTIX125D-1S	60 g 120 g	0.01 mg 0.1 mg	0.04 mg 0.07 mg	0.1 mg 0.2 mg	8.5 in (218 mm)	3.5 in (80 mm)	14.8 × 8.4 × 12.4 in (376 × 214 × 316 mm)	**170635**	$9,020.00
Secura									
SECURA125-1S	60 g 120 g	0.01 mg 0.1 mg	0.001 g	0.1 mg	8.5 in (218 mm)	3.15 in (80 mm)	14.8 × 8.4 × 12.4 in (376 × 214 × 316 mm)	**170636**	$9,927.50
SECURA225D-1S	120 g 220 g	0.01 mg 0.1 mg	0.001 g	0.1/0.2 mg	8.5 in (218 mm)	3.15 in (80 mm)	14.8 × 8.4 × 12.4 in (376 × 214 × 316 mm)	**170380**	$10,395.00

Options/Accessories

Part #	Model #	Description	Price
155847	YCC03-D09	Adapter cable, USB to RS-232	$90.20



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Cubis® II MCA Series

Standard Features

- 7 in color touchscreen TFT display in 16:9 format
- Modular design
- User-configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton pound/ounce, micrograms. (see technical manual for complete listing)

Operating Modes:
Mass unit conversion, SQ min function, ISO-cal function, Density determination (buoyancy method only with MSE), calculation, averaging, formulation, percent weighing, totalizing, counting, customized identification, statistics, time control function, second tare memory, over/under checkweighing

Power:
120 VAC adapter auto ranging

Stabilization Time:
Approx. 1 second

Calibration Weight:
124S: 100 g
224S: 200 g
324S / P: 300 g
524S / P: 500 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Est. Weight:
30 lb (13.6 kg)

Warranty:
Ten-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
MCA with TFT Color Touchscreen									
MCA324P	80 g 160 g 320 g	0.1 mg 0.2 mg 0.5 mg	0.1 mg 0.2 mg 0.4 mg	0.5 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195805**	$12,292.50
MCA524P	120 g 240 g 520 g	0.1 mg 0.2 mg 0.5 mg	0.1 mg 0.2 mg 0.5 mg	0.5 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195804**	$12,650.00
MCA124S	120 g	0.1 mg	0.1 mg	0.2 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195702**	$10,395.00
MCA224S	220 g	0.1 mg	0.07 mg	0.2 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195701**	$11,990.00
MCA324S	320 g	0.1 mg	0.1 mg	0.3 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195700**	$13,667.50
MCA524S	520 g	0.1 mg	0.1 mg	0.4 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195699**	$15,647.50

Options/Accessories

Part #	Model #	Description	Price
Consult	DA	Automatic motorized draft shield for analytical balances (factory installed)	Consult
Consult	DI	Automatic motorized draft shield for analytical balances, with integrated ionizer (factory installed)	Consult
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	$308.00
156908	6900900	Cord, power 220 V EU	$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port	Consult



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Cubis® II MCE Series

Standard Features

- State-of-the-art TFT touchscreen operation
- Modular design
- User-configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton pound/ounce, micrograms. (see technical manual for complete listing)

Operating Modes:
Mass unit conversion, SQ min function, ISO-cal function, density determination (buoyancy method only with MSE), calculation, averaging, formulation, percent weighing, totalizing, counting, customized identification, statistics, time control function, second tare memory, over/under checkweighing

Power:
120 V AC adapter auto ranging

Stabilization Time:
1 second

Calibration Weight:
124S: 100 g
224S: 200 g
324S/P: 300 g
524S/P: 500 g

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Est. Weight:
30 lb (13.6 kg)

Warranty:
Ten-year Limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Weighing Chamber	Pan Size	Dimensions	Part #	List Price
MCE with TFT Touchscreen									
MCE324P	80 g 160 g 320 g	0.1 mg 0.2 mg 0.5 mg	0.1 mg 0.2 mg 0.4 mg	0.5 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195801**	$11,110.00
MCE524P	120 g 240 g 520 g	0.1 mg 0.2 mg 0.5 mg	0.1 mg 0.2 mg 0.5 mg	0.5 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195800**	$11,467.50
MCE124S	120 g	0.1 mg	0.1 mg	0.2 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195697**	$9,212.50
MCE224S	220 g	0.1 mg	0.07 mg	0.2 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195696**	$10,807.50
MCE324S	320 g	0.1 mg	0.1 mg	0.3 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195695**	$12,485.00
MCE524S	520 g	0.1 mg	0.1 mg	0.4 mg	8 × 8 × 10.2 in (205 × 205 × 261 mm)	3.3 × 3.3 in (85 × 85 mm)	16 × 9.8 × 14.6 in (410 × 249 × 370 mm)	**195799**	$14,465.00

Options/Accessories

Part #	Model #	Description	Price
Consult	DA	Automatic motorized draft shield for analytical balances (factory installed)	Consult
Consult	DI	Automatic motorized draft shield for analytical balances, with integrated ionizer (factory installed)	Consult
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	$308.00
156908	6900900	Cord, power 220 V EU	$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port	Consult



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Entris® II Series Basic Essential

Standard Features

- Backlit LED touchscreen
- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Below balance weighing

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton (see technical manual for complete listing)

Operating Modes:
Weighing, density, percentage, counting, mass unit conversion

Power:
AC adapter, 115 to 240 V, US plug

Stabilization Time:
2.5 seconds

Calibration Weight:
BCE64I-1S: 50 g
BCE124I-1S: 100 g
BCE224I-1S: 200 g

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Humidity:
15% to 80% for temperatures up to 31 °C

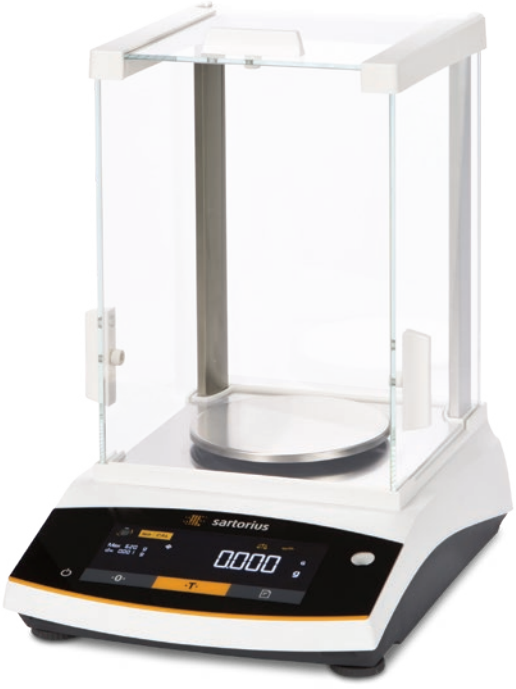
Est. Weight:
13.7 lb (6.2 kg)

Warranty:
Two-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCE64I-1S	60 g	0.1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	9.1 × 11.9 × 13 in (230 × 303 × 330 mm)	**197392**	$3,300.00
BCE124I-1S	120 g	0.1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	9.1 × 11.9 × 13 in (230 × 303 × 330 mm)	**197393**	$3,740.00
BCE224I-1S	220 g	0.1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	9.1 × 11.9 × 13 in (230 × 303 × 330 mm)	**197394**	$4,235.00

Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	$1,700.00
31103	6906937	Paper rolls, one roll	$89.10
31106	6906918	Ink ribbon cassette	$126.50
201911	YCC-D09MF	Data Cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	$100.10
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	$72.60
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-0CE printer)	$79.20



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Entris® II Series Basic Advanced

Standard Features

- Graphic touchscreen
- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Below balance weighing

Specifications

Weighing Modes:
Gram, kilogram, carat, pound, ounce, troy ounce, Hong Kong tael, Singapore tael, Taiwan tael, grain, pennyweights, milligram, parts per pound, China teal, mommes, Austrian carat, tola, baht, mesghal, tons, pounds/ounces, newton

Operating Modes:
Weighing, density, percentage, counting, mass unit conversion, mixing, statistics, components, animal weighing, checkweighing, peak hold and pipette test

Power:
AC adapter, 115 to 240 V, US plug

Stabilization Time:
BCA64I-1S, BCA124I-1S: 2.5 seconds
BCA224I-1S: 1.3 seconds
BCA324I-1S: 1.0 seconds

Calibration Weight:
BCA64I-1S: 50 g
BCA124I-1S: 100 g
BCA224I-1S, BCA324I-1S: 200 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
15% to 80% for temperatures up to 31 °C

Est. Weight:
13.7 lb (6.2 kg)

Warranty:
Two-year limited

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCA64I-1S	60 g	0.1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**202468**	$4,592.50
BCA124I-1S	120 g	0.1 mg	±0.1 mg	±0.2 mg	3.5 in (90 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**202469**	$5,005.00
BCA224I-1S	220 g	0.1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**202471**	$5,555.00
BCA324I-1S	320 g	0.1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**202473**	$6,105.00

Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	$1,700.00
31103	6906937	Paper rolls, one roll	$89.10
31106	6906918	Ink ribbon cassette	$126.50
201911	YCC-D09MF	Data cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	$100.10
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	$72.60
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-0CE printer)	$79.20



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Entris® II Series Basic Essential

Standard Features

- Backlit LED touchscreen, 15 mm digits
- User-friendly operation
- Stainless steel pan
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 connectivity
- Weigh below hook

Specifications

Weighing Units:
Gram, kilogram, carat, pound, ounce, troy ounce, Hong Kong Tael, Singapore tael, Taiwan tael, grain, pennyweights, milligram, parts per pound, China teal, mommes, Austrian carat, tola, baht, mesghal, tons, pounds, ounces, newton

Operation Modes:
Weighing, density, percentage, counting, mass unit conversion

Power:
AC adapter, 115 to 240 V, US plug

Stabilization Time:
2.5 seconds

External Calibration Weight:
BCE124-1NUS: 100 g
BCE224-1NUS, BCE324-1NUS: 200 g
BCE623-1NUS, BCE653-1NUS, BCE622-1NUS, BCE1202-1NUS: 500 g
BCE3202-1NUS, BCE4202-1NUS, BCE5201-1NUS, BCE6202-1NUS: 5,000 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
15% to 80% for temperatures up to 31 °C

Est. Weight:
13.7 lb (6.2 kg)

Warranty:
Two-year limited

Approval:
NTEP 22-017

Model	Capacity	Readability	NTEP Repeatability	Pan Size	Dimensions	Part #	List Price
BCE124-1NUS	120 g	0.1 mg	1 mg	3.5 in (90 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208212**	$3,492.50
BCE224-1NUS	220 g	0.1 mg	1 mg	3.5 in (90 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208213**	$3,932.50
BCE323-1NUS	320 g	1 mg	10 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208214**	$2,046.00
BCE623-1NUS	620 g	1 mg	10 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208215**	$3,025.00
BCE653-1NUS	650 g	1 mg	10 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208216**	$3,300.00
BCE622-1NUS	620 g	10 mg	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208217**	$1,573.00
BCE1202-1NUS	1,200 g	10 mg	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208218**	$1,892.00
BCE3202-1NUS	3,200 g	10 mg	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208219**	$2,200.00
BCE4202-1NUS	4,200 g	10 mg	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208220**	$2,508.00
BCE5201-1NUS	5,200 g	0.1 g	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208222**	$1,892.00
BCE6202-1NUS	6,200 g	10 mg	0.1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**208221**	$3,300.00
BCE8201-1NUS	8,200 g	0.1 g	1 g	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**213481**	$2,200.00

Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	$1,700.00
31103	6906937	Paper rolls, one roll	$89.10
31106	6906918	Ink ribbon cassette	$126.50
201911	YCC-D09MF	Data cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	$100.10
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	$72.60
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-0CE printer)	$79.20



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Cubis® II Series MCA

Standard Features

- Large, high-end, 7-inch color touchscreen TFT display in 16:9 format
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton pound/ounce, micrograms (see technical manual for complete listing)

Operating Modes:
Mass unit conversion, SQ min function, ISO-cal function, Density determination (buoyancy method only with MSE), calculation, averaging, formulation, percent weighing, totalizing, counting, customized identification, statistics, time control function, second tare memory, over/under checkweighing

Power:
120 V AC adapter auto ranging

Stabilization Time:
3203S, 2203S, 2203P, 1203S, 5203S, 5203P: 1 second
623S, 623P, 323S: 0.8 seconds

Calibration Weight:
3203S, 2203S: 2,000 g
2203P, 1203S: 1,000 g
5203S, 5203P: 500 g
623S, 623P: 500 g
323S: 200 g

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Est. Weight:
17 lb (7.7 kg)

Warranty:
Ten-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MCA623P	150 g 300 g 620 g	1 mg 2 mg 5 mg	1 mg 2 mg 4 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195811**	$9,102.50
MCA323S	320 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195716**	$8,937.50
MCA623S	620 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195715**	$10,202.50
MCA1203S	1,200 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195713**	$12,650.00
MCA2203P	1,010 g 2,200 g	1 mg 10 mg	1 mg 6 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195809**	$13,805.00
MCA2203S	2,200 g	1 mg	1 mg	3 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195712**	$14,217.50
MCA3203S	3,200 g	1 mg	1/6 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195711**	$13,200.00
MCA5203S	5,200 g	1 mg	1 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195714**	$16,720.00
MCA5203P	5,200 g 2,400 g 1,200 g	5 mg 2 mg 1 mg	1 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195810**	$16,032.50

Options/Accessories

Part #	Model #	Description	Price
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	$308.00
156908	6900900	Cord, power 220 V EU	$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult
Consult	DA, DR, DI or DU	Other draft shields available	Consult



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Cubis® II Series MCE

Standard Features

- State-of-the-art, TFT touchscreen operation
- Modular design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Manual glass draft shield
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton pound/ounce, micrograms (see technical manual for complete listing)

Operating Modes:
Mass unit conversion, SQ min function, ISO-cal function, density determination (buoyancy method only with MSE), calculation, averaging, formulation, percent weighing, totalizing, counting, customized identification, statistics, time control function, second tare memory, over/under checkweighing

Power:
120 V AC adapter (auto ranging)

Stabilization Time:
3203S, 2203S, 2203P, 1203S, 5203S, 5203P: 1 second
623S, 623P, 323S: 0.8 seconds

Calibration Weight:
3203S, 2203S: 2,000 g
2203P, 1203S: 1,000 g
5203S, 5203P: 500 g
623S, 623P: 500 g
323S: 200 g

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Est. Weight:
17 lb (7.7 kg)

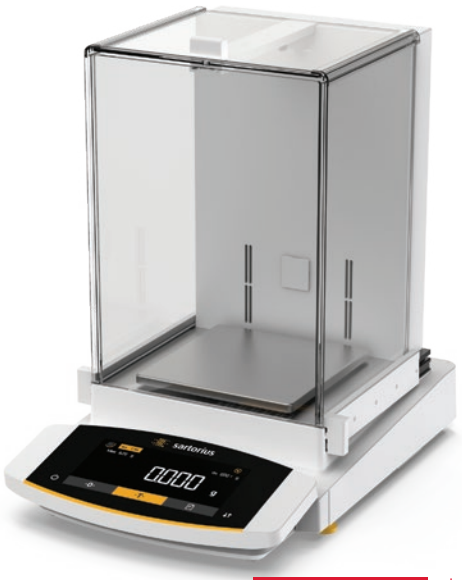
Warranty:
Ten-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MCE323S	320 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195709**	$7,782.50
MCE623P	150 g 300 g 620 g	1 mg 2 mg 5 mg	1/2/4 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195808**	$7,947.50
MCE623S	620 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195707**	$9,020.00
MCE5203P	5,200 g 2,400 g 1,200 g	5 mg 2 mg 1 mg	1 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195807**	$14,850.00
MCE5203S	5,200 g	1 mg	1 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195706**	$15,537.50
MCE1203S	1,200 g	1 mg	0.7 mg	2 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195705**	$11,495.00
MCE2203P	1,010 g 2,200 g	1 mg 10 mg	1 mg 6 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195806**	$12,650.00
MCE2203S	2,200 g	1 mg	1 mg	3 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195704**	$13,090.00
MCE3203S	3,200 g	1 mg	1 mg 6 mg	5 mg	5.5 × 5.5 in (140 × 140 mm)	16 × 9.8 × 11 in (410 × 249 × 281 mm)	**195703**	$13,200.00

Options/Accessories

Part #	Model #	Description	Price
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100-240 V	$308.00
156908	6900900	Cord, power 220 V EU	$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult
Consult	DA, DR, DI or DU	Other draft shields available	Consult



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Entris® II Series Basic Essential

Standard Features

- Backlit LED touchscreen
- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Weigh below hook

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton (see technical manual for complete listing)

Operating Modes:
Weighing, density, percentage, counting, mass unit conversion

Power:
AC adapter, 115 to 240 V, US plug

Stabilization Time:
BCE223I-1S: 1.3 seconds
BCE323I-1S: 1.1 seconds
BCE423I-1S, BCE623I-1S, BCE622I-1S: 1.0 seconds
BCE653I-1S: 1.5 seconds

Calibration Weight:
BCE223I-1S, BCE323I-1S, BCE423I-1S: 200 g
BCE623I-1S, BCE653I-1S: 500 g

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Humidity:
15% to 80% for temperatures up to 31 °C

Est. Weight:
13.7 lb (6.2 kg)

Warranty:
Two-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCE223I-1S	220 g	0.001 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197395**	$2,101.00
BCE323I-1S	320 g	0.001 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197396**	$2,409.00
BCE423I-1S	420 g	0.001 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197397**	$3,025.00
BCE623I-1S	620 g	0.001 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197398**	$3,300.00
BCE653I-1S	650 g	0.001 g	±1 mg	±2 mg	4.7 in (120 mm)	9.1 × 11.9 × 3.4 in (230 × 303 × 87 mm)	**197400**	$3,602.50

Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	$1,700.00
31103	6906937	Paper rolls, one roll	$89.10
31106	6906918	Ink ribbon cassette	$126.50
201911	YCC-D09MF	Data cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	$100.10
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	$72.60
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-0CE printer)	$79.20



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Entris® II Series Basic Advanced

Standard Features

- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Below balance weighing

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton (see technical manual for complete listing)

Operating Modes:
Weighing, density, percentage, counting, mass unit conversion, mixing, statistics, components, animal weighing, checkweighing, peak hold and pipette test

Power:
AC adapter, 115 to 240 V, US plug

Stabilization Time:
BCA223I-1S: 2.5 seconds
BCA323I-1S: 1.1 seconds
BCA423I-1S, BCA623I-1S: 1.0 seconds
BCA1203I-1S: 1.5 seconds

Calibration Weight:
BCA223I-1S, BCA323I-1S: 200 g
BCA423I-1S, BCA623I-1S, BCA1203I-1S: 500 g

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Humidity:
15% to 80% for temperatures up to 31 °C

Est. Weight:
BCA223I-1S, BCA323I-1S,
BCA423I-1S: 13.7 lb (6.2 kg)
BCA623I-1S: 13.9 lb (6.3 kg)
BCA1203I-1S: 12 lb (5.4 kg)

Warranty:
Two-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCA223I-1S	220 g	1 mg	±0.1 mg	±0.2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**202470**	$2,942.50
BCA323I-1S	320 g	1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**202472**	$3,190.00
BCA423I-1S	420 g	1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**202474**	$3,492.50
BCA623I-1S	620 g	1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**202475**	$4,152.50
BCA1203I-1S	1,200 g	1 mg	±1 mg	±2 mg	4.7 in (120 mm)	20.67 × 19.49 × 15.75 in (525 × 495 × 400 mm)	**202478**	$5,555.00

Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	$1,700.00
31103	6906937	Paper rolls, one roll	$89.10
31106	6906918	Ink ribbon cassette	$126.50
201911	YCC-D09MF	Data Cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	$100.10
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	$72.60
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-0CE printer)	$79.20



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Cubis® II Series MCA

Standard Features

- Large, high-end, 7 in color touchscreen TFT display in 16:9 format
- Fast stabilization time
- Modular design
- User-configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Choice of display
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton pound/ounce, micrograms (see technical manual for complete listing)

Operating Modes:
Mass unit conversion, SQ min function, ISO-cal function, density determination (buoyancy method only with MSE), calculation, averaging, formulation, percent weighing, totalizing, counting, customized identification, statistics, time control function, second tare memory

Power:
120 V AC adapter (auto ranging)

Stabilization Time:
1202S, 2202S, 4202S, 5201S, 8201S, 12201S: 0.8 seconds
6202P, 6202S, 8202S, 10202S, 5202S, 14202S, 14202P: 1 second

Calibration Weight:
1202S: 1 kg
2202S, 4202S: 2 kg
6202S, 8202S, 5201S, 8201S: 5 kg
5202S: 5,000 g
10202S, 12201S, 14202S, 14202P: 10 kg

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Est. Weight:
21 lb (9.5 kg)

Warranty:
Ten-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MCA1202S	1,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195733**	$7,095.00
MCA2202S	2,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195732**	$7,755.00
MCA4202S	4,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195731**	$8,360.00
MCA5201S	5,200 g	100 mg	50 mg	100 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195736**	$6,105.00
MCA5202s	5,200 g	0.01 g	0.006 g	0.01 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195820**	$10,285.00
MCA6202P	1,500 g 3,000 g 6,200 g	10 mg 20 mg 50 mg	7 mg 20 mg 40 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195818**	$8,635.00
MCA6202S	6,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195730**	$9,460.00
MCA8201S	8,200 g	100 mg	50 mg	100 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195735**	$7,837.50
MCA8202S	8,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195729**	$10,560.00
MCA10202S	10,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195728**	$12,017.50
MCA12201S	12,200 g	100 mg	50 mg	200 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195734**	$8,552.50
MCA14202S	14,200 g	0.01 g	0.01 g	0.03 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195727**	$14,492.50
MCA14202P	3,500 g 7,000 g 14,200 g	0.01 g 0.02 g 0.05 g	0.05 g	0.05 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195817**	$12,677.50

Options/Accessories

Part #	Model #	Description	Price
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	$308.00
156908	6900900	Cord, power 220 V EU	$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult



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Cubis® II Series MCE

Standard Features

- State-of-the-art, TFT touchscreen operation
- Fast stabilization time
- Modular design
- User-configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- RS-232 and USB communication
- Underweigh hook

Specifications

Weighing Units:
Milligram, gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton pound/ounce, micrograms (see technical manual for complete listing)

Operating Modes:
Mass unit conversion, SQ min function, ISO-cal function, density determination (buoyancy method only with MSE), calculation, averaging, formulation, percent weighing, totalizing, counting, customized identification, Statistics, time control function, second tare memory

Power:
120 V AC adapter (auto ranging)

Stabilization Time:
1202S, 2202S, 4202S, 5201S, 8201S, 12201S: 0.8 seconds
6202P, 6202S, 8202S, 10202S, 5202S, 14202S, 14202P: 1 second

Calibration Weight:
1202S: 1 kg
2202S, 4202S: 2 kg
5201S, 6202S, 8201S, 8202S: 5 kg
5202S: 5,000 g
10202S, 12201S, 14202S, 14202P: 10 kg

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Est. Weight:
21 lb (9.5 kg)

Warranty:
Ten-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
MCE1202S	1,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195723**	$5,940.00
MCE2202S	2,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195722**	$6,572.50
MCE4202S	4,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195721**	$7,232.50
MCE5201S	5,200 g	100 mg	50 mg	100 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195726**	$4,922.50
MCE5202S	5,200 g	0.01 g	0.006 g	0.01 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195816**	$9,102.50
MCE6202P	1,500 g 3,000 g 6,200 g	10 mg 20 mg 50 mg	7 mg 20 mg 40 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195815**	$7,452.50
MCE6202S	6,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195720**	$8,305.00
MCE8201S	8,200 g	100 mg	50 mg	100 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195725**	$6,655.00
MCE8202S	8,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195719**	$9,377.50
MCE10202S	10,200 g	10 mg	7 mg	20 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195718**	$10,862.50
MCE12201S	12,200 g	100 mg	50 mg	200 mg	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195724**	$7,370.00
MCE14202s	14,200 g	0.01 g	0.01 g	0.03 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195717**	$13,310.00
MCE14202P	3,500 g 7,000 g 14,200 g	0.01 g 0.02 g 0.05 g	0.01 g 0.02 g 0.01 g	0.05 g	8.1 × 8.1 in (206 × 206 mm)	16 × 9.8 × 3.5 in (410 × 249 × 88 mm)	**195812**	$11,495.00

Options/Accessories

Part #	Model #	Description	Price
Consult	TR	Certificate of compliance and full factory test report (factory installed)	Consult
Consult	IR	Additional RS-232, 25-pin connection (factory installed)	Consult
156906	6971987	Power supply, 100 to 240 V	$308.00
156908	6900900	Cord, power 220 V EU	$50.00
Consult	IP	Additional RS-232, 9-pin connection with PS/2 port (factory installed)	Consult



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Entris® II Series Basic Essential

Standard Features

- Backlit LED touchscreen
- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Weigh below hook

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton (see technical manual for complete listing)

Operating Modes:
Weighing, density, percentage, counting, mass unit conversion

Power:
AC adapter, 115 to 240 V, US plug

Stabilization Time:
1.5 seconds

Calibration Weight:
BCE622I-1S, BCE822II-1S, BCE1202I-1S, BCE2202I-1S: 500 g
BCE2201I-1S: 2,000 g
BCE3202I-1S, BCE4202I-1S, BCE5201I-1S, BCE6202I-1S, BCE6200I-1S, BCE8201I-1S, BCE8200I-1S: 5,000 g

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Humidity:
15% to 80% for temperatures up to 31 °C

Est Weight:
BCE822II-1: 10.6 lb (4.8 kg)
BCE1202I-1S: 12 lb (5.4 kg)
BCE622I-1S, BCE2202I-1S: 13.9 lb (6.3 kg)
BCE2201I-1S, BCE3202I-1S, BCE4202I-1S, BCE5201I-1S, BCE6202I-1S, BCE6200I-1S, BCE8201I-1S, BCE8200I-1S: 12 lb (5.4 kg)

Warranty:
Two-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCE622I-1S	620 g	0.01 g	±1 mg	±2 mg	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 13 in (230 × 303 × 330 mm)	**197399**	$1,947.00
BCE822II-1S	820 g	0.01 g	±1 mg	±2 mg	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197401**	$2,101.00
BCE1202I-1S	1,200 g	0.01 g	±1 mg	±2 mg	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197402**	$2,255.00
BCE2202I-1S	2,200 g	0.01 g	±1 mg	±2 mg	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197403**	$2,409.00
BCE2201I-1S	2,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197404**	$2,101.00
BCE3202I-1S	3,200 g	0.01 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197405**	$2,552.00
BCE4202I-1S	4,200 g	0.01 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197406**	$2,860.00
BCE5201I-1S	5,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197407**	$2,255.00
BCE6202I-1S	6,200 g	0.01 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197408**	$3,602.50
BCE6200I-1S	6,200 g	1.0 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197409**	$2,101.00
BCE8201I-1S	8,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197410**	$2,552.00
BCE8200I-1S	8,200 g	1.0 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	9.1 × 11.9 × 5.4 in (230 × 303 × 136 mm)	**197411**	$2,255.00

Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	$1,700.00
31103	6906937	Paper rolls, one roll	$89.10
31106	6906918	Ink ribbon cassette	$126.50
201911	YCC-D09MF	Data cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	$100.10
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	$72.60
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-0CE printer)	$79.20



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Entris® II Series Basic Advanced

Standard Features

- User-friendly operation
- Basic applications
- Monolithic weighing systems
- Aluminum die-cast base, ABS housing
- Front level bubble
- RS-232 standard
- Below balance weighing

Specifications

Weighing Units:
Gram, kilogram, ounce, pound, carat, pennyweight, troy ounce, grain, newton (see technical manual for complete listing)

Operating Modes:
Weighing, density, percentage, counting, mass unit conversion, mixing, statistics, components, animal weighing, checkweighing, peak hold and pipette test

Power:
AC adapter, 115 to 240 V, US plug

Stabilization Time:
1.5 seconds

Calibration Weight:
BCA822I-1S, BCA1202I-1S, BCA2201I-1S: 500 g
BCA2202I-1S: 2,000 g
BCA3202I-1S, BCA4202I-1S, BCA5201I-1S, BCA6202I-1S, BCA8201I-1S, BCA10201I-1S, BCA12201I-1S: 5,000 g

Temperature:
Operating:
5 °C to 40 °C (41 °F to 104 °F)

Humidity:
15% to 80% for temperatures up to 31 °C

Est. Weight:
BCA822I-1S, BCA2201I-1S, BCA2202I-1S, BCA3202I-1S, BCA4202I-1S, BCA5201I-1S, BCA6202I-1S, BCA8201I-1S, BCA10201I-1S, BCA12201I-1S: 13.9 lb (6.3 kg)
BCA1202I-1S: 10.6 lb (4.8 kg)

Warranty:
Two-year limited

Return Policy:
Sartorius Standard Policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Linearity	Pan Size	Dimensions	Part #	List Price
BCA822I-1S	820 g	10 mg	±1 mg	±2 mg	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202476**	$2,640.00
BCA1202I-1S	1,200 g	10 mg	±1 mg	±2 mg	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202477**	$2,942.50
BCA2201I-1S	2,200 g	0.1 g	±1 mg	±2 mg	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202479**	$2,497.00
BCA2202I-1S	2,200 g	10 mg	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202480**	$3,190.00
BCA3202I-1S	3,200 g	10 mg	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202481**	$3,492.50
BCA4202I-1S	4,200 g	10 mg	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202482**	$2,600.00
BCA5201I-1S	5,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202483**	$2,805.00
BCA6202I-1S	6,200 g	10 mg	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202484**	$5,005.00
BCA8201I-1S	8,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202485**	$3,327.50
BCA10201I-1S	10,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202486**	$5,005.00
BCA12201I-1S	12,200 g	0.1 g	±0.1 g	±0.3 g	7.1 × 7.1 × 3.6 in (180 × 180 × 91 mm)	17.72 × 9.84 × 13.78 in (45 × 25 × 35 cm)	**202487**	$5,280.00

Options/Accessories

Part #	Model #	Description	Price
112261	YDP20-OCE	Data printer (printer requires power supply part number 191429)	$1,700.00
31103	6906937	Paper rolls, one roll	$89.10
31106	6906918	Ink ribbon cassette	$126.50
201911	YCC-D09MF	Data cable RS-232, DB-9M to DB-9F (For YDP20 Printer)	$100.10
204042	YEPS01-PS8	Replacement AC adapter with interchangeable plugs (included with Entris II)	$72.60
191429	YEPS01-PS4	AC adapter with interchangeable plugs (for use with YDP20-0CE printer)	$79.20



BALANCES SARTORIUS

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MA35, MA37 and MA160 Series

Standard Features

- High-speed measurements
- Effortless cleaning
- User-friendly operation
- Display of process status

Specifications

Heating Element:
MA35, MA37: Infrared metal heating element
MA160: Infrared radiation by an AURI heater, 600 W

Heating Modes:
MA35, MA37: Standard drying
MA160: Standard drying, gentle drying

Power:
120/230 VAC multi-range adapter

Display Modes for Results:
Moisture content in % M and g; dry matter in % S and g; ATRO in % M/S

Data Interface:
MA35: RS-232
MA37: Mini USB
MA160: M-Mini USB

Calibration Weight:
MA35: 30 g
MA37: 50 g
MA160: 200 g

Temperature:
Operating:
10 °C to 30 °C (50 °F to 86 °F)
Settings:
40 °C to 160 °C (104 °F to 320 °F)

Est. Weight:
MA35: 12.8 lb (5.8 kg)
MA37, MA160: 13.7 lb (6.2 kg)

Warranty:
Two-year limited

Return Policy:
Sartorius standard policy - restock fee may apply

Model	Capacity	Readability	Repeatability	Pan Size	Dimensions	Part #	List Price
MA35	35 g	0.001 g	For initial sample weight approx >1 ±0.2%; for initial sample weight >5 ±0.05%	3.5 in (90 mm)	8.8 × 14.4 × 7.5 in (224 × 366 × 191 mm)	**191983**	$3,932.50
MA37	70 g	0.001 g	For initial sample weight approx >1 ±0.2%; for initial sample weight >5 ±0.05%	3.5 in (90 mm)	8.5 × 15.7 × 8.3 in (215 × 400 × 210 mm)	**165963**	$5,500.00
MA160	200 g	0.01 g	For initial sample weight approx >1 ±0.2%; for initial sample weight >5 ±0.05%	3.5 in (90 mm)	8.5 × 15.7 × 8.3 in (215 × 400 × 210 mm)	**165964**	$6,902.50



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AbleCable®

Standard Features

- Converts serial data such as bar code reader or scale into keyboard input to software program
- Works with PC and MAC® computers
- Requires no driver installation (identifies itself as additional HID keyboard)
- Cable draws power from USB port (no external power supply needed)
- Test cable to be connected with adapter scale cable or connector
- Bluetooth® version allows connection to devices such as iPad® or Android® tablets and phones

Specifications

Power:
USB power, no external power supply

Baud Rate:
9600

Color:
Black

Cable Length:
74 in (1,880 mm)

Bluetooth Cable Length:
16 in (406 mm)

Host:
PC and MAC compliant

Connection:
DB9 male connector

Pin Out:
Pin 2: RX
Pin 3: TX
Pin 5: Ground USB-A

Part Number/Price

Part #	Description	Weight	Price
119919	RS-232/USB serial cable	1 lb	$190.00
132452	RS-232/USB serial cable plus Bluetooth®	1 lb	$275.00

Options/Accessories

Part #	Description	Price
119064	Slimline null modem, gender changer DB9 female to female	$12.50
22436	Blunt-end to DB9 female, straight cable	$70.00
50749	DB9 female to DB9 female	$60.00
130789	Null model DB9 adapter female to male	$14.50



119919



132452

Go-Between™

Standard Features

- LED onboard for testing data transmission
- Captures data and stores it on a USB flash drive (up to 8 GB not included)
- Transfer data to your PC using the USB flash drive
- Text file examples (actual text will be dependent on transmitted file)
- 02:50PM
  11/13/2012
  GROSS 58 lb
- 02:50PM
  11/13/2012
  GROSS 68 lb

Specifications

Power:
Requires 5 VDC, 2 A

Baud Rate:
9600

Data Bits:
8

Parity:
None

Customer Supplied:
Power and USB flash drive

Industrial Enclosure Option:
7.5 × 7.5 × 4.5 in
(19 × 19 × 12 cm)
Latch for lock

Warranty:
One-year limited

Part Number/Price

Part #	Description	Price
153265	go-between board, requires 5 volts	$435.00
153266	go-between industrial enclosure, requires 5 volts	$630.00
153267	go-between desk enclosure, power supply included	$525.00

Options/Accessories

Part #	Description	Price
154797	Adapter, power 5 VDC 2A 90 to 264 VAC, U.S. plug, cULus	$37.00
195607	USB flash drive, 8 GB	$9.00
130789	Null model DB9 adapter female to male	$14.50
119064	Null modem adapter, DB9 F/F	$12.50
50764	Straight cable, DB9 F/F	$72.00
66535	Null modem DB9 F/F	$48.00
22436	DB9 cable to blunt end	$70.00
15493	Cable four-conductor	$1.65/ft



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Kasota Stone Balance Slab

Standard Features

- Balance slabs
- Balance tables
- Anti-vibration



Reduces vibration and shock, ideal where tables will not fit.

Part Number/Price

Part #	Description	Price
Standard Balance Slab, Kasota Stone		
83779	15 × 20 × 3 in, 100 lb	$475.00

Kasota Stone Balance Table

Standard Features

- Balance slabs
- Balance tables
- Anti-vibration



Provides the most stable surface possible for precision instruments. Legs are reinforced with support pipe.

Part Number/Price

Part #	Description	Price
Standard Balance Table, Kasota Stone		
83778	24 × 35 × 32 in, 700 lb	$1,260.00

Granite Clean Room Table

Standard Features

- Balance slabs
- Balance tables
- Anti-vibration



Mass, density and vibration damping properties for most applications (four damping pads included).

Part Number/Price

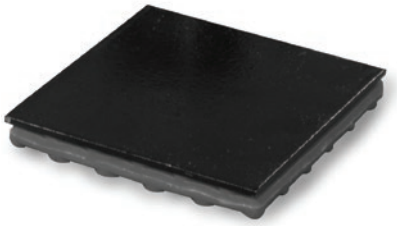
Part #	Description	Price
Clean Room Table, Granite		
83780	24 × 35 × 32 in, 600 lb	$2,850.00

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Anti-Vibration Pad

Standard Features

- Balance slabs
- Balance tables
- Anti-vibration



Part Number/Price

Part #	Description	Price
Anti-Vibration Pad		
75263	Anti-vibration pad 4 × 4 1/2 in-thick	$17.75

Scoops

Standard Features

- Aluminum
- Polypropylene
- Stainless steel



PN 33447

Part Number/Price

Part #	Description	Price
33447	Stainless steel, 12 × 6 × 2.75 in (304 × 152 × 70 mm)	$228.00
33454	Black, aluminum 4.0 × 3.5 in (102 × 89 mm)	$78.00
97250	Stainless steel scoop 11.9 × 7.4 × 1.7 in	$144.00



PN 33454

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Static Control

NRD is the industry leader for providing advanced ionization products to eliminate electrostatic discharge and static attraction. The success of NRD devices is based on unique and extremely effective ionization sources that use alpha-energy to neutralize static electricity. Unlike electrical ionization systems, NRD ion sources don't just control static, they eliminate it by providing a constant balance of ±zero volts.

The ion sources are entirely self-powered and never require any calibration or adjustment; therefore, there are no operating costs associated with them throughout their lifetime. Because NRD ion sources do not require electricity and are completely safe, they are ideal for use in any application, including highly-volatile environments.

Static charge buildup is the cause of many production problems including downtime, reduced product quality, and ultimately increased costs and reduced profits. Although the static charges cannot be seen, they are quite noticeable.

Thousands of volts of electricity can easily accumulate on the surfaces of in-process materials. This buildup can ignite combustibles, shock personnel, destroy sensitive electronic components and cause many types of production problems. In addition, static attraction of dirt, dust and other foreign matter contaminates products and process equipment, which intensifies processing problems.

NRD alpha-energy devices rapidly neutralize charged materials. This is accomplished by emitting a flood of both positively and negatively charged ions in the vicinity of the affected material. The charged material then attracts a sufficient quantity of oppositely charged ions to completely eliminate its static charge.

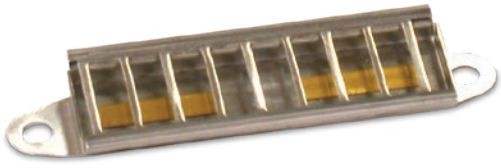
NRD alpha-energy ion sources totally eliminate static buildup, not just reduce it, as with other methods of static control. As with all types of ion sources, ionized air has absolutely no adverse effects on personnel.

Return For Disposal

The ionizers can be sent to:

NRD Static Control
2937 Alt Boulevard
Grand Island, NY 14072

The box must be clearly marked with "UN2911" on the outside, so NRD knows what to do with them. An RMA is not required, and there is no charge for a recycling fee.



1 × 3 in Ionizing Strip



1 × 1 in Ionizing Strip

1 in Static Brush





3 in Static Brush



Stand Ionizer

BALANCES ACCESSORIES

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Static Control

Ionizers

Part #	Staticmaster Part #	Description	Price
164648	4068	Mini-fan ionizer	$194.00
164649	6105	I-beam stand ionizer	$1,233.00

Static Brushes - 1 inch

Part #	Staticmaster Part #	Description	Price
76669	1C200	Static brush, 1 in	$194.00
76670	1C200R	Replacement cartridge	$125.00

Static Brushes - 3 inch

Part #	Staticmaster Part #	Description	Price
76671	3C500	Static brush, 3 in	$294.00
76672	3C500R	Replacement cartridge	$198.00

Ionizing Strips - 1 inch

Part #	Staticmaster Part #	Description	Price
76677	1U400	Ionizing unit, 1 in	$217.00
76678	1U200	Ionizing unit, 1 in	$125.00

Ionizing Strips - 3 inch

Part #	Staticmaster Part #	Description	Price
76676	2U500	Ionizing unit, 1 × 3 in	$228.00

Ionizing Strip Accessories

Part #	Staticmaster Part #	Description	Price
76679	BF1	Ionizer positioner	$131.00
76680	BF2	Ionizer positioner only - C bracket	$147.00
163601	BF3	EZ-Mount, 2U500 BF3 option mounts 2U500 to balance chamber	$22.00
163602	5060	Grounding kit, 2U500 5060 enhances static eliminating power Staticmaster 2U500	$45.00



Mini-fan Ionizer

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BELT SCALES

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Master™ 311 Belt Scale Weigh Frame

Medium to Heavy Capacity Weigh Frame



Part Number/Price

Part #	Description	Est. Weight	Price
215021	Master 311 belt scale weigh frame, 18 in belt with 75 kg load cell	125 lb	$1,300.00
215022	Master 311 belt scale weigh frame, 24 in belt with 75 kg load cell	125 lb	$1,300.00
215023	Master 311 belt scale weigh frame, 24 in belt with 150 kg load cell	125 lb	$1,300.00
215025	Master 311 belt scale weigh frame, 30 in belt with 150 kg load cell	125 lb	$1,400.00
215030	Master 311 belt scale weigh frame, 30 in belt with 250 kg load cell	125 lb	$1,400.00
215031	Master 311 belt scale weigh frame, 36 in belt with 250 kg load cell	125 lb	$1,500.00
Consult	Lifting weight kit		Consult

Please complete the Belt Scale Questionnaire on page 159 to obtain a quote

Standard Features

- Semi-modular weigh frame design
- Weigh frame without moving parts
- Fits standard conveyors
- Mounts with four bolts
- Requires weigh frame cutting for proper fit
- Minimal modifications to conveyor required

Options

- Galvanized or stainless construction
- Custom widths available
- Custom lifting weights available on request

Applications

- Mining, quarries, bulk material blending, process control and retrofit

Specifications

Belt Width:
18 to 36 in (457 to 914 mm)

Capacity:
1,500 tons per hour

Belt Speed:
Maximum 400 ft/minute (2 m/s)

Inclination:
Maximum 12 degrees

Material:
Powder coated mild steel

Accuracy System:
1%

Load Cell:
RL1218A: 50 kg, 100 kg, 250 kg

Warranty:
One-year limited

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Master™ 221DB Belt Scale Weigh Frame

Medium to Heavy Capacity Belt Scale



Part Number/Price

Part #	Description	Est. Weight	Price
163292	221DB belt scale with 50 kg load cells	143 lb	$3,500.00
163293	221DB belt scale with 100 kg load cells	143 lb	$3,500.00
163294	221DB belt scale with 200 kg load cells	143 lb	$3,500.00
202591	221DB stainless steel belt scale with 50 kg load cells	143 lb	$5,200.00
202592	221DB stainless steel belt scale with 100 kg load cells	143 lb	$5,200.00
202593	221DB stainless steel belt scale with 200 kg load cells	143 lb	$5,200.00

Please complete the Belt Scale Questionnaire on page 159 to obtain a quote

Standard Features

- Weigh frame is mounted on the outside of conveyor
- Minimal modifications to conveyor are required
- Service friendly
- Friction-free pivot supports
- Two support beams
- Fits standard conveyors
- Mounts with four bolts

Options

- Galvanized or stainless construction

Applications

- Medium to heavy capacity

Specifications

Conveyor Width:
18 to 72 in
(457 to 1,829 mm)

Capacity:
3,300 tons per hour

Maximum Belt Speed:
600 ft/minute (3 m/s)

Inclination:
Maximum 25 degrees

Material:
Powder coated mild steel

Accuracy System:
0.5% to 1%

Load Cell:
RL9018SS: 50 kg, 100 kg, 200 kg

Junction Box:
JB4SS

Warranty:
One-year limited

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Master™ 211 Belt Scale Weigh Frame

Medium to Heavy Capacity Weigh Frame



Part Number/Price

Part #	Description	Price
Consult	211 weigh frame	Consult
Consult	Lifting weight kit	Consult

Please complete the Belt Scale Questionnaire on page 159 to obtain a quote

Standard Features

- Friction-free pivot points
- One load cell carrier beam
- Fits standard conveyors
- Custom built for each application

Options

- 304/316 Stainless steel
- Dual load cells
- Dual idler
- Custom lifting weights available on request

Applications

- Medium to heavy capacity, mining and agriculture

Specifications

Conveyor Width:
20 to 80 in (500 to 2,000 mm)

Capacity:
3,000 tons per hour

Maximum Belt Speed:
600 ft/minute (3 m/s)

Maximum Inclination:
25 degrees

Material:
Powder coated mild steel

Accuracy System:
0.5 %

Load Cell:
RL20001 alloy steel, S-beam
(capacity selected from application)

Warranty:
One-year limited

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Master™ 14X Belt Scale Weigh Frame

Medium to Heavy Capacity Weigh Frame



Part Number/Price

Part #	Description	Price
Consult	Master 142	Consult
Consult	Master 143	Consult
Consult	Master 144	Consult
Consult	Lifting weight kit	Consult

Please complete the Belt Scale Questionnaire on page 159 to obtain a quote

Standard Features

- Custom built for each application
- Fits standard conveyors
- Multiple idler design
- Inner frame has free-floating platform

Options

- 304 stainless steel
- Two, three or four weigh idlers
- Customer lifting weights available upon request

Applications

- Medium to heavy capacity, mining and aggregate

Specifications

Conveyor Width:
20 to 120 in (500 to 3,000 mm)

Capacity:
20,000 tons per hour

Belt Speed:
1,400 ft/minute (7 m/s)

Inclination:
25 degrees

Material:
Powder coated mild steel

Accuracy Guidelines:
0.25%

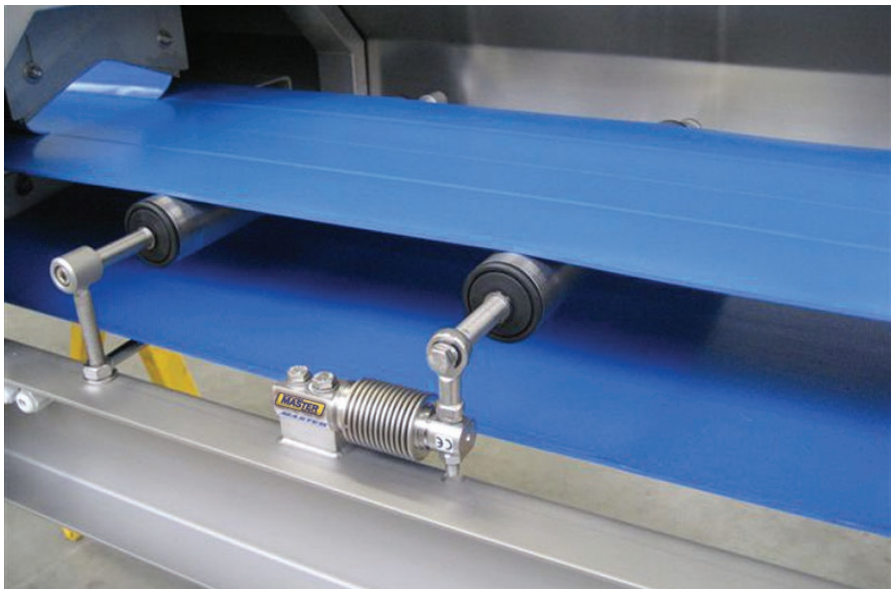
Load Cell:
RL20001 alloy steel S-beam
(capacity selected from application)

Warranty:
One-year limited

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Master™ 421 Belt Scale Weigh Frame

Light Capacity Weigh Frame



Part Number/Price

Part #	Description	Price
Consult	421 weigh frame	Consult

Please complete the Belt Scale Questionnaire on page 159 to obtain a quote

Standard Features

- Ideal for flat belt conveyors
- Roller supported on both sides by load cells
- Open design for easy cleaning

Applications

- Light capacity, food production and light granular materials

Specifications

Conveyor Width:
12 to 60 in (300 to 1,600 mm)

Capacity:
30 tons per hour

Belt Speed:
400 ft/minute (2 m/s)

Inclination:
10 degrees

Material:
Powder coated mild steel, 304/316 stainless steel

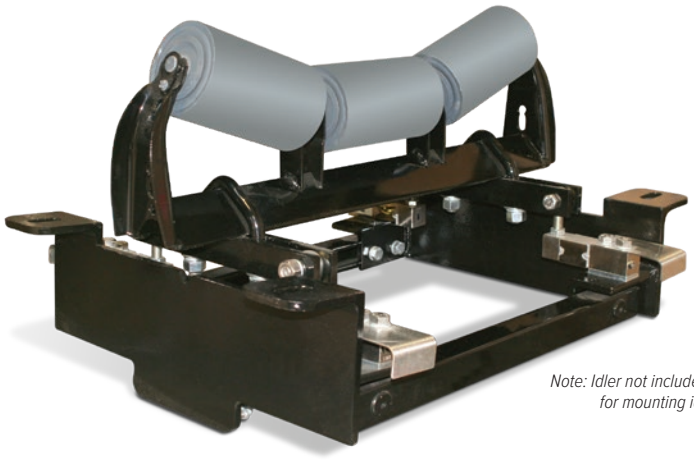
Accuracy Systems:
1.0%

Load Cell:
RL9018SS single-ended beam in 10 kg, 20 kg or 50 kg capacities

Warranty:
One-year limited

BCi Belt Scale Weigh Frame

In-motion Belt Scale System



Note: Idler not included. Customer is responsible for mounting idler to weigh frame.

Part Number/Price

Part #	Description	Est. Belt Width	Capacity	Price
Mild Steel Weigh Frames				
94968	24 in weigh frame	18 in	500 lb	$2,800.00
95208	30 in weigh frame	24 in	500 lb	$2,800.00
95209	36 in weigh frame	30 in	500 lb	$2,800.00
95210	42 in weigh frame	36 in	500 lb	$2,800.00
95211	48 in weigh frame	42 in	500 lb	$2,800.00
95212	54 in weigh frame	48 in	500 lb	$2,800.00
96717	60 in weigh frame	54 in	1,000 lb	$2,800.00
96718	66 in weigh frame	60 in	1,000 lb	$2,800.00
96719	72 in weigh frame	66 in	1,000 lb	$2,800.00
Consult	Light-capacity weigh frames			$3,185.00
Stainless Steel Weigh Frames				
110839	24 in weigh frame	18 in	500 lb	$5,300.00
105246	30 in weigh frame	24 in	500 lb	$5,300.00
110841	36 in weigh frame	30 in	500 lb	$5,300.00
110842	42 in weigh frame	36 in	500 lb	$5,300.00
110843	48 in weigh frame	42 in	500 lb	$5,300.00
110844	54 in weigh frame	48 in	500 lb	$5,300.00
110845	60 in weigh frame	54 in	500 lb	$5,300.00
110846	66 in weigh frame	60 in	500 lb	$5,300.00
110847	72 in weigh frame	66 in	500 lb	$5,300.00
Consult	Light-capacity weigh frames			$4,595.00
Weigh Frame Accessories				
126282	V-bolt for 3 in angle iron base idlers set of 2			$95.00
126283	V-bolt for 4 in angle iron base idlers set of 2			$105.00

Please complete the Belt Scale Questionnaire on page 159 to obtain a quote

Standard Features

- Fits standard conveyors using CEMA-C idlers
- No moving parts
- Four shear laterally opposed shear beam load cells
- Fabricated with heavy gauge steel
- Minimal conveyor modifications required for installation

Applications

- Mining, quarries, bulk material blending, process control, utilities, truck/barge/rail loading and retrofit

Specifications

Conveyor Widths:
18 to 72 in

Capacity:
Up to 10,000 tons per hour

Belt Speed:
Up to 600 feet per minute

Accuracy Guidelines:
Guidelines assume clean belt with automatic tensioning system. Accuracy guidelines are typical. System accuracy may vary depending on environmental influences.

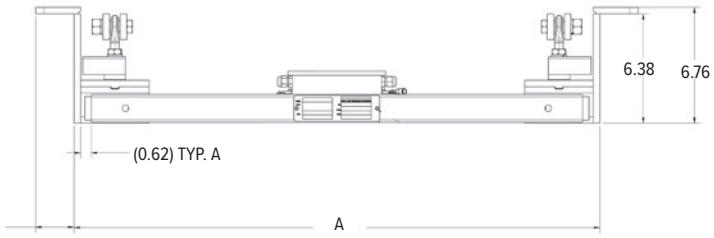
System Accuracy:
Single to two idler system: 0.5% to 1% total error

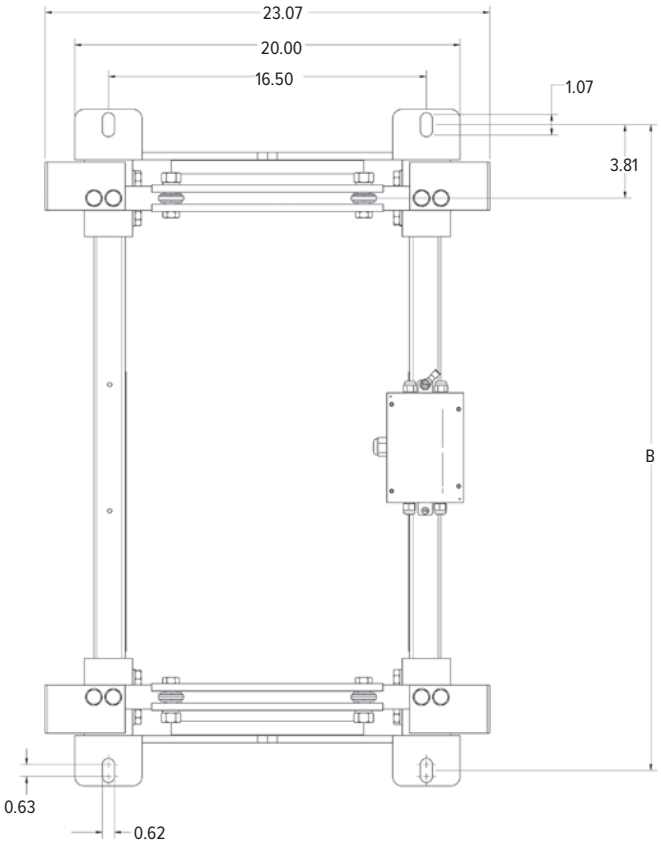
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Dimensions

Part Number	A	B
Mild Steel		
94968	24.00 in	27.50 in
95208	30.00 in	33.50 in
95209	36.00 in	39.50 in
95210	42.00 in	45.50 in
95211	48.00 in	51.50 in
95212	54.00 in	57.50 in
96717	60.00 in	63.50 in
96718	66.00 in	69.50 in
96719	72.00 in	75.50 in

Part Number	A	B
Stainless Steel		
110839	24.00 in	27.50 in
105246	30.00 in	33.50 in
110841	36.00 in	39.50 in
110842	42.00 in	45.50 in
110843	48.00 in	51.50 in
110844	54.00 in	57.50 in
110845	60.00 in	63.50 in
110846	66.00 in	69.50 in
110847	72.00 in	75.50 in





Note: Cables on drawings removed for clarity. Idler mounting hardware is not included in weigh frame; see idler mounting bolts above.

BELT SCALES

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882D Integrator

Belt/Bulk Material Instrumentation



Approvals

Standard Features

- LCD display
- Hardware slot for two option cards
- Operator access to audit trail, preset tare, accumulator, time and date and setpoints through menu keys
- Password-protected audit trail tracking for configuration and calibration changes
- Setpoints for control and alarms
- Four onboard digital I/O channels
- Filter settings for noise
- Speed inputs

Part Number/Price

Part #	Description	Price
Integrators		
177708	120 VAC	$2,115.00
180847	220 VAC Euro power cord	$2,115.00
184683	9 to 36 VDC	$2,275.00

Options/Accessories

Part #	Description	Price
190527	Digital I/O	$365.00
190528	Single analog	$425.00
190529	Relay interface, not for totalizer pulse count output	$470.00
177850	Panel mount option 880	$255.00
197724	Overlay, clear protective	$85.00
Network Cards		
190530	EtherNet/IP™	$620.00
190531	DeviceNet®	$620.00
190532	PROFINET	$620.00
190534	PROFIBUS®	$620.00
190533	Modbus TCP/IP	$620.00
190535	EtherCAT	$620.00

Please complete the Belt Scale Questionnaire on page 159 to obtain a quote

Specifications

Power
Input voltages: 100 to 240 VAC; 9 to 36 VDC
Input frequency: 50/60 Hz

Power Consumption:
AC: 15 watts; DC: 20 watts

Excitation Voltage:
10 VDC 8 × 350 ohm (16 × 700 ohm) load cells

Analog Signal Input Range:
-45 mV to 45 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum at 7.5 Hz;
1.0 µV/graduation typical at 120 Hz

Sample Rate:
7.5 to 120 Hz, software selectable

Resolution:
Internal: 8,000,000 counts 23-bit
Display: 100,000

System Linearity:
± 0.01% full scale

Digital I/O:
Four I/O onboard primary keys, pseudo functions, batching functions

Communication Ports:
RS-232 full duplex or RS-485 half duplex; USB 2.0 Micro B connector; Ethernet TCP/IP

Pulse Input:
Dual inputs for redundancy

Display:
LCD display, 0.8 in, seven-digit, seven-segment weight display, 3 × 20 pixelated prompt area

Annunciators:
Load, total, rate, speed, zero

Keys/Buttons:
Flat membrane panel, tactile feel

Temperature:
Industrial: 14 °F to 122 °F (-10 °C to 50 °C)

Dimensions:
(L x W x H)
9.93 × 4.00 × 8.94 in

Weight:
12 lb (5.4 kg)

Rating/Material:
IP66
Stainless steel

Warranty:
Two-year limited

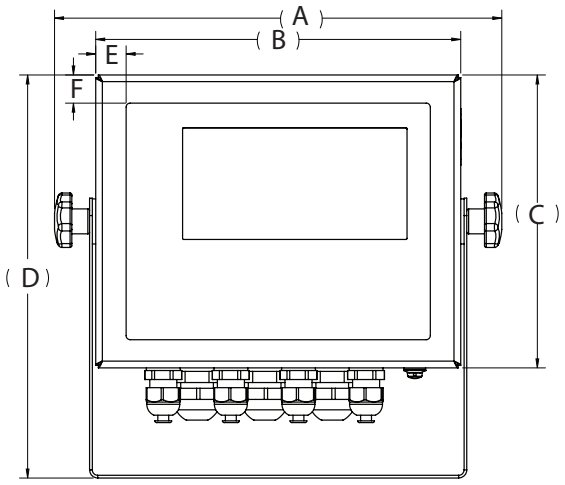
EMC Immunity:
18 KV, 10 V/m

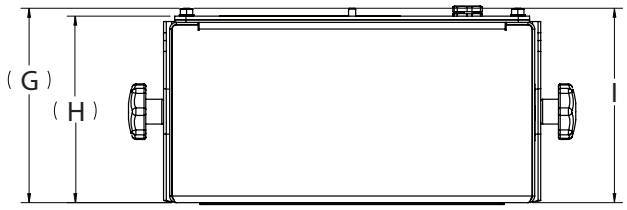
Approvals:
cULus Listed
CE Approved
UKCA

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Dimensions

882D Belt Scale Integrator			
A	9.93 in (252 mm)	F	0.63 in (16 mm)
B	8.10 in (206 mm)	G	4.31 in (110 mm)
C	6.50 in (165 mm)	H	4.14 in (105 mm)
D	8.94 in (227 mm)	I	4.32 in (110 mm)
E	0.68 in (17 mm)		





BELT SCALES

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1280 with SCT-4XD Integrator

Belt/Bulk Material Instrumentation

NEW





Standard Features

- 1280 terminal with web server and system configuration menus
- Manage up to four load cells (one scale)
- Dual encoders and outputs for automatic test weight application
- Micro-USB communication port for configuration, diagnostics and data backup (RL Tools Software)
- All data and adjustments of each scale are available through integrated fieldbus (not available on AN models)
- Removable terminal blocks to simplify wiring in the electrical panel
- Power supply circuit with protections, specific for industrial environment

Options

- Fieldbus: EtherNet/IP™, PROFINET IO, Modbus TCP/IP
- Analog output

Part Number/Price

Part #	Description	Price
228768	Indicator, 1280 belt with SCT-4XDAN digitizer	$5,595.00
229090	Indicator, 1280 belt with wall mount enclosure, AC power supply US	$5,645.00
228928	Indicator, 1280 belt with wall mount enclosure, AC power supply EU	$5,645.00

Options/Accessories

Part #	Description	Price
228869	1280 terminal, 7-inch touch screen and tactile keypad, universal enclosure with tilt stand	$3,300.00
Consult	1280 terminal, 7-inch touch screen (only) for panel/surface mount	Consult
88792	Power supply, IDEC 12 VDC DIN rail mount, 1.3 Amp, input: 85 to 264 VAC, 100 to 370 VDC 15W	$140.00
119244	Power supply, 24VDC 1.3 A DIN mount input 90 to 264 VAC, 120 to 370 VDC, UL E135494	$160.00

Specifications

Power:
100 to 240 VAC; 50/60 Hz
11 to 30 VDC

Power Consumption:
60 W

Excitation Voltage:
10 VDC (±5 VDC)
16 × 350 ohm or 32 × 700 ohm load cells per A/D card

Analog Signal Input Range:
-60 mV to 60 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum at 7.5 Hz to 120 Hz
1.0 µV/graduation recommended

A/D Sample Rate:
7.5 to 960 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 1,000,000

System Linearity
± 0.01% full scale

Digital I/O:
Eight I/O channels on CPU board
Optional 24-channel I/O expansion boards

Communication Ports:
Port 1 and 2: Full duplex RS-232 with CTS/RTS, RS-422/485
Baud rate: 1200 to 115200
Port 3: USB 2.0 Device (Micro)
USB host: (2) Type A connectors max 500 mA
Ethernet: Wired 10/100 Auto-MDX
Ethernet: Wireless 802.11 b/g/n 2.4GHz

Onboard:
Selectable filters: Three stage, Adaptive or Damping
Embedded Linux® OS
8 GB eMMC (system use)
1 GB DDR3 RAM
460 MB onboard database (SQLite) storage
Up to 32 GB micro -SD card (sold separately)

Display:
Seven-inch, 800 × 480 pixel, 500 or 1,000 NIT

Keys/Buttons:
22-key membrane panel, tactile buttons, on-screen keyboard for text and numeric entry, USB port for flash drive, keyboard and printer

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -4 °F to 131 °F (-20 °C to 55 °C)

Rating/Material:
Universal: IP69K

EMC Immunity:
10 V/m

Weight:
Universal enclosure: 11 lb (4.9 kg)

Warranty:
Two-year limited

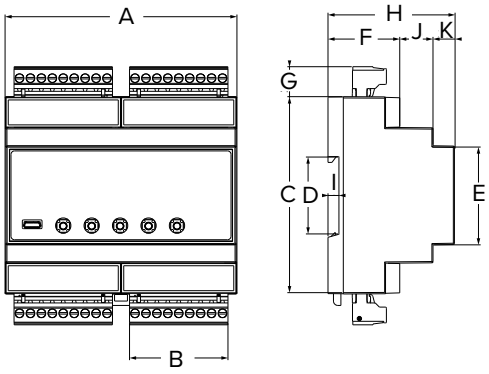


Optional enclosure

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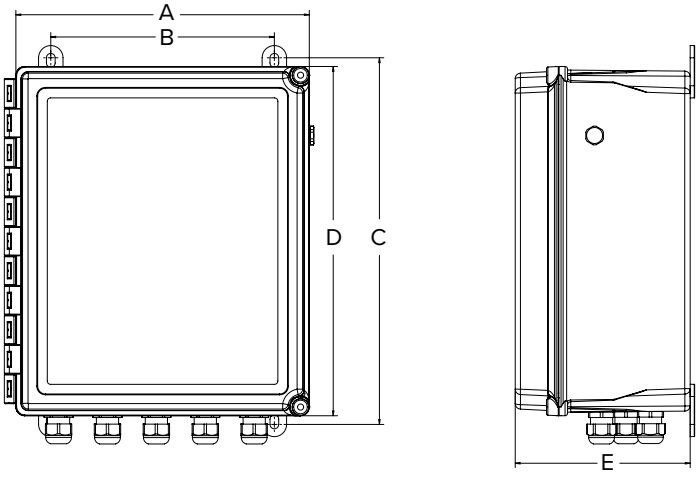
Dimensions

SCT-4XD			
A	4.17 in(106 mm)	G	0.54 in (13.7 mm)
B	1.77 in (45 mm)	H	2.28 in (58 mm)
C	3.54 in (90 mm)	I	0.20 in (5 mm)
D	1.38 in (35 mm)	J	0.59 in (15 mm)
E	1.77 in (45 mm)	K	0.39 in (10 mm)
F	1.30 in (33 mm)		



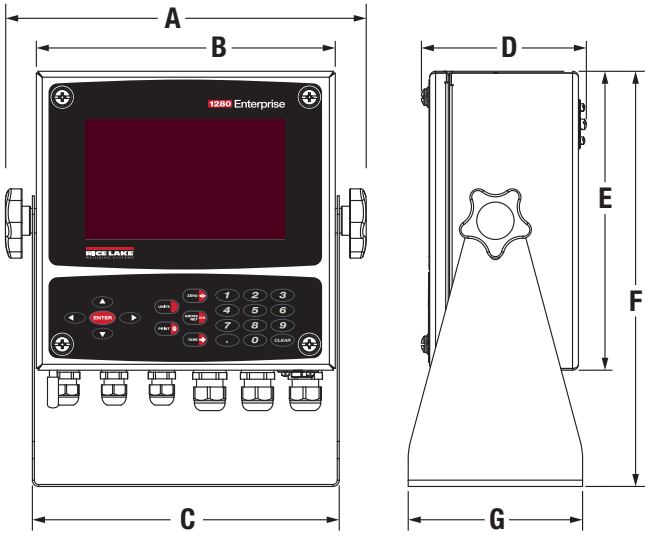
Dimensions

SCT-4XD Enclosure			
A	10.50 in (267 mm)	C	13.12 in (333 mm)
B	8.00 in (203 mm)	D	12.50 in (318 mm)
E	6.26 in (159 mm)		



Dimensions

Universal 1280			
A	10.86 in (276 mm)	E	9.00 in (229 mm)
B	9.00 in (229 mm)	F	12.50 in (318 mm)
C	9.24 in (235 mm)	G	5.25 in (133 mm)
D	4.97 in (126 mm)		

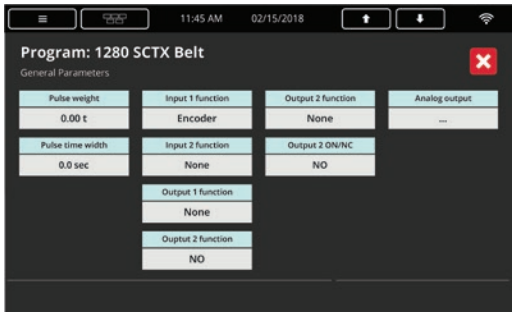




Run Screen



Setup Screen



Setup Screen No Grouping

BELT SCALES

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SCT-4XD Integrator

Belt/Bulk Material Instrumentation

NEW



Optional enclosure



Standard Features

- Manage up to four load cells (one scale)
- Dual encoders and outputs for automatic test weight application
- Micro-USB communication port for configuration, diagnostics and data backup (RL Tools Software)
- All data and adjustments of each scale are available through integrated fieldbus (not available on AN models)
- Removable terminal blocks to simplify wiring in the electrical panel
- Power supply circuit with protections, specific for industrial environment

Options

- 1280 terminal with web server and system configuration menus
- Fieldbus: EtherNet/IP™, PROFINET IO, Modbus TCP/IP
- Analog output

Part Number/Price

Part #	Description	Price
Integrator Only		
225171	Digitizer only, 4 channel weight transmitter with Belt Scale Integrator firmware - no power supply or enclosure	$1,300.00
225172	Modbus TCP/IP, 4 channel weight transmitter with Belt Scale Integrator firmware	$1,580.00
225173	PROFINET, 4 channel weight transmitter with Belt Scale Integrator firmware	$1,580.00
225174	EtherNet/IP, 4 channel weight transmitter with Belt Scale Integrator firmware	$1,580.00
Integrator with Enclosure		
226132	Analog output, 24 VDC power supply, terminal blocks	$2,295.00
226133	Modbus TCP/IP, 24 VDC power supply, terminal blocks	$2,575.00
226134	PROFINET, 24 VDC power supply, terminal blocks	$2,575.00
226135	EtherNet/IP, 24 VDC power supply, terminal blocks	$2,575.00

Options/Accessories

Part #	Description	Price
228869	1280 terminal, 7-inch touch screen and tactile keypad, universal enclosure with tilt stand	$3,300.00
Consult	1280 terminal, 7-inch touch screen (only) for panel/surface mount	Consult
88792	Power supply, IDEC 12 VDC DIN rail mount, 1.3 Amp, input: 85 to 264 VAC, 100 to 370 VDC 15W	$140.00
119244	Power supply, 24VDC 1.3 A DIN mount input 90 to 264 VAC, 120 to 370 VDC, UL E135494	$160.00

Specifications

Power:
12 to 24 VDC

Power Consumption:
5 W

Excitation Voltage:
5 VDC, 120 mA (up to 16 × 350 ohm cells)

Analog Signal Input Range:
±39 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum

Sample Rate:
Single-channel up to 2,600 Hz, software selectable
4 channels up to 100 Hz, software selectable

Analog Output (if equipped):
Opt. isolated, 16-bit
0 to 20 mA, 4 to 20 mA (maximum 350 ohm)
0 to 5 VDC, 0 to 10 VDC (minimum 10,000 ohm)

Digital I/O:
Two inputs: 12/24 VDC
Two outputs: 150 mA 48 VAC/150 mA 60 VDC

Communication Ports:
(1) RS-485 half duplex, (1) RS-232 full duplex
1 USB Micro B connector (device)
for PC configuration

Pulse Input:
Dual inputs for redundancy

Display:
Six-digit 0.31 in (8 mm), red LED

Keys/Buttons:
Flat membrane panel, tactile feel

Dimensions:
(L × W × H)
Overall: 10.5 × 6.26 × 12.5 in
(266 × 159 × 318 mm)

Mounting Tabs:
8.0 × 13.12 in
(203 × 333 mm)

Weight:
27 lb

Rating/Material:
NEMA 4X (if using supplied enclosure)

Warranty:
One-year limited

Approvals:
CE-M EN 45501



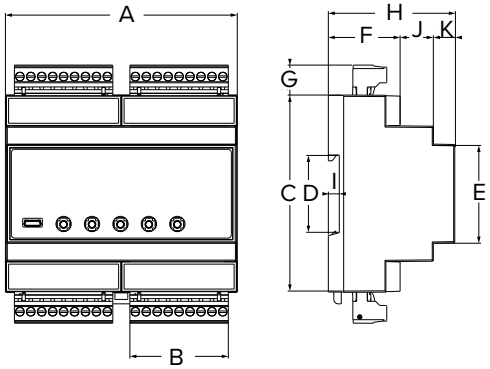
Optional HMI terminal with web server

BELT SCALES

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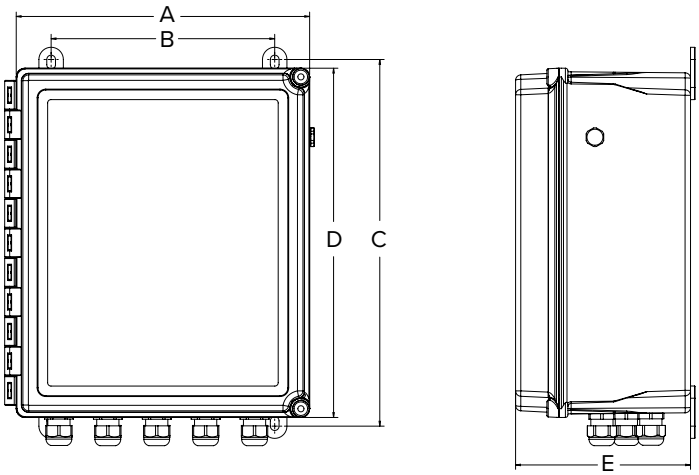
Dimensions

SCT-4XD			
A	4.17 in(106 mm)	G	0.54 in (13.7 mm)
B	1.77 in (45 mm)	H	2.28 in (58 mm)
C	3.54 in (90 mm)	I	0.20 in (5 mm)
D	1.38 in (35 mm)	J	0.59 in (15 mm)
E	1.77 in (45 mm)	K	0.39 in (10 mm)
F	1.30 in (33 mm)		



Dimensions

SCT-4XD Enclosure			
A	10.50 in (267 mm)	C	13.12 in (333 mm)
B	8.00 in (203 mm)	D	12.50 in (318 mm)
E	6.26 in (159 mm)		



BELT SCALES

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Speed Sensor



High-resolution Speed Sensor



Magnetic Coupler



Speed Wheel



Speed Sensors 125334 and 163319

Standard Features

- The speed sensor monitors belt speed. It is directly coupled to a rotating shaft which drives a signal generator. The speed sensor submits an output signal at a frequency directly proportional to the shaft speed. It is typically installed on a non-driven pulley of a belt conveyor for detecting belt speed.

Part Number/Price

Part #	Description	Price
Speed Sensing		
152626	500 PPR high-resolution encoder kit, requires 152247 if magnetic coupling is required	$1,600.00
152247	Magnetic coupler, use with 152626	$500.00
125334	Speed sensor, belt scale 50 PPR (generator type)	$1,260.00
163319	Speed sensor, belt scale 600 PPR (encoder type)	$1,450.00
94969	Speed wheel assembly, 10 PPR NPN Configuration	$1,000.00
Static Weights		
99708	15 lb weight	$215.00
99709	30 lb weight	$275.00
99696	3 in static weight mounting bracket (set of two)	$535.00
99922	4 in static weight mounting bracket (set of two)	$600.00
Speed Sensor Replacement Parts		
94979	Sensor proximity, for 94969	$115.00
98320	Shoulder bolt, for 94969	$15.00
95216	Bushing, speed wheel for 94969	$12.75
192927	Coupler, replacement for 125334 and 163319	$175.00
Accessories		
97416	Kit, shim 50 each 1/16 in, 1/8 in and 1/4 in thick	$95.00
21161	Junction box, splice single cell	$85.00
98501	Cable, load cell custom, 20 ft EL146HE	$34.50

Idler hardware not included with weigh frames

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Belt Scale Questionnaire

RICE LAKE WEIGHING SYSTEMS

Customer Number:

Company: Name:

Date: Phone: Fax: Email:

Application Notes

☐ Inventory ☐ Load out

☐ Control ☐ Blending

Material

Material being measured:

Bulk Density:

☐ (kg/lb) ☐ (lb/cu. ft)

Corrosive state of material *(choose one)*:

☐ High ☐ Moderate ☐ Not Corrosive

Feed Rate *t/hr*: min.

max.

Accuracy Required: +/- %

Constant Feed Rate: ☐ Yes ☐ No

Conveyor

Profile:

☐ Horizontal ☐ Incline/decline deg ☐ Variable Incline deg ☐ Curved

Automatic Tensioning Apparatus: ☐ Yes ☐ No

Access Side *(looking in direction of belt travel)*: ☐ Left ☐ Right ☐ Both

Area Classification: Zone Class Division

Does the current conveyor have scale grade idlers: ☐ Yes ☐ No

Belt Speed (ft/m per minute): min. max.

Belt Condition:

What type of splice does the belt have:

Belt Length: m/ft

Belt Width: mm/in

Idler Diameter: m/ft

Idler Spacing: mm/in

Belt Cleaning Device: ☐ Yes ☐ No

Tail Pulley Diameter: mm/in

Trough Angle: deg

Conveyor Length: ft/m

Supply sketch where possible. ☐ Sketch attached

Integrator Requirements

Enclosure Type: ☐ Field Mount/Universal ☐ Panel Mount ☐ Wall Mount

Power Available: ☐ 115V ☐ 230V ☐ 9-36VDC

Communication: ☐ RS-232 (Standard) ☐ DeviceNet™ ☐ PROFIBUS® DP ☐ Ethernet/IP®

☐ Analog Output ☐ Ethernet TCP/IP ☐ PROFINET® ☐ Modbus® TCP

Remote Display Rate: ☐ Yes ☐ No

Remote Display Totalizer: ☐ Yes ☐ No

Speed Sensor: ☐ Speed Wheel ☐ Shaft Encoder ☐ Magnet

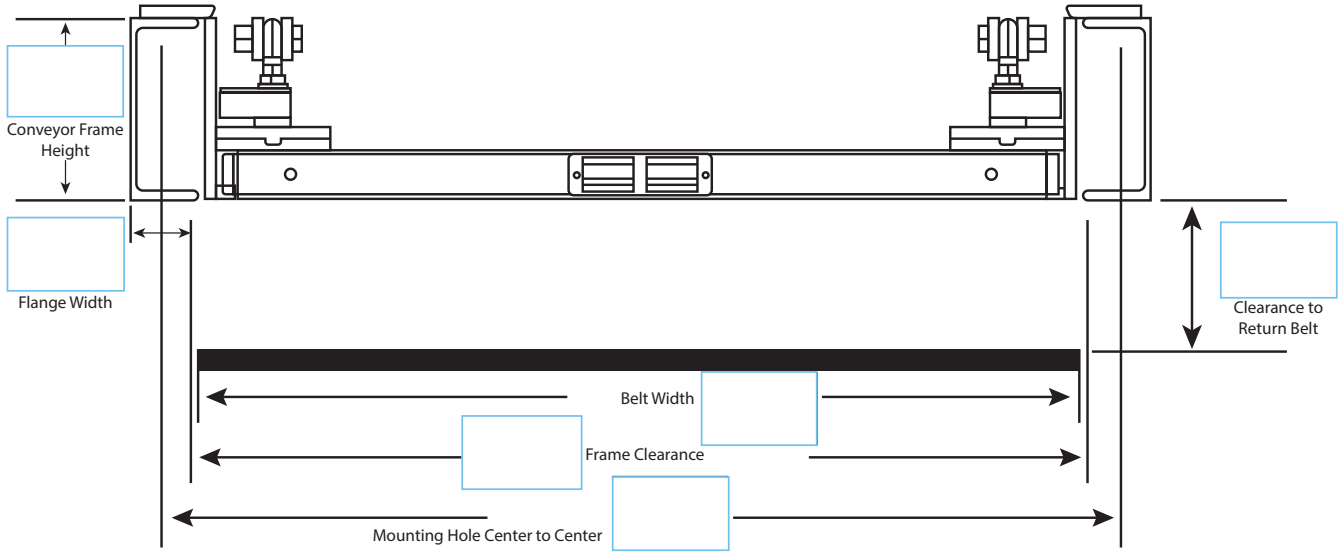
www.ricelake.com | Phone: 800-472-6703

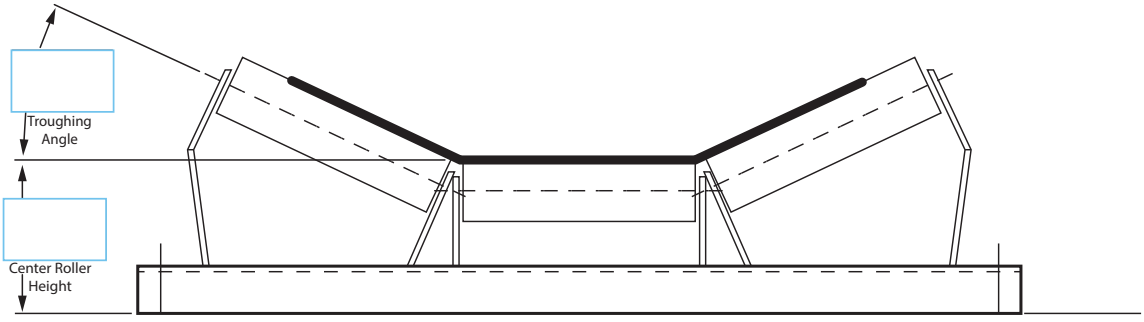
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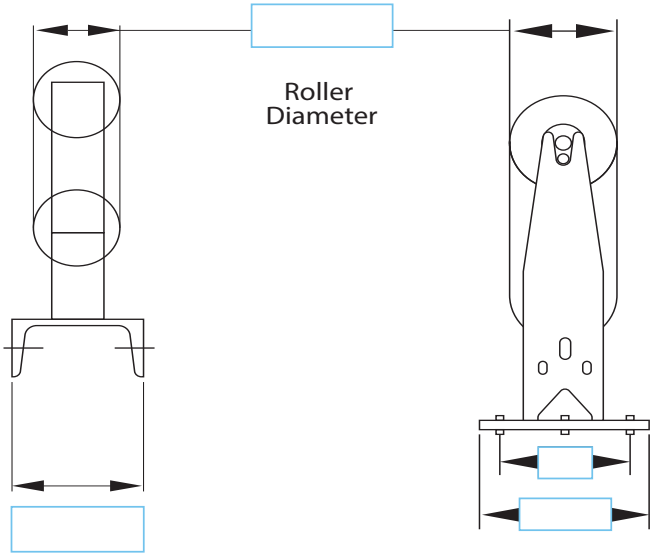
Belt Scale Questionnaire

RICE LAKE WEIGHING SYSTEMS

Application Notes







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Light-capacity Bench Scale

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Light-capacity Bench Scale

CW-90XB 166
Light-capacity Bench Scale

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CW-90B Bench Scale and 380 Indicator Package

Ready-n-Weigh Bench Scale System 168
CW-90B Bench Scale and 680 Indicator Package

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BenchMark® SL

Light-capacity Bench Scale







Standard Features

- NTEP Certified load cell
- 304 stainless steel construction
- LifeGuard™ base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and won't scratch surfaces

Specifications

Load Cell:
IP66, environmentally sealed
Aluminum

Output Impedance:
350 ohm

Maximum Overload:
200%

Overload Protection:
Shock-absorbing spider

Scale Frame:
AISI304L, straight line finish, Ra=45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
10 ft (3 m)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 95-072, Class III 5,000 d
Measurement Canada AM-5082
Load cell is NTEP
Load cell is cFMus approved

Approvals

Measurement Canada Approved

FM APPROVED

Part Number/Price

Part #	Platform Capacity	Dimensions (L × W × H)	Est. Weight	Price
18575*	2 lb (1 kg)	10 × 10 × 3.15 in	13 lb	$745.00
18576	5 lb (2.5 kg)	10 × 10 × 3.15 in	13 lb	$745.00
18577	10 lb (5 kg)	10 × 10 × 3.15 in	13 lb	$745.00
18578	20 lb (10 kg)	10 × 10 × 3.15 in	13 lb	$745.00
18579	30 lb (15 kg)	10 × 10 × 3.15 in	13 lb	$745.00
32914	30 lb (15 kg)	12 × 12 × 3.25 in	14 lb	$840.00
32913	50 lb (25 kg)	12 × 12 × 3.25 in	14 lb	$840.00
35198	100 lb (50 kg)	12 × 12 × 3.25 in	14 lb	$840.00

**Non-NTEP Certified or Measurement Canada approved*

Options/Accessories

Part #	Description	Catalog Page #
Consult	Scale columns	See page 195
Consult	Ball transfer and roller conveyor scale tops	See page 194
Consult	Mobile scale carts	See page 190 to page 193

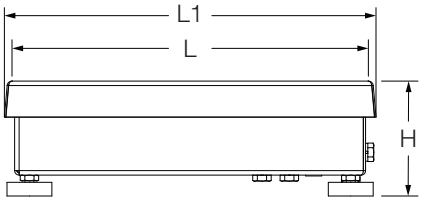
Dimensions

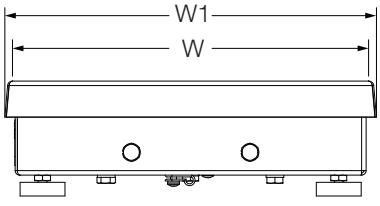
BenchMark SL			
10 × 10 in			
H	3.15 in	W	10.00 in
L	10.00 in	W1	10.25 in
L1	10.25 in		

Note: 1 in = 25.4 mm

12 × 12 in			
H	3.25 in	W	12.00 in
L	12.00 in	W1	12.25 in
L1	12.25 in		

Note: 1 in = 25.4 mm

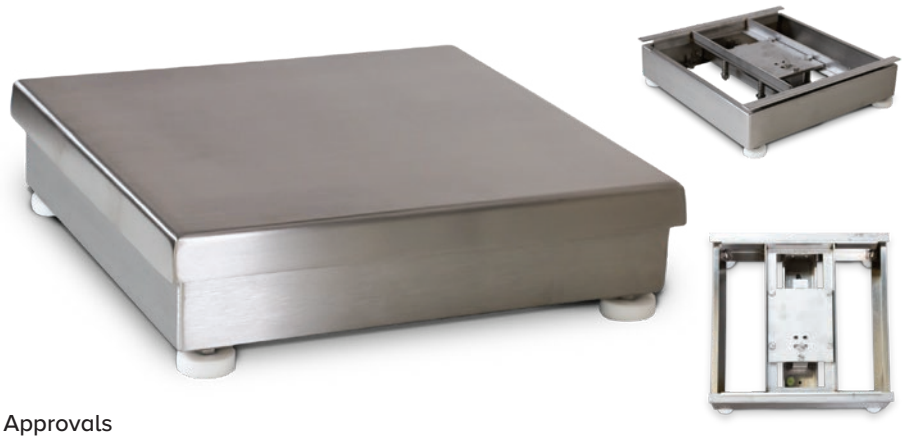




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BenchMark® CW-80B

Light-capacity Bench Scale



Standard Features

- NTEP Certified load cell
- 304 stainless steel construction
- LifeGuard™ base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and won't scratch surfaces

Specifications

Load Cell:
IP67 environmentally sealed stainless steel

Output Impedance:
350 ohm

Maximum Overload:
200%

Overload Protection:
Shock-absorbing spider

Scale Frame:
AISI304L, straight line finish, Ra=45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
10 ft (3 m)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 96-107, Class III, 3000 d
Measurement Canada AM-5156
Load cell is NTEP
Load cell is FM approved

Approvals

Measurement Canada Approved

FM APPROVED

Part Number/Price

Part #	Platform Capacity	Dimensions (L × W × H)	Est. Weight	Price
35075	6 lb (3 kg)	10 × 10 × 3.15 in	13 lb	$910.00
35076	10 lb (5 kg)	10 × 10 × 3.15 in	13 lb	$910.00
35077	15 lb (7 kg)	10 × 10 × 3.15 in	13 lb	$910.00
35078	30 lb (15 kg)	10 × 10 × 3.15 in	13 lb	$910.00
35079	30 lb (15 kg)	12 × 12 × 3.25 in	14 lb	$1,005.00
35080	60 lb (30 kg)	12 × 12 × 3.25 in	14 lb	$1,005.00

Options/Accessories

Part #	Description	Catalog Page #
Consult	Scale columns	See page 195
Consult	Ball transfer and roller conveyor scale tops	See page 194
Consult	Mobile scale carts	See page 190 to page 193

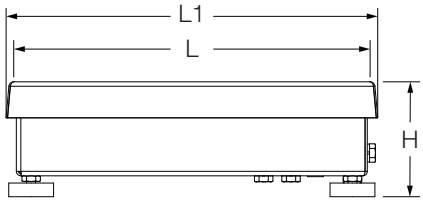
Dimensions

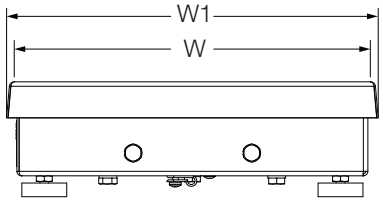
CW-80B			
10 × 10 in			
H	3.15 in	W	10.00 in
L	10.00 in	W1	10.25 in
L1	10.25 in		

Note: 1 in = 25.4 mm

12 × 12 in			
H	3.25 in	W	12.00 in
L	12.00 in	W1	12.25 in
L1	12.25 in		

Note: 1 in = 25.4 mm





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BenchMark® SL/HE

Spring Loaded/Hostile Environment Bench Scale







Approvals

Measurement Canada Approved

FM APPROVED

Part Number/Price

Part #	Platform Capacity	Dimensions (L × W × H)	Est. Weight	Price
86942	5 lb (2.5 kg)	10 × 10 × 3.15 in	13 lb	$1,355.00
86943	10 lb (5 kg)	10 × 10 × 3.15 in	13 lb	$1,355.00
86944	20 lb (10 kg)	10 × 10 × 3.15 in	13 lb	$1,355.00
86945	30 lb (15 kg)	10 × 10 × 3.15 in	13 lb	$1,355.00
86946	30 lb (15 kg)	12 × 12 × 3.25 in	13 lb	$1,450.00
86947	50 lb (25 kg)	12 × 12 × 3.25 in	14 lb	$1,450.00
86948	100 lb (50 kg)	12 × 12 × 3.25 in	14 lb	$1,450.00

Options/Accessories

Part #	Description	Catalog Page #
Consult	Scale columns	See page 195
Consult	Ball transfer and roller conveyor scale tops	See page 194
Consult	Mobile scale carts	See page 190 to page 193

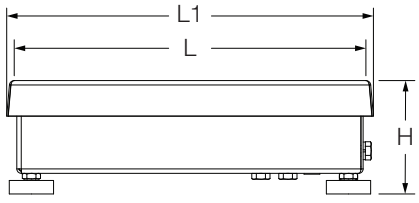
Dimensions

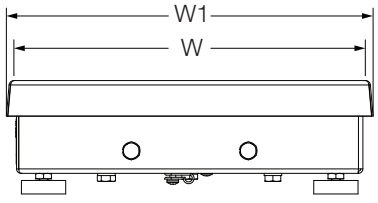
BenchMark SL/HE			
10 × 10 in			
H	3.15 in	W	10.00 in
L	10.00 in	W1	10.25 in
L1	10.25 in		

Note: 1 in = 25.4 mm

12 × 12 in			
H	3.25 in	W	12.00 in
L	12.00 in	W1	12.25 in
L1	12.25 in		

Note: 1 in = 25.4 mm





Standard Features

- NTEP Certified load cell
- 304 stainless steel construction
- LifeGuard™ base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and won't scratch surfaces

Specifications

Load Cell:
IP69K, hermetically sealed
Stainless steel

Output Impedance:
350 ohm

Maximum Overload:
200%, except 150% for 30 lb

Overload Protection:
Shock-absorbing spider

Scale Frame:
AISI304L, straight line finish, Ra=45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
10 ft (3 m)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

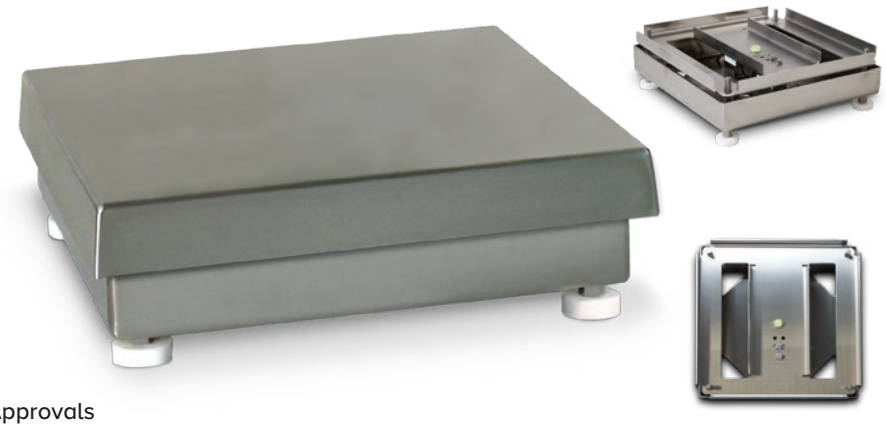
Warranty:
Three-year limited
(includes water ingress)

Approvals:
NTEP 95-072, Class III 5,000 d
Measurement Canada AM-5082
Load cell is NTEP
Load cell is FM approved

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CW-90B

Light-capacity Bench Scale



Standard Features

- NTEP Certified load cell
- 304 stainless steel construction
- Meets HACCP requirements
- Five-point overload protection
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

Specifications

Load Cell:
IP67, environmentally sealed
Aluminum

Output Impedance:
350 ohm

Maximum Overload:
180% to 200% depending on capacity

Overload Protection:
Five-point, independently adjusted

Scale Frame:
AISI304L, straight line finish, Ra=45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
34 in (86 cm) or 10 ft (3 m)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 95-072, Class III 5,000 d
Measurement Canada AM-5082
NSF
Load cell is NTEP
Load cell is cFMus Approved

Approvals

Measurement Canada Approved

Part Number/Price

Part #		Platform Capacity	Dimensions (L × W × H)	Est. Weight	Price
10 ft cable	34 in cable				
112599	**106137**	5 lb (2.5 kg)	10 × 10 × 4.25 in	14 lb	$695.00
112601	**106138**	10 lb (5 kg)	10 × 10 × 4.25 in	14 lb	$695.00
112603	**106139**	25 lb (10 kg)	10 × 10 × 4.25 in	14 lb	$695.00
112605	**106140**	25 lb (10 kg)	12 × 12 × 4.25 in	17 lb	$790.00
112607	**106141**	50 lb (25 kg)	12 × 12 × 4.25 in	17 lb	$790.00
112609	**106142**	100 lb (50 kg)	12 × 12 × 4.25 in	17 lb	$790.00

Options/Accessories

Part #	Description	Catalog Page #
Consult	Scale columns	See page 195
Consult	Ball transfer and roller conveyor scale tops	See page 194
Consult	Mobile scale carts	See page 190 to page 193

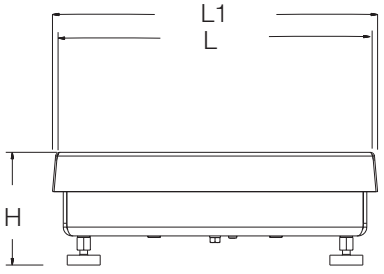
Dimensions

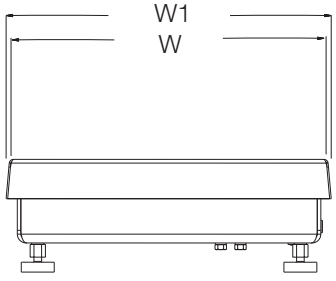
CW-90B			
10 × 10 in			
H	4.25 in	W	10.00 in
L	10.00 in	W1	10.25 in
L1	10.25 in		

Note: 1 in = 25.4 mm

12 × 12 in			
H	4.25 in	W	12.00 in
L	12.00 in	W1	12.25 in
L1	12.25 in		

Note: 1 in = 25.4 mm

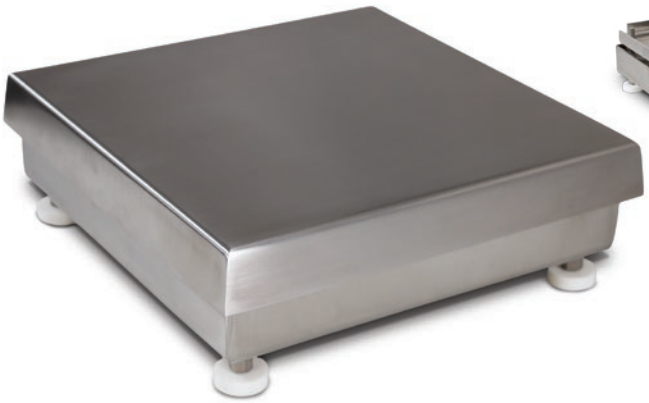




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CW-90XB

Light-capacity Bench Scale







Standard Features

- NTEP Certified load cell
- 304 stainless steel construction
- Meets HACCP requirements
- Five-point overload protection
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

Specifications

Load Cell:
IP69K, hermetically sealed
Stainless steel

Output Impedance:
350 ohm

Maximum Overload:
180% to 200% depending on capacity

Overload Protection:
Five-point, independently adjusted

Scale Frame:
AISI304L, straight line finish, Ra=45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
34 in (86 cm) or 10 ft (3 m)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Three-year limited
(includes water ingress)

Approvals:
NTEP 95-072, Class III 5,000 d
Measurement Canada AM-5082
NSF
Load cell is NTEP
Load cell is FM Approved

Approvals

Measurement Canada Approved

Part Number/Price

Part #		Platform Capacity	Dimensions (L × W × H)	Est. Weight	Price
10 ft Cable	34 in Cable				
112600	**106143**	5 lb (2.5 kg)	10 × 10 × 4.25 in	14 lb	$1,285.00
112602	**106144**	10 lb (5 kg)	10 × 10 × 4.25 in	14 lb	$1,285.00
112604	**106145**	25 lb (10 kg)	10 × 10 × 4.25 in	14 lb	$1,285.00
112606	**106146**	25 lb (10 kg)	12 × 12 × 4.25 in	17 lb	$1,380.00
112608	**106147**	50 lb (25 kg)	12 × 12 × 4.25 in	17 lb	$1,380.00
112610	**106148**	100 lb (50 kg)	12 × 12 × 4.25 in	17 lb	$1,380.00

Options/Accessories

Part #	Description	Catalog Page #
Consult	Scale columns	See page 195
Consult	Ball transfer and roller conveyor scale tops	See page 194
Consult	Mobile scale carts	See page 190 to page 193

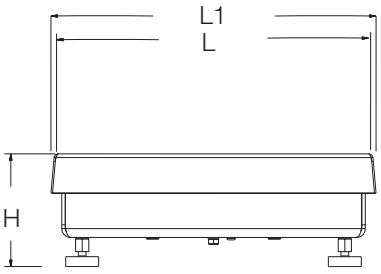
Dimensions

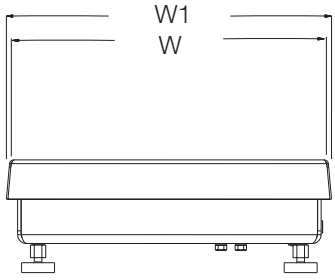
CW-90XB			
10 × 10 in			
H	4.25 in	W	10.00 in
L	10.00 in	W1	10.25 in
L1	10.25 in		

Note: 1 in = 25.4 mm

12 × 12 in			
H	4.25 in	W	12.00 in
L	12.00 in	W1	12.25 in
L1	12.25 in		

Note: 1 in = 25.4 mm





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Ready-n-Weigh Bench Scale System

CW-90B Bench Scale and 380 Indicator Package



Approvals

Measurement Canada Approved

CW-90B with 380 Package

Part #	Capacity	Dimensions (L × W × H)	Est. Weight	Price
208528	5 lb (2.5 kg)	10 × 10 × 4.25 in	24 lb	$1,545.00
208529	10 lb (5 kg)	10 × 10 × 4.25 in	24 lb	$1,545.00
208530	25 lb (10 kg)	10 × 10 × 4.25 in	24 lb	$1,545.00
208531	25 lb (10 kg)	12 × 12 × 4.25 in	27 lb	$1,640.00
208532	50 lb (25 kg)	12 × 12 × 4.25 in	27 lb	$1,640.00
208533	100 lb (50 kg)	12 × 12 × 4.25 in	27 lb	$1,640.00

Options/Accessories

Part #	Description	Price
206433†	External AC adapter	$60.00
204258	Real-time clock module	$127.00

† *US plug (NA) - Type A*

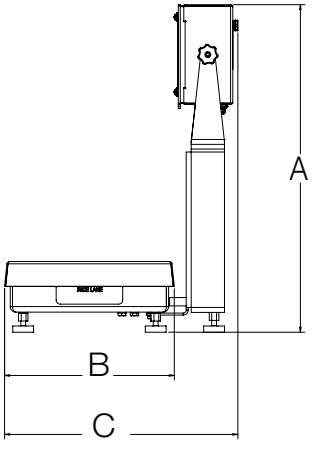
Dimensions

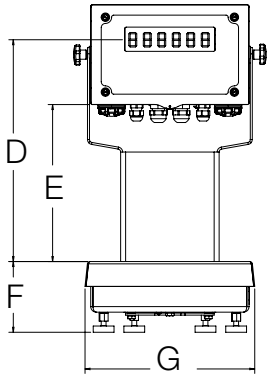
CW-90B Bench Scale and 380 Indicator			
10 × 10 in			
A	19.56 in	E	9.43 in
B	10.20 in	F	4.25 in
C	14.02 in	G	10.20 in
D	13.36 in		

Note: 1 in = 25.4 mm

12 × 12 in			
A	19.56 in	E	9.30 in
B	12.38 in	F	4.25 in
C	16.10 in	G	12.35 in
D	13.23 in		

Note: 1 in = 25.4 mm





Standard Features

- Package includes scale, NTEP Certified load cell, indicator and 12-inch column
- Factory calibrated with indicator setup and configured for 5,000 divisions
- Scale includes rubber feet to provide exceptional traction and avoid scratching surfaces along with removable top cover for ease of cleaning
- Optional battery backed time and date
- Standard RS-232 serial port for connecting to a variety of peripherals
- Powered by four alkaline C-cell batteries (not included) or external AC adapter (not included)

CW-90B Specifications

Load Cell:
IP67, environmentally sealed aluminum

Scale Construction:
304 stainless steel

Maximum Overload:
180% to 200% depending on capacity

Overload Protection:
Five-point, independently adjusted

Scale Frame:
AISI304L, straight line finish, Ra=45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
34 in (86 cm)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 21-051, Class III 5,000 d
Measurement Canada AM-6184
NSF
Load cell is NTEP
Load cell is cFMus Approved

380 Specifications

Power:
Batteries: Four alkaline C-cell (not included)
Optional: 115/230 VAC to 12 VAC adapter

Battery Life:
100 hours on alkaline batteries with one 350 ohm load cell, no backlight

Communication Ports:
One full-duplex RS-232 (three-wire)
One USB 2.0

Display:
Six 1 in (25 mm) tall, LCD digits

Annunciators:
g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Keys/Buttons:
Five tactile buttons

Rating/Material:
IP66, 304 stainless steel

Warranty:
Two-year limited

Approvals:
NTEP 21-051
Measurement Canada AM-6184
CE Marked
cULus Listed

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Ready-n-Weigh Bench Scale System

CW-90B Bench Scale and 680 Indicator Package



Approvals

Measurement Canada Approved

CW-90B with 680 Package

Part #	Platform Capacity	Dimensions (L × W × H)	Est. Weight	Price
115-230 VAC, LED, Numeric, US Plug-Type B				
201308	5 lb (2.5 kg)	10 × 10 × 4.25 in	24 lb	$1,865.00
201309	10 lb (5 kg)	10 × 10 × 4.25 in	24 lb	$1,865.00
201310	25 lb (10 kg)	10 × 10 × 4.25 in	24 lb	$1,865.00
201311	25 lb (10 kg)	12 × 12 × 4.25 in	27 lb	$1,960.00
201312	50 lb (25 kg)	12 × 12 × 4.25 in	27 lb	$1,960.00
201313	100 lb (50 kg)	12 × 12 × 4.25 in	27 lb	$1,960.00
115-230 VAC, LED, Numeric, Euro Plug-Type E				
201314	5 lb (2.5 kg)	10 × 10 × 4.25 in	24 lb	$1,865.00
201315	10 lb (5 kg)	10 × 10 × 4.25 in	24 lb	$1,865.00
201319	25 lb (10 kg)	10 × 10 × 4.25 in	24 lb	$1,865.00
201320	25 lb (10 kg)	12 × 12 × 4.25 in	27 lb	$1,960.00
201321	50 lb (25 kg)	12 × 12 × 4.25 in	27 lb	$1,960.00
201322	100 lb (50 kg)	12 × 12 × 4.25 in	27 lb	$1,960.00

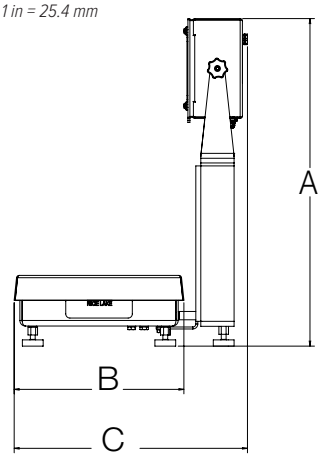
† *US plug (NA) - Type B*

†† *Euro Plug - Type E*

Dimensions

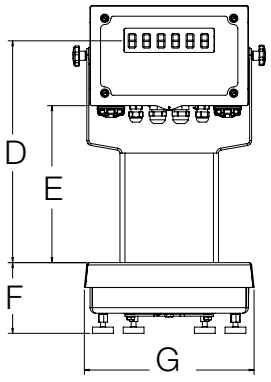
CW-90B Bench Scale and 680 Indicator			
10 × 10 in			
A	19.56 in	E	9.31 in
B	10.25 in	F	4.25 in
C	15.83 in	G	10.25 in
D	13.31 in		

Note: 1 in = 25.4 mm



12 × 12 in			
A	19.56 in	E	9.31 in
B	12.25 in	F	4.25 in
C	16.83 in	G	12.25 in
D	13.31 in		

Note: 1 in = 25.4 mm



Standard Features

- Package includes scale, NTEP Certified load cell, indicator and 12-inch column
- Factory calibrated with indicator setup and configured for 5,000 divisions
- Scale includes rubber feet to provide exceptional traction and avoid scratching surfaces along with removable top cover for ease of cleaning
- Battery backed time and date
- Standard RS-232 serial ports for connecting to a variety of peripheral

CW-90B Specifications

Load Cell:
IP67, environmentally sealed
Aluminum

Scale Construction:
304 stainless steel

Maximum Overload:
180% to 200% depending on capacity

Overload Protection:
Five-point, independently adjusted

Scale Frame:
AISI304L, straight line finish, Ra=45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
34 in (86 cm)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 95-072, Class III 5,000 d
Measurement Canada AM-5082
NSF
Load cell is NTEP
Load cell is cFMus Appproved

680 Specifications

Power:
Line voltage: 100 to 240 VAC
Frequency: 50/60 Hz

Communication Ports:
Two full-duplex RS-232
RS-485/422 (five-wire)
Micro USB (device)
Ethernet TCP/IP (10/100)

Display:
Seven 0.8 in (20 mm) tall, seven-segment digits

Annunciators:
Eight LED annunciators

Keys/Buttons:
Flat membrane panel, tactile feel
(18 buttons plus ON/OFF)

Rating/Material:
IP69K (IP66 with RJ45)
AISI 304 stainless Steel

Warranty:
Two-year limited

Approvals:
NTEP 19-021
Measurement Canada AM-6121C
CE Marked
cULus Listed

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Ready-n-Weigh Bench Scale System

CW-90XB Bench Scale and 380 Indicator Package



Approvals

Measurement Canada Approved

CW-90XB with 380 Package

Part #	Capacity	Dimensions (L × W × H)	Est. Weight	Price
208543	5 lb (2.5 kg)	10 × 10 × 4.25 in	24 lb	$2,135.00
208544	10 lb (5 kg)	10 × 10 × 4.25 in	24 lb	$2,135.00
208545	25 lb (10 kg)	10 × 10 × 4.25 in	24 lb	$2,135.00
208546	25 lb (10 kg)	12 × 12 × 4.25 in	27 lb	$2,230.00
208547	50 lb (25 kg)	12 × 12 × 4.25 in	27 lb	$2,230.00
208548	100 lb (50 kg)	12 × 12 × 4.25 in	27 lb	$2,230.00

Options/Accessories

Part #	Description	Price
206433†	External AC adapter	$60.00
204258	Real-time clock module	$127.00

† *US plug (NA) - Type A*

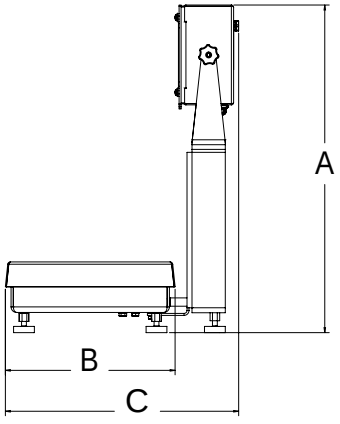
Dimensions

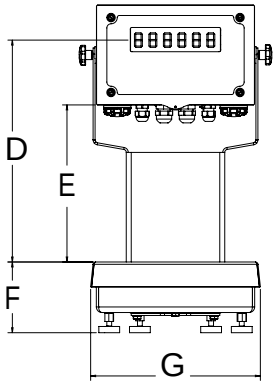
CW-90XB Bench Scale and 380 Indicator			
10 × 10 in			
A	19.56 in	E	9.44 in
B	10.20 in	F	4.25 in
C	14.02 in	G	10.20 in
D	13.36 in		

Note: 1 in = 25.4 mm

12 × 12 in			
A	19.56 in	E	9.31 in
B	12.29 in	F	4.25 in
C	16.07 in	G	12.29 in
D	13.23 in		

Note: 1 in = 25.4 mm





Standard Features

- Package includes scale, NTEP Certified load cell, indicator and 12-inch column
- Factory calibrated with indicator setup and configured for 5,000 divisions
- Scale includes rubber feet to provide exceptional traction and avoid scratching surfaces along with a removable top cover for ease of cleaning
- Optional battery backed time and date
- Standard RS-232 serial port for connecting to a variety of peripherals
- Powered by four alkaline C-cell batteries (not included) or external AC adapter (not included)

CW-90XB Specifications

Load Cell:
IP69K, hermetically sealed
Stainless steel

Scale Construction:
304 stainless steel

Maximum Overload:
180% to 200% depending on capacity

Overload Protection:
Five-point, independently adjusted

Scale Frame:
AISI304L, straight line finish, Ra = 45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra = 45 ± 10

Cable Length:
34 in (86 cm)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Three-year limited
(includes water ingress)

Approvals:
NTEP 95-072, Class III 5,000 d
Measurement Canada AM-5082
Load cell is NTEP
Load cell is FM approved

380 Specifications

Power:
Batteries: Four alkaline C-cell (not included)
Optional: 115/230 VAC to 12 VDC adapter

Battery Life:
100 hours on alkaline batteries with one 350 ohm load cell, no backlight

Communication Ports:
One full-dupleX RS-232 (three-wire)
One USB 2.0

Display:
Six 1 in (25 mm) tall, LCD digits

Status Annunciators:
g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Keys/Buttons:
Five tactile buttons

Rating/Material:
IP66, 304 Stainless steel

Warranty:
Two-year limited

Approvals:
NTEP 21-051
Measurement Canada AM-6184
CE Marked
cULus Listed

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Ready-n-Weigh Bench Scale System

CW-90XB Bench Scale and 680 Indicator Package



Approvals

Measurement Canada Approved

CW-90XB with 680 Package

Part #	Platform Capacity	Dimensions (L × W × H)	Est. Weight	Price
115-230 VAC, LED, Numeric, US Plug-Type B				
201409	5 lb (2.5 kg)	10 × 10 × 4.25 in	24 lb	$2,455.00
201410	10 lb (5 kg)	10 × 10 × 4.25 in	24 lb	$2,455.00
201411	25 lb (10 kg)	10 × 10 × 4.25 in	24 lb	$2,455.00
201412	25 lb (10 kg)	12 × 12 × 4.25 in	27 lb	$2,550.00
201413	50 lb (25 kg)	12 × 12 × 4.25 in	27 lb	$2,550.00
201414	100 lb (50 kg)	12 × 12 × 4.25 in	27 lb	$2,550.00
115-230 VAC, LED, Numeric, Euro Plug-Type E				
201415	5 lb (2.5 kg)	10 × 10 × 4.25 in	24 lb	$2,455.00
201416	10 lb (5 kg)	10 × 10 × 4.25 in	24 lb	$2,455.00
201417	25 lb (10 kg)	10 × 10 × 4.25 in	24 lb	$2,455.00
201418	25 lb (10 kg)	12 × 12 × 4.25 in	27 lb	$2,550.00
201419	50 lb (25 kg)	12 × 12 × 4.25 in	27 lb	$2,550.00
201420	100 lb (50 kg)	12 × 12 × 4.25 in	27 lb	$2,550.00

† US plug (NA) - Type B

†† Euro Plug - Type E

Dimensions

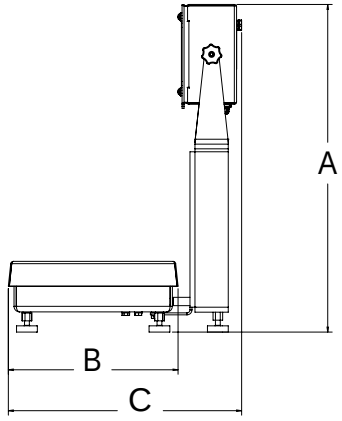
CW-90XB Bench Scale and 680 Indicator

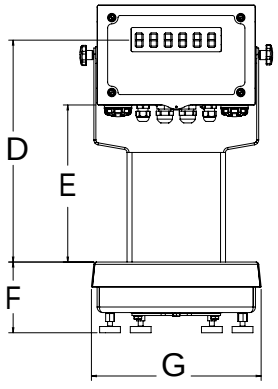
10 × 10 in			
A	19.56 in	E	9.31 in
B	10.25 in	F	4.25 in
C	15.83 in	G	10.25 in
D	13.31 in		

Note: 1 in = 25.4 mm

12 × 12 in			
A	19.56 in	E	9.31 in
B	12.25 in	F	4.25 in
C	16.83 in	G	12.25 in
D	13.31 in		

Note: 1 in = 25.4 mm





Standard Features

- Package includes scale, NTEP Certified load cell, indicator and 12-inch column
- Factory calibrated with indicator setup and configured for 5,000 divisions
- Scale includes rubber feet to provide exceptional traction and avoid scratching surfaces along with removable top cover for ease of cleaning
- Battery backed time and date
- Standard RS-232 serial ports for connecting to a variety of peripherals

CW-90XB Specifications

Load Cell:
IP69K, hermetically sealed
Stainless steel

Scale Construction:
304 stainless steel

Maximum Overload:
180% to 200% depending on capacity

Overload Protection:
Five-point, independently adjusted

Scale Frame:
AISI304L, straight line finish, Ra = 45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra = 45 ± 10

Cable Length:
34 in (86 cm)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Three-year limited
(includes water ingress)

Approvals:
NTEP 95-072, Class III 5,000 d
Measurement Canada AM-5082
Load cell is NTEP
Load cell is FM approved

680 Specifications

Power:
Line voltage: 100 to 240 VAC
Frequency: 50/60 Hz

Communication Ports:
Two full-duplex RS-232
RS-485/422 (five-wire)
Micro USB (device)
Ethernet TCP/IP (10/100)

Display:
Seven 0.8-inch (20 mm) tall, seven-segment digits

Annunciators:
Eight LED annunciators

Keys/Buttons:
Flat membrane panel, tactile feel
(18 buttons plus ON/OFF)

Rating/Material:
IP69K (IP66 with RJ45)
AISI 304 stainless steel

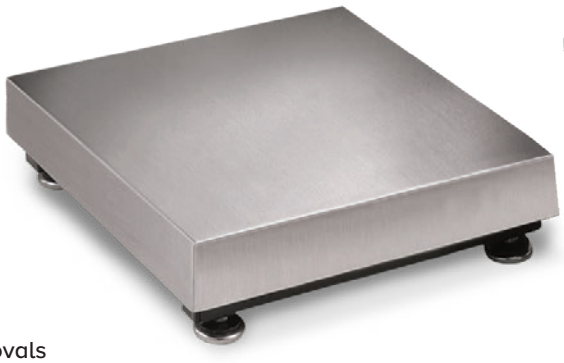
Warranty:
Two-year limited

Approvals:
NTEP 19-021
Measurement Canada AM-6121C
CE Marked
cULus Listed

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BenchMark® MS

Mild Steel Bench Scale







Approvals

Measurement Canada Approved

† Load cell approval

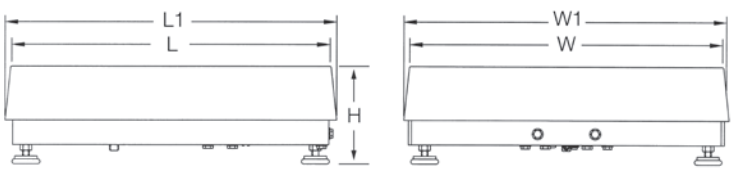
†† Load cell approval

Part Number/Price

Part #	Capacity	Platform Dimensions (L × W × H)	Est. Weight	Price
18580 †	30 lb (15 kg)	12 × 12 × 4.12 in	20 lb	$935.00
18582 †	50 lb (25 kg)	12 × 12 × 4.12 in	20 lb	$935.00
18584 †	100 lb (50 kg)	12 × 12 × 4.12 in	20 lb	$935.00
18586 ††	50 lb (25 kg)	12 × 18 × 4.12 in	37 lb	$1,030.00
18588 ††	100 lb (50 kg)	12 × 18 × 4.12 in	37 lb	$1,030.00
18590 †	50 lb (25 kg)	18 × 18 × 5.25 in	68 lb	$1,270.00
18592 †	100 lb (50 kg)	18 × 18 × 5.25 in	68 lb	$1,270.00
18594 †	150 lb (75 kg)	18 × 18 × 5.25 in	68 lb	$1,270.00
18596 †	200 lb (100 kg)	18 × 18 × 5.25 in	68 lb	$1,270.00
18598 †	250 lb (125 kg)	18 × 18 × 5.25 in	68 lb	$1,270.00
18600 †	300 lb (150 kg)	18 × 18 × 5.25 in	68 lb	$1,270.00
18602 †	500 lb (250 kg)	18 × 18 × 5.25 in	68 lb	$1,270.00
18604 ††	1,000 lb (500 kg)	18 × 18 × 5.25 in	68 lb	$1,270.00
18606 †	50 lb (25 kg)	24 × 18 × 5.25 in	78 lb	$1,400.00
18608 †	100 lb (50 kg)	24 × 18 × 5.25 in	78 lb	$1,400.00
18610 †	150 lb (75 kg)	24 × 18 × 5.25 in	78 lb	$1,400.00
18612 †	200 lb (100 kg)	24 × 18 × 5.25 in	78 lb	$1,400.00
18614 †	250 lb (125 kg	24 × 18 × 5.25 in	78 lb	$1,400.00
18616 †	300 lb (150 kg)	24 × 18 × 5.25 in	78 lb	$1,400.00
18618 †	500 lb (250 kg)	24 × 18 × 5.25 in	78 lb	$1,400.00
18620 ††	1,000 lb (500 kg)	24 × 18 × 5.25 in	78 lb	$1,400.00
18622 †	100 lb (50 kg)	24 × 24 × 5.25 in	78 lb	$1,545.00
18624 †	150 lb (75 kg)	24 × 24 × 5.25 in	84 lb	$1,545.00
18626 †	200 lb (100 kg)	24 × 24 × 5.25 in	84 lb	$1,545.00
18628 †	250 lb (125 kg)	24 × 24 × 5.25 in	84 lb	$1,545.00
18630 †	300 lb (150 kg)	24 × 24 × 5.25 in	84 lb	$1,545.00
18632 †	500 lb (250 kg)	24 × 24 × 5.25 in	84 lb	$1,545.00
18634 ††	1,000 lb (500 kg)	24 × 24 × 5.25 in	84 lb	$1,545.00

Options/Accessories

Part #	Description	Catalog Page #
Consult	Scale columns	See page 195
Consult	Ball transfer and roller conveyor scale tops	See page 194
Consult	Mobile scale carts	See page 190 to page 193



Standard Features

- NTEP Certified load cell
- Painted mild steel frame with 304 stainless steel cover
- Base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

Specifications

Load Cell:
IP66, environmentally sealed
Aluminum

Output Impedance:
350 ohm

Maximum Overload:
150% to 200% depending on capacity

Overload Protection:
Five-point, independently adjusted

Scale Frame:
Mild steel powder coated black

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
10 ft (3 m)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 95-072, Class III, 5,000 d
Measurement Canada AM-5082
Load cell is NTEP
Load cell is FM/cFMus approved

Dimensions

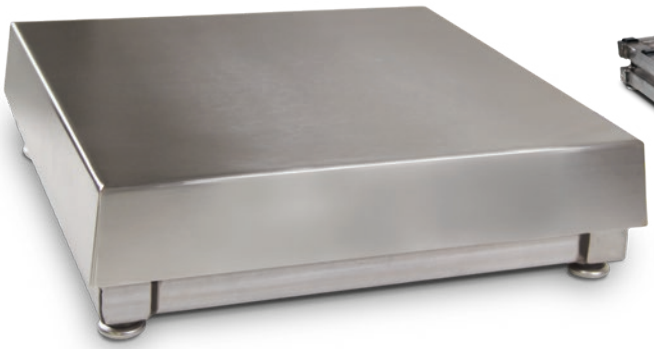
BenchMark MS			
12 × 12 in			
H	4.12 in	W	12.00 in
L	12.00 in	W1	12.50 in
L1	12.50 in		
12 × 18 in			
H	4.12 in	W	18.00 in
L	12.00 in	W1	18.50 in
L1	12.50 in		
18 × 18 in			
H	5.25 in	W	18.00 in
L	18.00 in	W1	18.75 in
L1	18.75 in		
24 × 18 in			
H	5.25 in	W	18.00 in
L	24.00 in	W1	18.75 in
L1	24.75 in		
24 × 24 in			
H	5.25 in	W	24.00 in
L	24.00 in	W1	24.75 in
L1	24.75 in		

Note: 1 in = 25.4 mm

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BenchMark® SS

Stainless Steel Bench Scale







Approvals

Measurement Canada Approved

† Load cell approval

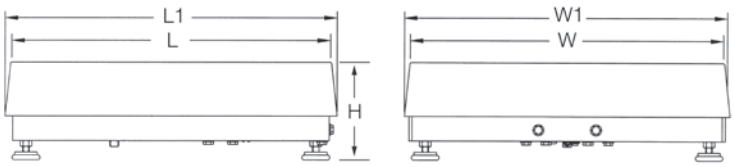
†† Load cell approval

Part Number/Price

Part #	Capacity	Platform Dimensions (L × W × H)	Est. Weight	Price
186222 †	50 lb (25 kg)	12 × 18 × 4.00 in	37 lb	$1,095.00
186223 †	100 lb (50 kg)	12 × 18 × 4.00 in	37 lb	$1,095.00
18591 †	50 lb (25 kg)	18 × 18 × 5.25 in	68 lb	$1,515.00
18593 †	100 lb (50 kg)	18 × 18 × 5.25 in	68 lb	$1,515.00
18595 †	150 lb (75 kg)	18 × 18 × 5.25 in	68 lb	$1,515.00
18597 †	200 lb (100 kg)	18 × 18 × 5.25 in	68 lb	$1,515.00
18599 †	250 lb (125 kg)	18 × 18 × 5.25 in	68 lb	$1,515.00
18601 †	300 lb (150 kg)	18 × 18 × 5.25 in	68 lb	$1,515.00
18603 †	500 lb (250 kg)	18 × 18 × 5.25 in	68 lb	$1,515.00
18605 ††	1,000 lb (500 kg)	18 × 18 × 5.25 in	68 lb	$1,515.00
18607 †	50 lb (25 kg)	24 × 18 × 5.25 in	78 lb	$1,800.00
18609 †	100 lb (50 kg)	24 × 18 × 5.25 in	78 lb	$1,800.00
18611 †	150 lb (75 kg)	24 × 18 × 5.25 in	78 lb	$1,800.00
18613 †	200 lb (100 kg)	24 × 18 × 5.25 in	78 lb	$1,800.00
18615 †	250 lb (125 kg)	24 × 18 × 5.25 in	78 lb	$1,800.00
18617 †	300 lb (150 kg)	24 × 18 × 5.25 in	78 lb	$1,800.00
18619 †	500 lb (250 kg)	24 × 18 × 5.25 in	78 lb	$1,800.00
18621 ††	1,000 lb (500 kg)	24 × 18 × 5.25 in	78 lb	$1,800.00
18623 †	100 lb (50 kg)	24 × 24 × 5.25 in	84 lb	$2,215.00
18625 †	150 lb (75 kg)	24 × 24 × 5.25 in	84 lb	$2,215.00
18627 †	200 lb (100 kg)	24 × 24 × 5.25 in	84 lb	$2,215.00
18629 †	250 lb (125 kg)	24 × 24 × 5.25 in	84 lb	$2,215.00
18631 †	300 lb (150 kg)	24 × 24 × 5.25 in	84 lb	$2,215.00
18633 †	500 lb (250 kg)	24 × 24 × 5.25 in	84 lb	$2,215.00
18635 ††	1,000 lb (500 kg)	24 × 24 × 5.25 in	84 lb	$2,215.00

Options/Accessories

Part #	Description	Catalog Page #
Consult	Scale columns	See page 195
Consult	Ball transfer and roller conveyor scale tops	See page 194
Consult	Mobile scale carts	See page 190 to page 193



Standard Features

- NTEP Certified load cell
- 304 stainless steel frame and cover
- Base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

Specifications

Load Cell:
IP66, environmentally sealed
Aluminum

Output Impedance:
350 ohm

Maximum Overload:
150% to 200% depending on capacity

Overload Protection:
Five-point, independently adjusted

Scale Frame:
AISI304L, glass bead blasted for even appearance

Scale Cover:
AISI304L, straight line finish, Ra=45 ±10

Cable Length:
10 ft (3 m)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 95-072, Class III, 5,000 d
Measurement Canada AM-5082
Load cell is NTEP
Load cell is FM/cFMus approved

Dimensions

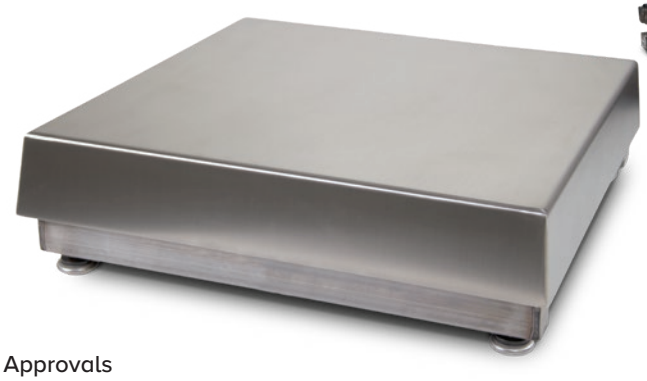
BenchMark SS			
12 × 18 in			
H	4.00 in	W	18.00 in
L	12.00 in	W1	18.50 in
L1	12.50 in		
18 × 18 in			
H	5.25 in	W	18.00 in
L	18.00 in	W1	18.75 in
L1	18.75 in		
18 × 24 in			
H	5.25 in	W	18.00 in
L	24.00 in	W1	18.75 in
L1	24.75 in		
24 × 24 in			
H	5.25 in	W	24.00 in
L	24.00 in	W1	24.75 in
L1	24.75 in		

Note: 1 in = 25.4 mm

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BenchMark® HE

Hostile Environment Bench Scale







Approvals

Measurement Canada Approved

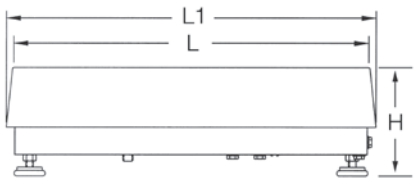
FM APPROVED

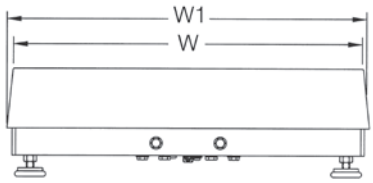
Part Number/Price

Part #	Capacity	Platform Dimensions (L × W × H)	Est. Weight	Price
186897	50 lb (25 kg)	12 × 18 × 4.00 in	37 lb	$1,555.00
186898	100 lb (50 kg)	12 × 18 × 4.00 in	37 lb	$1,555.00
86952	50 lb (25 kg)	18 × 18 × 5.25 in	68 lb	$1,870.00
86953	100 lb (50 kg)	18 × 18 × 5.25 in	68 lb	$1,870.00
86954	150 lb (75 kg)	18 × 18 × 5.25 in	68 lb	$1,870.00
86955	200 lb (100 kg)	18 × 18 × 5.25 in	68 lb	$1,870.00
86956	250 lb (125 kg)	18 × 18 × 5.5 in	68 lb	$2,235.00
86957	300 lb (150 kg)	18 × 18 × 5.5 in	68 lb	$2,235.00
86958	500 lb (250 kg)	18 × 18 × 5.5 in	68 lb	$2,235.00
86959	1,000 lb (500 kg)	18 × 18 × 5.5 in	68 lb	$2,235.00
86960	50 lb (25 kg)	24 × 18 × 5.5 in	78 lb	$2,525.00
86961	100 lb (50 kg)	24 × 18 × 5.5 in	78 lb	$2,525.00
86962	150 lb (75 kg)	24 × 18 × 5.5 in	78 lb	$2,525.00
86963	200 lb (100 kg)	24 × 18 × 5.5 in	78 lb	$2,525.00
86964	250 lb (125 kg	24 × 18 × 5.5 in	78 lb	$2,525.00
86965	300 lb (150 kg)	24 × 18 × 5.5 in	78 lb	$2,525.00
86966	500 lb (250 kg)	24 × 18 × 5.5 in	78 lb	$2,525.00
86967	1,000 lb (500 kg)	24 × 18 × 5.5 in	78 lb	$2,525.00
86968	100 lb (50 kg)	24 × 24 × 5.5 in	84 lb	$2,940.00
86969	150 lb (75 kg)	24 × 24 × 5.5 in	84 lb	$2,940.00
86970	200 lb (100 kg)	24 × 24 × 5.5 in	84 lb	$2,940.00
86971	250 lb (125 kg)	24 × 24 × 5.5 in	84 lb	$2,940.00
86972	300 lb (150 kg)	24 × 24 × 5.5 in	84 lb	$2,940.00
86973	500 lb (250 kg)	24 × 24 × 5.5 in	84 lb	$2,940.00
86974	1,000 lb (500 kg)	24 × 24 × 5.5 in	84 lb	$2,940.00

Options/Accessories

Part #	Description	Catalog Page #
Consult	Scale columns	See page 195
Consult	Ball transfer and roller conveyor scale tops	See page 194
Consult	Mobile scale carts	See page 190 to page 193





Standard Features

- NTEP Certified load cell
- 304 stainless steel frame and cover
- Base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

Specifications

Load Cell:
IP69K, hermetically sealed stainless steel

Output Impedance:
1,000 ohm

Maximum Overload:
150% to 200% depending on capacity

Overload Protection:
Five-point, independently adjusted

Scale Frame:
AISI304L, glass bead blasted for even appearance

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
10 ft (3 m)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Three-year limited
(includes water ingress)

Approvals:
NTEP 95-072, Class III, 5,000 d
Measurement Canada AM-5082
Load cell is NTEP
Load cell is FM approved

Dimensions

BenchMark HE			
12 × 18 in			
H	4.00 in	W	18.00 in
L	12.00 in	W1	18.50 in
L1	12.50 in		
18 × 18 × 5.25 in			
H	5.25 in	W	18.00 in
L	18.00 in	W1	18.75 in
L1	18.75 in		
18 × 18 × 5.5 in			
H	5.50 in	W	18.00 in
L	18.00 in	W1	18.75 in
L1	18.75 in		
18 × 24 in			
H	5.50 in	W	18.00 in
L	24.00 in	W1	18.75 in
L1	24.75 in		
24 × 24 in			
H	5.50 in	W	24.00 in
L	24.00 in	W1	24.75 in
L1	24.75 in		

Note: 1 in = 25.4 mm

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BenchMark® HE-X

Hostile Environment Extreme Bench Scale



Approvals

NSF FM APPROVED

Standard Features

- NTEP, IP69K Certified load cell
- Washdown design
- 304 stainless steel frame and cover constructed with continuous welds
- Removable cover
- Four adjustable stainless steel support feet
- Meets sanitary design principles
- Meets HACCP requirements

Specifications

Load Cell:
IP69K, hermetically sealed
Stainless steel

Output Impedance:
1,000 ohm

Maximum Overload:
150% to 200% depending on capacity

Overload Protection:
Five-point, independently adjusted

Scale Frame:
AISI304L, glass bead blasted for even appearance

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
10 ft (3 m)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Three-year limited
(includes water ingress)

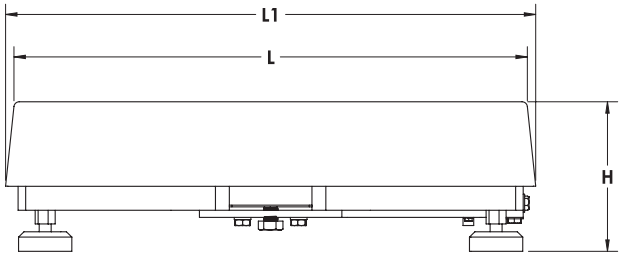
Approvals:
NSF
Load cell is NTEP
Load cell is FM approved

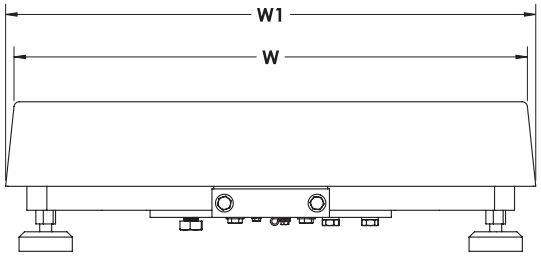
Dimensions

BenchMark HE-X			
12 × 12 in			
H	5.25 in	W	18.00 in
L	12.00 in	W1	18.50 in
L1	12.50 in		
18 × 18 in			
H	5.25 in	W	18.00 in
L	18.00 in	W1	18.75 in
L1	18.75 in		

18 × 24 in			
H	5.25 in	W	24.00 in
L	18.00 in	W1	24.75 in
L1	18.75 in		
24 × 24 in			
H	5.25 in	W	24.00 in
L	24.00 in	W1	24.75 in
L1	24.75 in		

Note: 1 in = 25.4 mm





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Part Number/Price

Part #	Capacity	Platform Dimensions (L × W × H)	Est. Weight	Price
192346	50 lb (25 kg)	12 × 18 × 5.25 in	59 lb	$3,075.00
192347	100 lb (50 kg)	12 × 18 × 5.25 in	59 lb	$3,075.00
191455	50 lb (25 kg)	18 × 18 × 5.25 in	73 lb	$3,255.00
191456	100 lb (50 kg)	18 × 18 × 5.25 in	73 lb	$3,255.00
191457	150 lb (75 kg)	18 × 18 × 5.25 in	73 lb	$3,255.00
191458	200 lb (100 kg)	18 × 18 × 5.25 in	73 lb	$3,255.00
191459	250 lb (125 kg)	18 × 18 × 5.25 in	73 lb	$3,255.00
191460	300 lb (150 kg)	18 × 18 × 5.25 in	73 lb	$3,255.00
191461	500 lb (250 kg)	18 × 18 × 5.25 in	73 lb	$3,255.00
191462	1,000 lb (500 kg)	18 × 18 × 5.25 in	73 lb	$3,255.00
191467	50 lb (25 kg)	18 × 24 × 5.25 in	90 lb	$3,515.00
191469	100 lb (50 kg)	18 × 24 × 5.25 in	90 lb	$3,515.00
191470	150 lb (75 kg)	18 × 24 × 5.25 in	90 lb	$3,515.00
191472	200 lb (100 kg)	18 × 24 × 5.25 in	90 lb	$3,515.00
191473	250 lb (125 kg)	18 × 24 × 5.25 in	90 lb	$3,515.00
191474	300 lb (150 kg)	18 × 24 × 5.25 in	90 lb	$3,515.00
191475	500 lb (250 kg)	18 × 24 × 5.25 in	90 lb	$3,515.00
191476	1,000 lb (500 kg)	18 × 24 × 5.25 in	90 lb	$3,515.00
191479	100 lb (50 kg)	24 × 24 × 5.25 in	122 lb	$3,780.00
191480	150 lb (75 kg)	24 × 24 × 5.25 in	122 lb	$3,780.00
191481	200 lb (100 kg)	24 × 24 × 5.25 in	122 lb	$3,780.00
191482	250 lb (125 kg)	24 × 24 × 5.25 in	122 lb	$3,780.00
191483	300 lb (150 kg)	24 × 24 × 5.25 in	122 lb	$3,780.00
191485	500 lb (250 kg)	24 × 24 × 5.25 in	122 lb	$3,780.00
191486	1,000 lb (500 kg)	24 × 24 × 5.25 in	122 lb	$3,780.00

Options/Accessories

Part #	Description	Catalog Page #
Consult	Scale columns	See page 195
Consult	Ball transfer and roller conveyor scale tops	See page 194
Consult	Mobile scale carts	See page 190 to page 193

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BenchMark® LP

Low-profile Bench Scale



Ideal for aviation weighing. A complete system can be sold with the Tracer® AV2. Reference Aviation section for specifications.

Approvals

Measurement Canada Approved

Part Number/Price

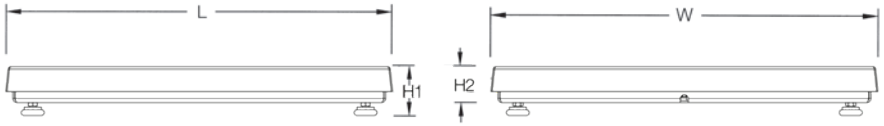
Part #	Capacity	Platform Dimensions L × W × H1 (H2)	Est. Weight	Price
97662	100 lb (50 kg)	18 × 18 × 2.63 in (1.67 in*)	75 lb	$1,455.00
97663	250 lb (125 kg)	18 × 18 × 2.50 in (1.74 in*)	85 lb	$1,485.00
97664	500 lb (250 kg)	18 × 18 × 2.69 in (1.93 in*)	85 lb	$1,525.00
97665	100 lb (50 kg)	24 × 24 × 2.66 in (1.69 in*)	85 lb	$1,740.00
97666	250 lb (125 kg)	24 × 24 × 2.83 in (2.07 in*)	100 lb	$1,765.00
97667	500 lb (250 kg)	24 × 24 × 3.02 in (2.26 in*)	100 lb	$1,800.00
97668	500 lb (250 kg)	30 × 30 × 3.02 in (2.26 in*)	150 lb	$2,075.00
97669**	1,000 lb (500 kg)	30 × 30 × 3.47 in (2.70 in*)	190 lb	$2,145.00
97670	500 lb (250 kg)	36 × 36 × 3.02 in (2.26 in*)	175 lb	$2,720.00
97671**	1,000 lb (500 kg)	36 × 36 × 3.47 in (2.70 in*)	175 lb	$2,785.00

*Height without adjustable leveling feet

** Non-NTEP or Measurement Canada Approved

Options/Accessories

Part #	Description	Price
208904	20 ft cable with DB-9 connector for connecting to Tracer AV2	$95.00



Dimensions

BenchMark LP			
PN 97662			
H1	2.63 in	L	18.00 in
H2	1.67 in	W	18.00 in
PN 97663			
H1	2.50 in	L	18.00 in
H2	1.74 in	W	18.00 in
PN 97664			
H1	2.69 in	L	18.00 in
H2	1.93 in	W	18.00 in
PN 97665			
H1	2.66 in	L	24.00 in
H2	1.69 in	W	24.00 in

Note: 1 in = 25.4 mm

PN 97666			
H1	2.83 in	L	24.00 in
H2	2.07 in	W	24.00 in
PN 97667			
H1	3.02 in	L	24.00 in
H2	2.26 in	W	24.00 in
PN 97668			
H1	3.02 in	L	30.00 in
H2	2.26 in	W	30.00 in
PN 97669			
H1	3.47 in	L	30.00 in
H2	2.70 in	W	30.00 in

Note: 1 in = 25.4 mm

PN 97670			
H1	3.02 in	L	36.00 in
H2	2.26 in	W	36.00 in
PN 97671			
H1	3.47 in	L	36.00 in
H2	2.70 in	W	36.00 in

Note: 1 in = 25.4 mm

Standard Features

- Mild steel base construction
- 304 stainless steel cover
- ABS junction box
- Four planar beam load cells
- Adjustable leveling feet
- 20 ft of EL147 load cell cable
- Holes in lower frame for mounting scale without adjustable leveling feet

Specifications

Load Cell:
IP65
Aluminum

Output:
1.0 mV/V ± 10%

End Load Capacity:
60% of full scale capacity

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Scale Frame:
Mild steel powder coated black

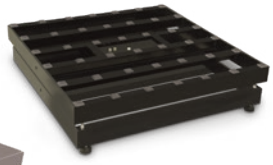
Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Warranty:
Two-year limited

Approvals:
NTEP 08-017, Class III 5,000 d
(except 1,000 lb capacity)
Measurement Canada AM 5660
(except 500 kg capacity)

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Approvals

Measurement Canada Approved

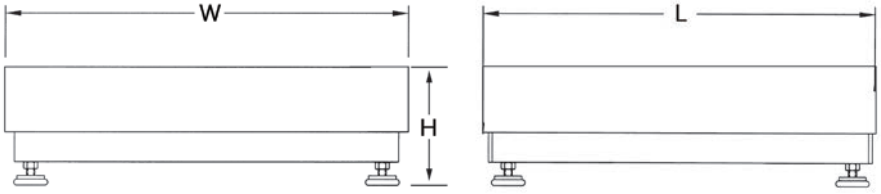
Part Number/Price

Part #	Capacity	Platform Dimensions (L × W × H)	Est. Weight	Price
93414	250 lb (125 kg)	30 × 30 × 8.75 in	300 lb	$2,230.00
93415	500 lb (225 kg)	30 × 30 × 8.75 in	300 lb	$2,230.00
93416	250 lb (125 kg)	36 × 36 × 8.75 in	330 lb	$2,700.00
93417	500 lb (225 kg)	36 × 36 × 8.75 in	330 lb	$2,700.00

Dimensions

BenchMark HD			
30 × 30 in			
H	8.75 in	W	30.00 in
L	30.00 in		
36 × 36 in			
H	8.75 in	W	36.00 in
L	36.00 in		

Note: 1 in = 25.4 mm



Standard Features

- Heavy-duty designed mild steel base construction with 304 stainless steel cover
- Polyurethane rubber leveling feet with stainless steel stems

Specifications

Load Cell:
IP67, environmentally sealed
Aluminum

Output Impedance:
350 ohm

Maximum Overload:
200%

Overload Protection:
Five-point, independently adjusted

Scale Frame:
Mild steel powder coated black

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
10 ft (3 m)

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

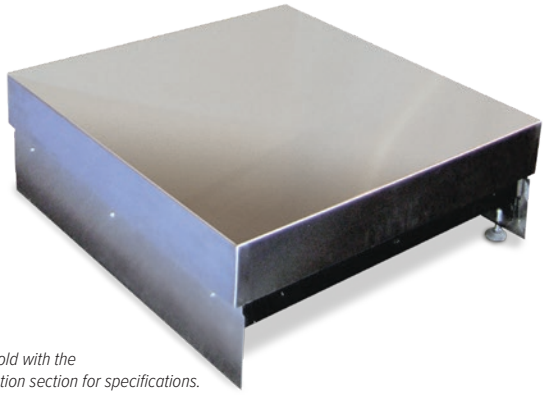
Warranty:
Two-year limited

Approvals:
NTEP 06-010, Class III 5,000 d
Measurement Canada AM-5625
Load cell is cFMus approved

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BenchMark® HD-1

Aviation Scale



Ideal for aviation weighing.
A complete system can be sold with the Tracer® AV2. Reference Aviation section for specifications.

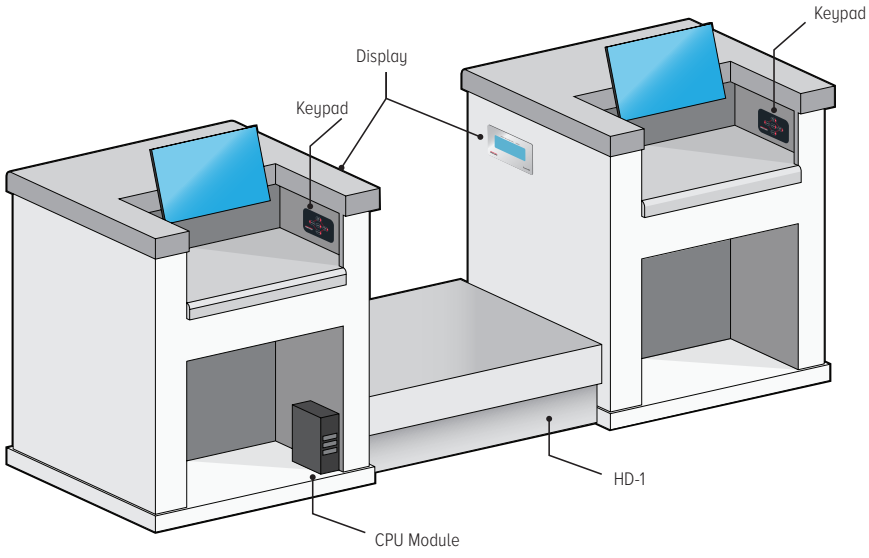
Approvals

Measurement Canada Approved

Part Number/Price

Part #	Capacity	Platform Dimensions	Price
Consult	500 lb (225 kg)	W × D × 12 in	Consult

Note: Maximum size is up to 36 in × 36 in, height is always 12 in W × D supplied by customer



Baggage weighing system with Benchmark HD-1 and Tracer AV2 dual LCD panel mount display, dual keypad

Standard Features

- Heavy-duty scale designed mild steel base construction with 304 stainless steel cover
- Polyurethane rubber leveling feet with stainless steel stems
- Load cell comes standard with DB-9 connector for connecting to Tracer AV2
- Front and back kick plates

Specifications

Load Cell:
IP67, environmentally sealed
Aluminum

Output Impedance:
350 ohm

Maximum Overload:
200%

Overload Protection:
Five-point, independently adjusted

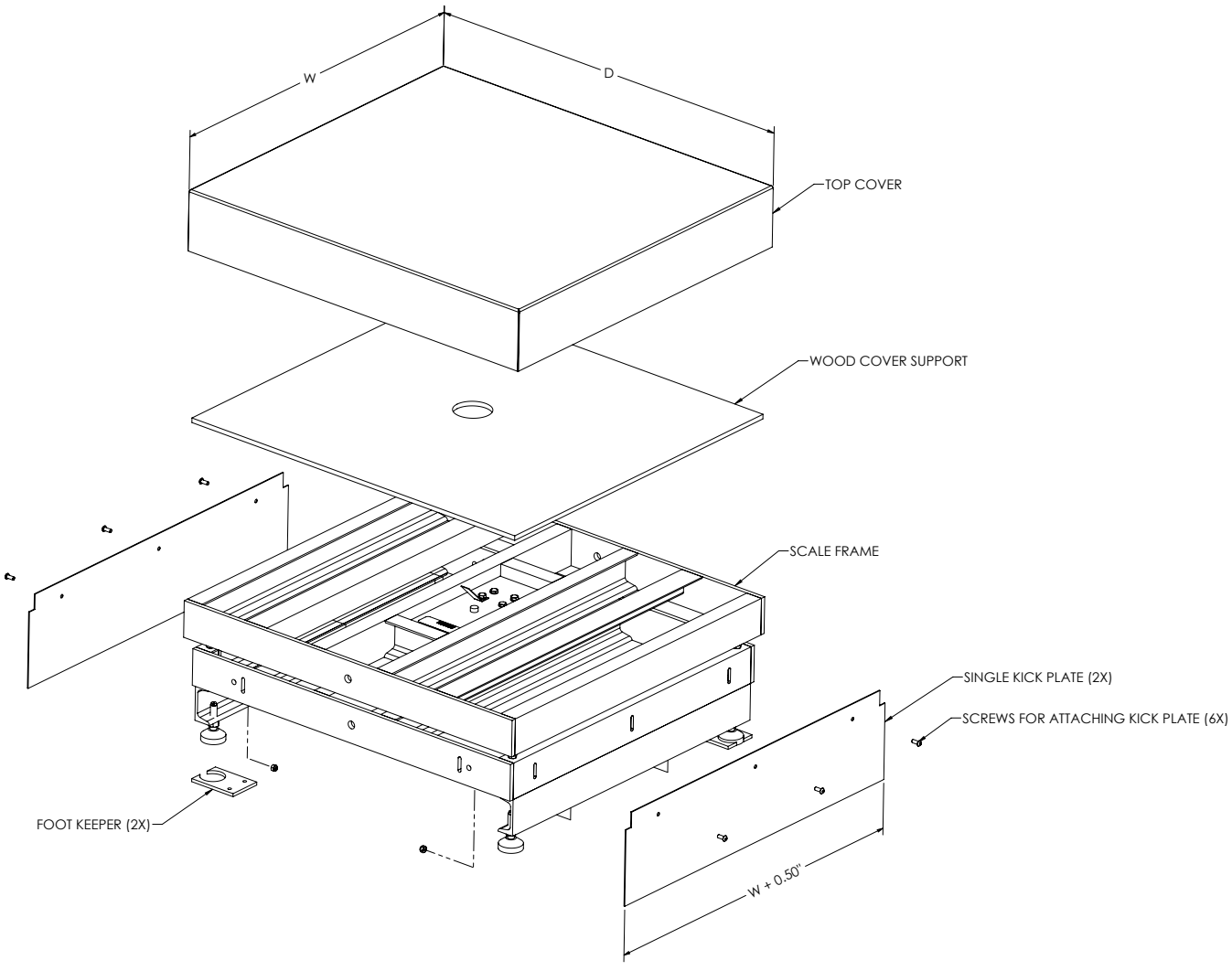
Cable Length:
10 ft (3 m)

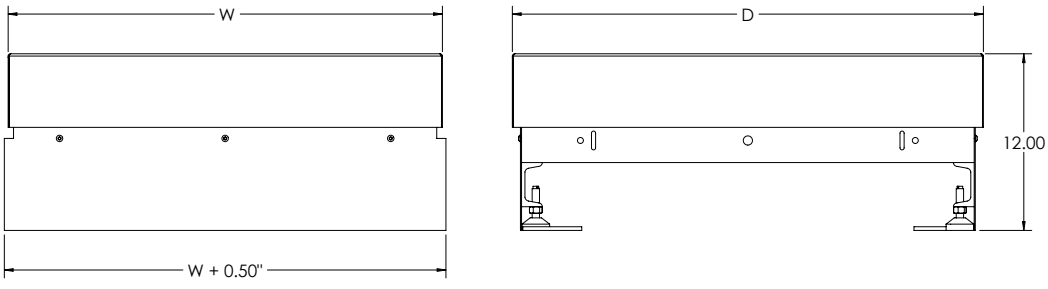
Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 06-010, Class III 5,000 d
Measurement Canada AM-5625
Load cell is cFMus approved

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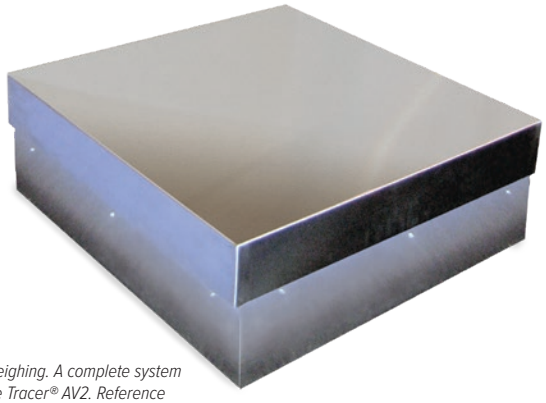




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BenchMark® HD-2

Aviation Scale



Ideal for aviation weighing. A complete system can be sold with the Tracer® AV2. Reference Aviation section for specifications.

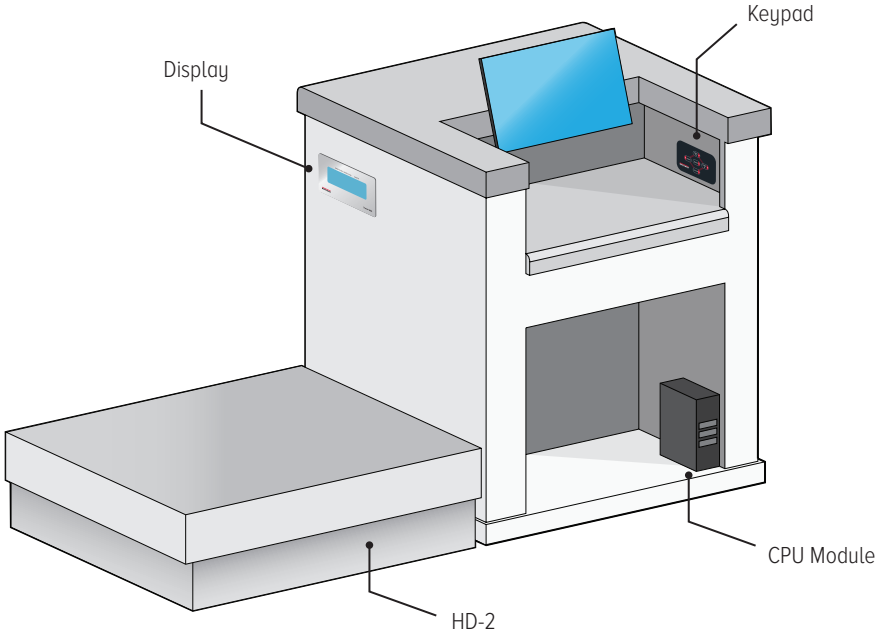
Approvals

Measurement Canada Approved

Part Number/Price

Part #	Capacity	Platform Dimensions	Price
Consult	500 lb (225 kg)	W × D × 12 in	Consult

Note: Maximum size is up to 36 in × 36 in, height is always 12 in W × D supplied by customer.



Baggage weighing system with Benchmark HD-2 and Tracer AV2 single LCD panel mount display, single keypad

Standard Features

- Heavy-duty scale designed mild steel base construction with 304 stainless steel cover
- Polyurethane rubber leveling feet with stainless steel stems
- Load cell comes standard with DB-9 connector for connecting to Tracer AV2
- Three-sided kick plate

Specifications

Load Cell:
IP67, environmentally sealed
Aluminum

Output Impedance:
350 ohm

Maximum Overload:
200%

Overload Protection:
Five-point, independently adjusted

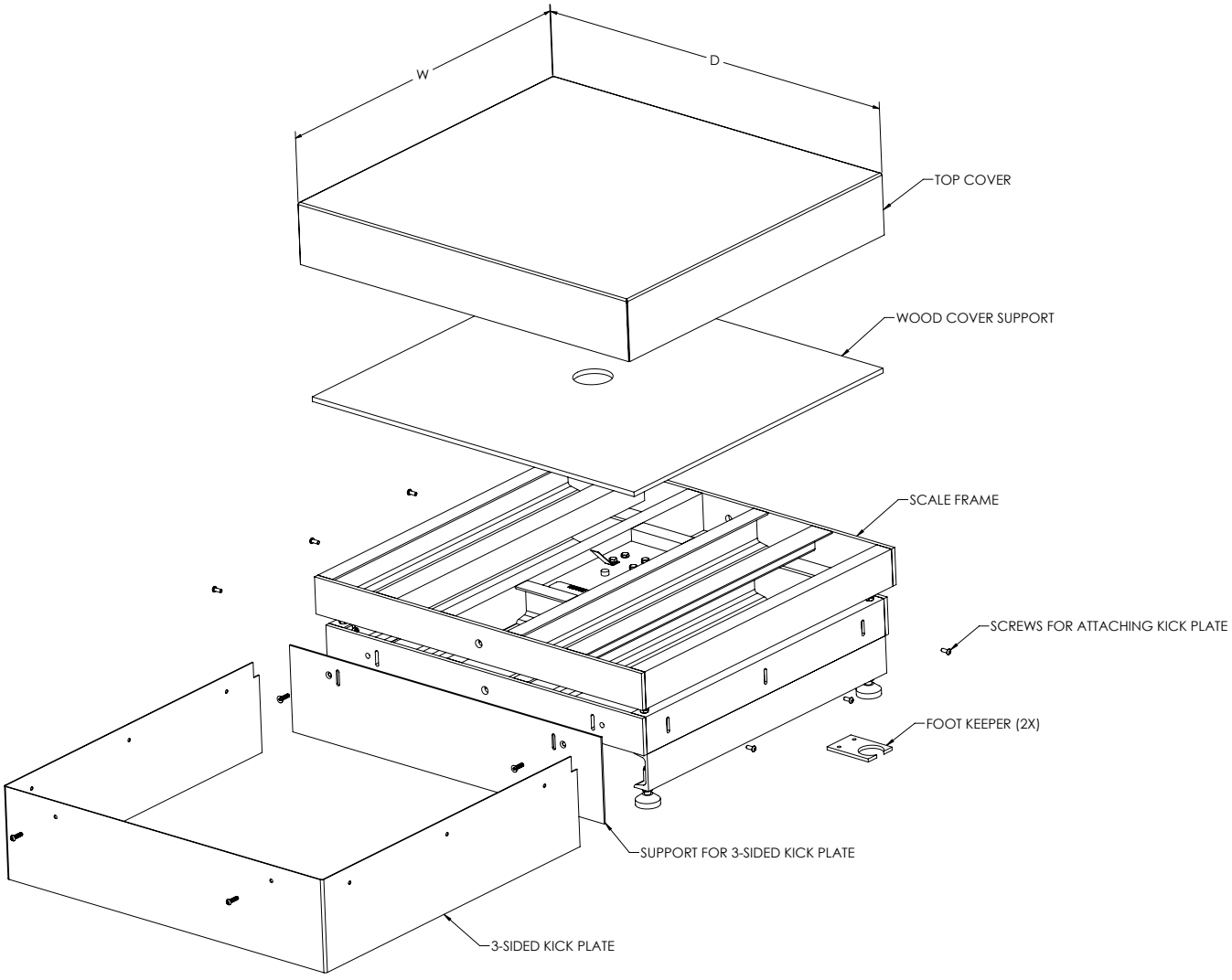
Cable Length:
10 ft (3 m)

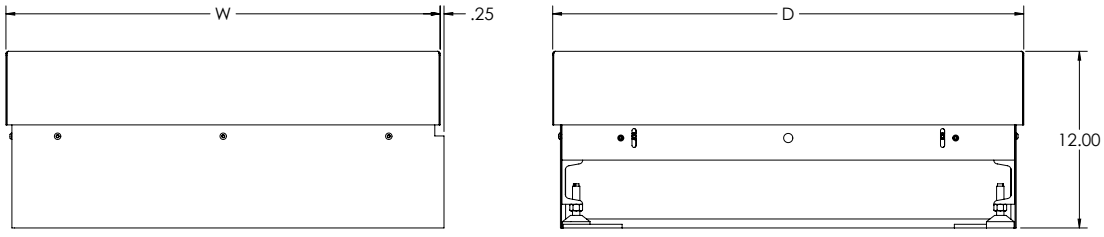
Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 06-010, Class III 5,000 d
Measurement Canada AM-5625
Load cell is cFMus approved

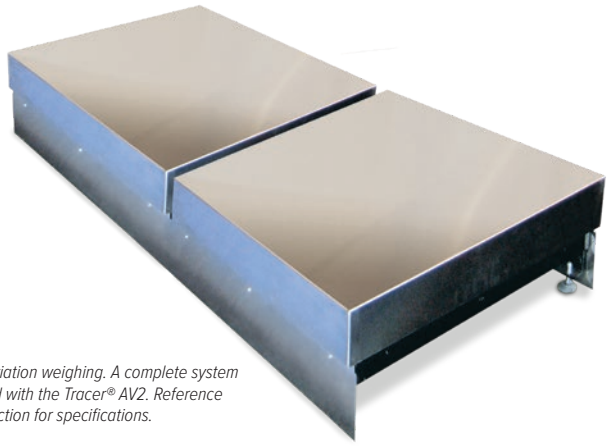
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W
D
TOP COVER
WOOD COVER SUPPORT
SCALE FRAME
SCREWS FOR ATTACHING KICK PLATE
FOOT KEEPER (2X)
SUPPORT FOR 3-SIDED KICK PLATE
3-SIDED KICK PLATE


W
.25
D
12.00

BenchMark® HD-3

Aviation Scale



Ideal for aviation weighing. A complete system can be sold with the Tracer® AV2. Reference Aviation section for specifications.

Approvals

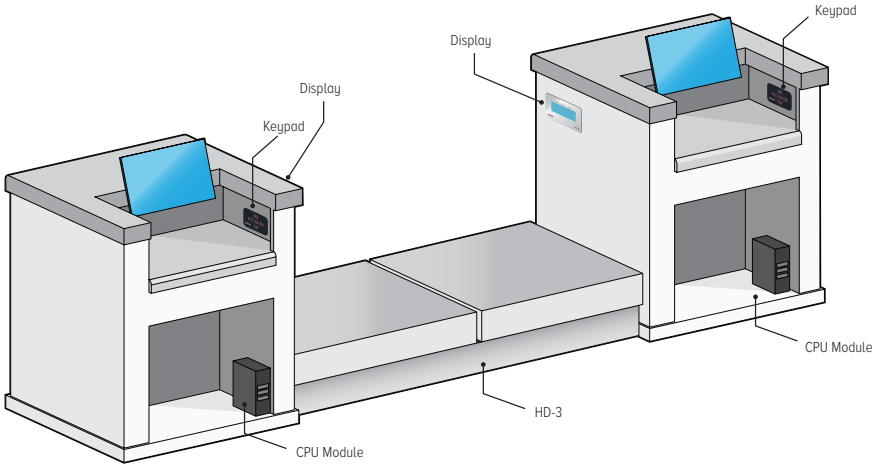
Measurement Canada Approved

FM APPROVED

Part Number/Price

Part #	Capacity	Platform Dimensions	Price
Consult	500 lb (225 kg)	W × D × 12 in	Consult

Note: Maximum size is up to 36 in × 36 in, height is always 12 in W × D supplied by customer.



Baggage weighing system with Benchmark HD-3 and Tracer AV2 single LCD panel mount display, single keypad

Standard Features

- Two heavy-duty scales designed mild steel base construction with 304 stainless steel cover
- Polyurethane rubber leveling feet with stainless steel stems
- Load cell comes standard with DB-9 connector for connecting to Tracer AV2
- Front and back kick plates for two side-by-side scales

Specifications

Load Cell:
IP67, environmentally sealed
Aluminum

Output Impedance:
350 ohm

Maximum Overload:
200%

Overload Protection:
Five-point, independently adjusted

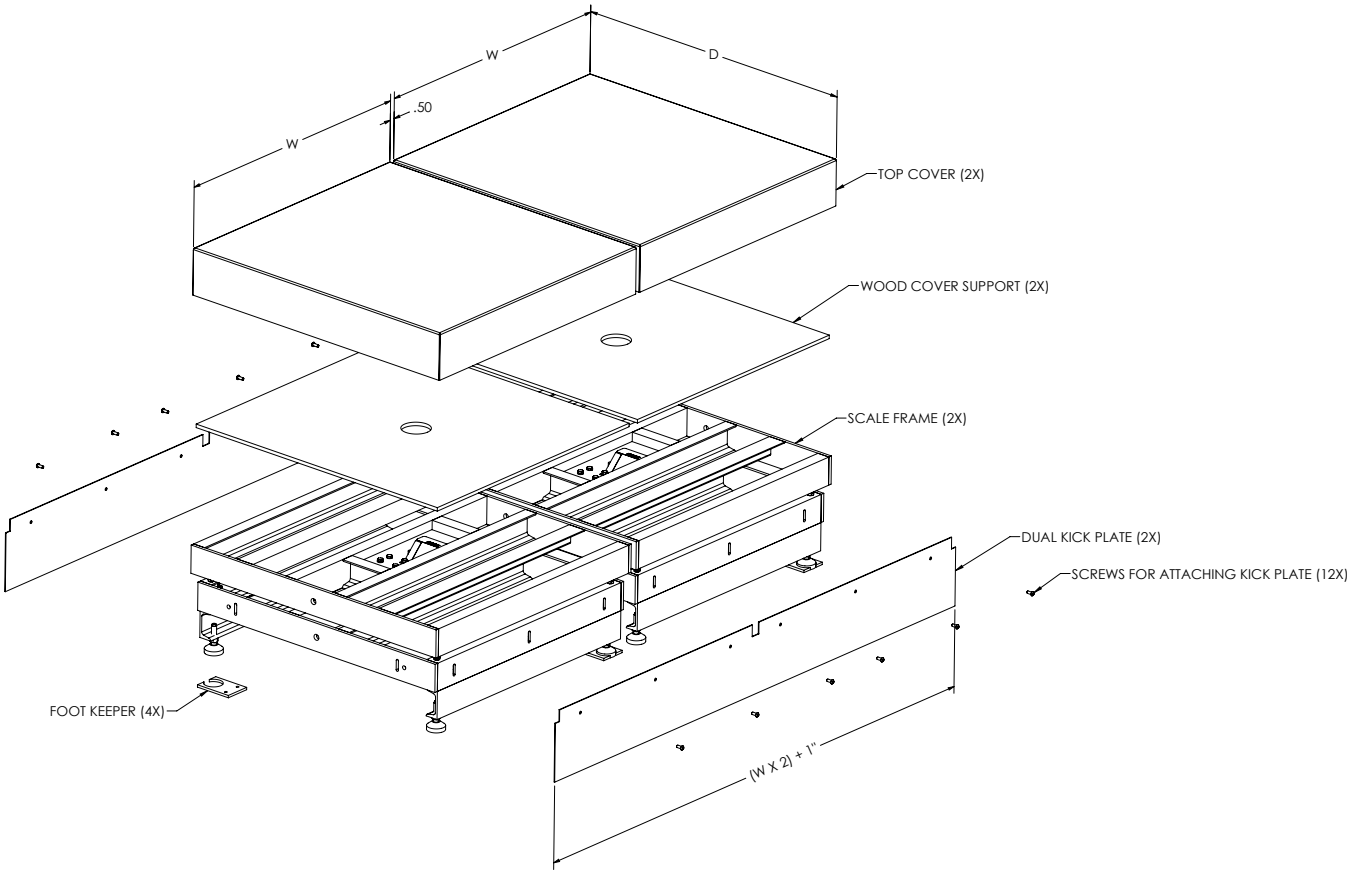
Cable Length:
10 ft (3 m)

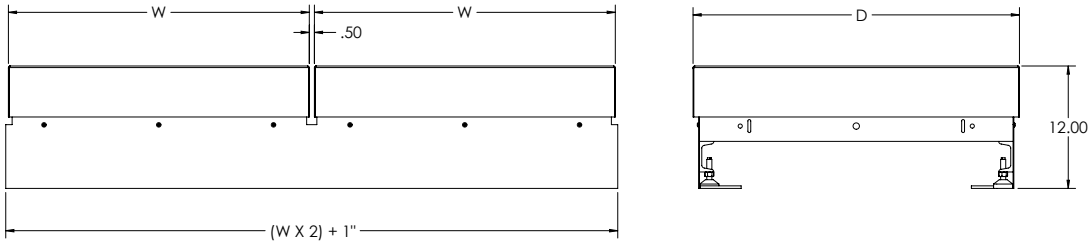
Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 06-010, Class III 5,000 d
Measurement Canada AM-5625
Load cell is cFMus approved

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W
D
.50
W
TOP COVER (2X)
WOOD COVER SUPPORT (2X)
SCALE FRAME (2X)
DUAL KICK PLATE (2X)
SCREWS FOR ATTACHING KICK PLATE (12X)
FOOT KEEPER (4X)
(W X 2) + 1"


W
.50
W
(W X 2) + 1"
D
12.00

BenchMark® HDP

Heavy-duty Portable Scale



Wheel Model

Caster Model

Approvals

Measurement Canada Approved

Part Number/Price

Part #	Capacity	Platform Dimensions	Est. Weight	Price
Wheel Model				
97072	250 lb (125 kg)	24 × 24 × 8.75 in	275 lb	$2,695.00
97073	500 lb (225 kg)	24 × 24 × 8.75 in	275 lb	$2,695.00
Caster Model				
97074	250 lb (125 kg)	24 × 24 × 9.31 in	290 lb	$2,695.00
97075	500 lb (225 kg)	24 × 24 × 9.31 in	290 lb	$2,695.00

Standard Features

- Mild steel base construction
- 304 stainless steel cover
- Indicator stand for mounting 380 Synergy

Wheel model

- Polyurethane rubber leveling feet with stainless steel stems
- 8-inch diameter preformed rubber wheels with ball bearings

Caster model

- 3 1/2 in diameter preformed rubber casters, two fixed, two swivel with lock

Specifications

Load Cell:
IP67, environmentally sealed Aluminum

Output Impedance:
350 ohm

Maximum Overload:
200%

Overload Protection:
Five-point, independently adjusted

Scale Frame:
Mild steel powder-coated black

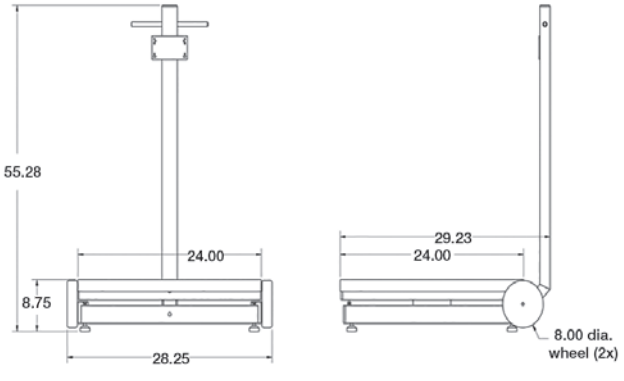
Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Cable Length:
10 ft (3 m)

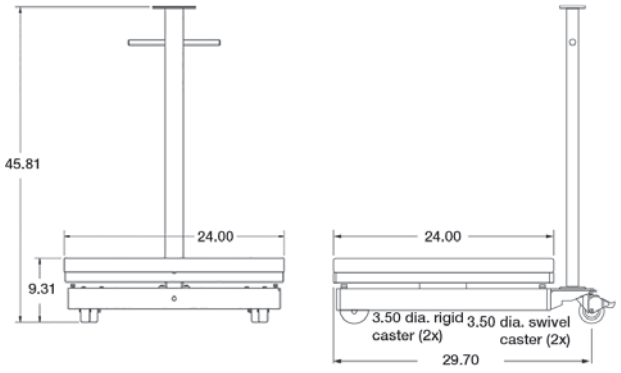
Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited

Approvals:
NTEP 06-010, Class III 5,000 d
Measurement Canada AM-5625



Wheel Model



Caster Model

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Approvals

Measurement Canada Approved

Part Number/Price

Part #	Description	Capacity	Est. Weight	Price
115125	RLP-6S	6.00 × 0.002 lb	15 lb (6.3 kg)	$500.00
115128	RLP-15S	15.00 × 0.005 lb	15 lb (6.3 kg)	$500.00
115129	RLP-30S	30.00 × 0.01 lb	15 lb (6.3 kg)	$500.00
115130	RLP-60S	60.00 × 0.02 lb	15 lb (6.3 kg)	$500.00

Options/Accessories

Part #	Description	Price
108516	Rechargeable battery	$50.00
108518	AC adapter 110-230 VAC, U.S. plug	$50.00
129953	AC adapter, 110-230 VAC, Euro plug	$55.00
115519	Additional operator guide	$10.00

Standard Features

- Compact and easy to use
- IP68 water and dust resistant
- Stainless steel finish
- Removable weigh pan for quick and easy cleaning
- LED display
- AC adapter included
- Legal for Trade
- HACCP compliant

Options

- Rechargeable battery

Specifications

Display:
LED, six-digit

Capacity:

	Pound	Gram	Ounce
RLP-6S	6.0 × 0.002 lb	3,000 × 1 g	60.0 × 0.02 oz
RLP-15S	15.0 × 0.005 lb	6,000 × 2 g	150.0 × 0.05 oz
RLP-30S	30.0 × 0.01 lb	15,000 × 5 g	300.0 × 0.1 oz
RLP-60S	60.0 × 0.02 lb	30,000 × 10 g	600.0 × 0.2 oz

Annunciators:
Ounces, grams, pounds, net, center of zero, battery usage

Keyboard:
Rezero, tare, on/off, unit

Resolution:
Internal: 90,000 count
Display: 3,000

Humidity:
15 to 85% RH

Temperature:
Operating: 14 °F to 104 °F (-10 °C to 40 °C)

Power Consumption:
18 W when using DC power, 3 W when using rechargeable battery

Power Source:
AC 117/100 V, 240/230/220 V
DC 12 V/1.5 A, DC 6 V 5 Ah optional rechargeable battery

Optional Battery:
60 hours of continuous usage

Calibration:
RLP-S: Grams

Overall Dimensions:
(L × W × H)
11.4 × 9.9 × 5.3 in
(290 × 252 × 135 mm)

Package Size:
(L × W × H)
14.8 × 13.3 × 9.6 in
(377 × 337 × 245 mm)

Platter Size:
9.3 × 7.8 in
(237 × 198.0 mm)

Warranty:
One-year limited

Approvals:
NTEP 10-068, Class III 3,000 d
Measurement Canada AM-5794

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BenchPro™ BP-P

Digital Postal Scale



Standard Features

- Simple operation, easy to set up
- Large six-digit backlight LCD display with 1-inch (29 mm) characters protected by heavy-duty tempered glass
- Powered USB HID point of sale interface, kg model only
- Nine-pin RS-232 interface for use with SMA and NCI protocols
- Four AA alkaline battery operation for portability
- Gravitational compensation allows for adjustment of factory calibration to meet your local gravity setting, non-approved

Approvals

Measurement Canada Approved

Part Number/Price

Part #	Platform Capacity	Dimensions	Est. Weight	Price
187832	35 kg triple range	12 × 14 in	18 lb	$775.00
195741	35 kg triple interval	12 × 14 in	18 lb	$775.00
192361	70 lb dual range	12 × 14 in	18 lb	$775.00
195742	70 lb dual interval	12 × 14 in	18 lb	$775.00

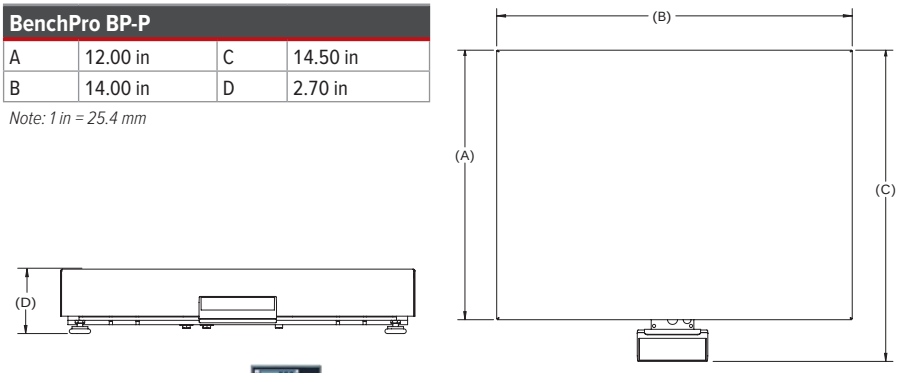
Options/Accessories

Part #	Description	Est. Weight	Price
174783	Column bracket and post (12 × 14 scale only)	2 lb	$50.00
180901	Second customer display, BenchPro BP-P no keyboard with 68 in cable	4 lb	$72.00
174784	Second remote operator display, BenchPro BP-P with 68 in cable	4 lb	$88.00
183103	16 in (H) tabletop display post for use with second display, customer or remote operator	4 lb	$215.00
178501	USB RS-232 serial adapter 3.28 ft cable	1 lb	$60.00

Dimensions

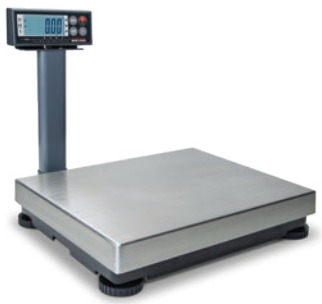
BenchPro BP-P			
A	12.00 in	C	14.50 in
B	14.00 in	D	2.70 in

Note: 1 in = 25.4 mm





BP-P shown with 183103 and 180901



Shown with 174783

Specifications

Power:
In-line power supply (included)

Input:
100 to 240 VAC, +10% -15%, 3-wire w/ground
Terminated with standard USA 3-prong plug

Output:
12 V at 0.1 Amps DC minimum

Frequency:
50/60 Hz ± 3 Hz

Power Supply Approvals:
UL, CE, EN, CUL

Battery Type:
Four AA alkaline batteries, 6 V,
with low battery indication at 4.3 volts

Battery Life:
50 to 250 hrs depending on backlight and auto-shutdown settings

Excitation:
3.0 mV/V

Resolution:
Internal: 500,000 counts

USB HID:
USB 2.0 full speed; Vendor ID: 1C19;
Product ID: 0002

Divisions (Multi-range):
kg triple range:
0 to 5 kg × 0.001 kg
0 to 10 kg × 0.002 kg
0 to 35 kg × 0.01 kg
lb/oz dual range:
0 to 7 lb × 0.05 oz
0 to 70 lb × 0.2 oz

Divisions (Multi-interval):
kg triple interval:
0 to 5 kg × 0.001 kg
5 to 10 kg × 0.002 kg
10 to 35 kg × 0.01 kg
Lb/oz dual interval:
0 to 7 lb × 0.05 oz
7 to 70 lb × 0.2 oz

Material:
Display: ABS plastic housing
Scale base: Die-cast aluminum load bridge and base housing with stainless steel weight platter

Dynamic Response:
Response time for stable weight:
0 to 1,000 d, 1,000 ms, maximum mean average
1,000 d +, 1,500 ms, maximum mean average

Overload Protection:
Corner and center overload protection

Display:
Large six-digit backlight LCD display with 1-inch (29 mm) characters protected by heavy-duty tempered glass

Annunciators:
Six: zero, gross/brutto, net, W1/W2/W3 multi-range

Keys/Buttons:
Three: units, on/off, F1
(Tare is not applicable)
Minimum key press life of 500,000 cycles

RS-232 Cable (Included):
10 ft DB 9-pin male to female, straight pass-through

USB Cable (Included):
46 in (1,168 mm) A/B type USB cable

Warranty:
Two-year limited

Approvals:
NTEP 17-002
Canada Weights and Measures: AM-6050
CE Marked

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BenchPro™ BP-S

Digital Shipping Scale



Approvals

Measurement Canada Approved

Part Number/Price

Part #	Platform Capacity	Dimensions	Est. Weight	Price
174879 *	150 × 0.05 lb (75 × 0.02 kg)	12 × 14 in	17 lb	$775.00
182993	150 × 0.05 lb (75 × 0.02 kg)	12 × 16 in	31 lb	$1,285.00
182391	100 × 0.02 lb (50 × 0.01 kg)	18 × 18 in	63 lb	$1,740.00
182378	150 × 0.05 lb (75 × 0.02 kg)	18 × 18 in	63 lb	$1,740.00
182382	300 × 0.1 lb (150 × 0.05 kg)	18 × 18 in	63 lb	$1,740.00
182395	300 × 0.1 lb (150 × 0.05 kg)	20 × 20 in	76 lb	$1,950.00
182399	300 × 0.1 lb (150 × 0.05 kg)	24 × 24 in	131 lb	$2,150.00

** Battery or DC power*

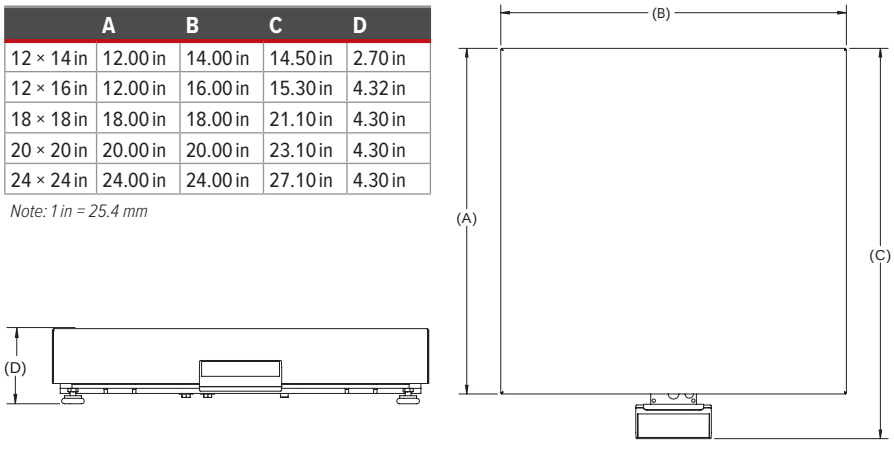
Options/Accessories

Part #	Description	Est. Weight	Price
174783	Column bracket and post (12 × 14 scale only)	2 lb	$50.00
180901	Second customer display, BenchPro BP-S no keyboard with 68 in cable	4 lb	$72.00
174784	Second remote operator display, BenchPro BP-S with 68 in cable	4 lb	$88.00
183103	16 in (H) tabletop display post for use with second display, customer or remote operator	4 lb	$215.00
178501	USB RS-232 serial adapter	1 lb	$60.00

Dimensions

	A	B	C	D
12 × 14 in	12.00 in	14.00 in	14.50 in	2.70 in
12 × 16 in	12.00 in	16.00 in	15.30 in	4.32 in
18 × 18 in	18.00 in	18.00 in	21.10 in	4.30 in
20 × 20 in	20.00 in	20.00 in	23.10 in	4.30 in
24 × 24 in	24.00 in	24.00 in	27.10 in	4.30 in

Note: 1 in = 25.4 mm





Standard Features

- Simple operation, easy to set up
- Large six-digit backlight LCD display with 1-inch (29 mm) characters protected by heavy-duty tempered glass
- Powered USB HID point of sale interface
- Nine-pin RS-232 interface for use with SMA and NCI protocols
- Four AA alkaline battery operation for portability
- Gravitational compensation allows for adjustment of factory calibration to meet your local gravity setting, non-approved
- Compatible with FedEx Ship Manager® and UPS Worldship®

Specifications

Power:
In-line power supply (included)

Input:
100 to 240 VAC, +10% -15%, 3-wire w/ground
Terminated with standard USA 3-prong plug

Battery:
(12 × 14 in scale only)
Four AA alkaline batteries,
6 V, with low battery indication at 4.3 volts

Power Consumption:
12 V at 0.1 amps DC minimum

Frequency:
50/60 Hz ± 3 Hz

Battery Life:
50 to 250 hrs depending on backlight and auto-shutdown settings

Excitation:
3.0 mV/V

Resolution:
Internal: 500,000 counts

USB HID:
USB 2.0 full speed; Vendor ID: 1C19;
Product ID: 0002

RS-232 Cable (Included):
10 ft DB 9-pin male to female, straight pass-through

USB Cable (Included):
46 in (1,168 mm) A/B type USB cable

Dynamic Response:
Response time for stable weight:
0 to 1,000 d, 1,000 ms, maximum mean average
1,000 d +, 1,500 ms, maximum mean average

Overload Protection:
Corner and center overload protection

Annunciators:
Six: zero, gross/brutto, net, W1/W2/W3 multi-range

Display:
Large six-digit backlight LCD display with 1-inch (25.4 mm) characters protected by heavy-duty tempered glass

Keys/Buttons:
Four: units, tare, on/off, F1
Minimum key press life of 500,000 cycles

Material:
Display: ABS plastic housing
Scale base: Powder coat painted mild steel base plate and load bridge with stainless steel weight platter
BP-S 12 × 14 in: Die-cast aluminum load bridge and base housing with stainless steel weight platter

Warranty:
Two-year limited

Approvals:
NTEP 17-002
Canada Weights and Measures: AM-6050
CE Marked

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BenchPro™ BP-SB

Ball Top Digital Shipping Scale



Approvals

Measurement Canada Approved

Part Number/Price

Part #	Capacity	Dimensions	Est. Weight	Price
182995	150 × 0.05 lb (75 × 0.02 kg)	12 × 16 in	37 lb	$1,545.00
182393	100 × 0.02 lb (50 × 0.01 kg)	18 × 18 in	73 lb	$2,140.00
182380	150 × 0.05 lb (75 × 0.02 kg)	18 × 18 in	73 lb	$2,140.00
182384	300 × 0.1 lb (150 × 0.05 kg)	18 × 18 in	73 lb	$2,140.00
182397	300 × 0.1 lb (150 × 0.05 kg)	20 × 20 in	88 lb	$2,375.00
182401	300 × 0.1 lb (150 × 0.05 kg)	24 × 24 in	131 lb	$2,615.00

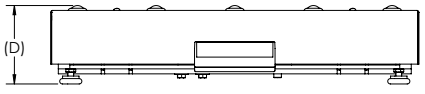
Options/Accessories

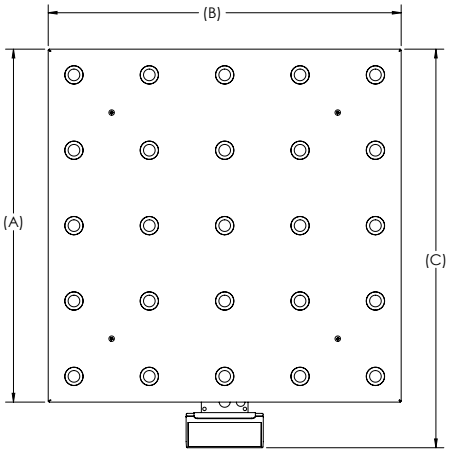
Part #	Description	Est. Weight	Price
180901	Second customer display, BenchPro BP-SB no keyboard with 68 in cable	4 lb	$72.00
174784	Second remote operator display, BenchPro BP-SB with 68 in cable	4 lb	$88.00
183103	16 in (H) tabletop display post for use with second display, customer or remote operator	4 lb	$215.00
178501	USB RS-232 serial adapter	1 lb	$60.00

Dimensions

	A	B	C	D
12 × 16 in	12.00 in	16.00 in	15.30 in	4.32 in
18 × 18 in	18.00 in	18.00 in	21.10 in	4.86 in
20 × 20 in	20.00 in	20.00 in	23.10 in	4.86 in
24 × 24 in	24.00 in	24.00 in	27.10 in	4.86 in

Note: 1 in = 25.4 mm





Standard Features

- Simple operation, easy to set up
- Large six-digit backlight LCD display with 1-inch (29 mm) characters protected by heavy-duty tempered glass
- Powered USB HID point of sale interface
- Nine-pin RS-232 interface for use with SMA and NCI protocols
- Gravitational compensation allows for adjustment of factory calibration to meet your local gravity setting, non-approved
- Compatible with FedEx Ship Manager® and UPS Worldship®

Specifications

Power:
In-line power supply (included)

Input:
100 to 240 VAC, +10% -15%, 3-wire w/ground
Terminated with standard USA 3-prong plug

Output:
12 V at 0.1 amps DC minimum

Frequency:
50/60 Hz ±3 Hz

Approvals:
UL, CE, EN, CUL

Excitation:
3.0 mV/V

Resolution:
Internal: 500,000 counts

USB HID:
USB 2.0 full speed; Vendor ID: 1C19;
Product ID: 0002

RS-232 Cable (Included):
10 ft DB 9-pin male to female, straight pass-through

USB Cable (Included):
46 in (1,168 mm) A/B type USB cable

Dynamic Response:
Response time for stable weight:
0 to 1,000 d, 1,000 ms, maximum mean average
1,000 d +, 1,500 ms, maximum mean average

Overload Protection:
Corner and center overload protection

Annunciators:
Six: zero, gross/brutto, net, W1/W2/W3 multi-range

Display:
Large six-digit backlight LCD display with 1-inch (25.4 mm) characters protected by heavy-duty tempered glass

Keys/Buttons:
Four: units, tare, on/off, F1
Minimum key press life of 500,000 cycles

Material:
Display: A BS plastic housing
Scale base: Powder coat painted mild steel base plate and load bridge. Carbon steel ball with carbon steel zinc-plated housing. Stainless steel shroud.

Warranty:
Two-year limited

Approvals:
NTEP 17-002
Canada Weights and Measures: AM - 6050
CE Marked

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BenchPro™ BP-SR

Roller Top Digital Shipping Scale



Approvals

Measurement Canada Approved

Part Number/Price

Part #	Platform Capacity	Dimensions	Est. Weight	Price
182996	150 × 0.05 lb (75 × 0.02 kg)	12 × 16 in	41 lb	$1,460.00
182394	100 × 0.02 lb (50 × 0.01 kg)	18 × 18 in	77 lb	$1,925.00
182381	150 × 0.05 lb (75 × 0.02 kg)	18 × 18 in	77 lb	$1,925.00
182386	300 × 0.1 lb (150 × 0.05 kg)	18 × 18 in	77 lb	$1,925.00
182398	300 × 0.1 lb (150 × 0.05 kg)	20 × 20 in	94 lb	$2,065.00
182402	300 × 0.1 lb (150 × 0.05 kg)	24 × 24 in	131 lb	$2,265.00

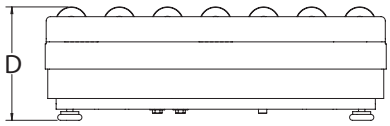
Options/Accessories

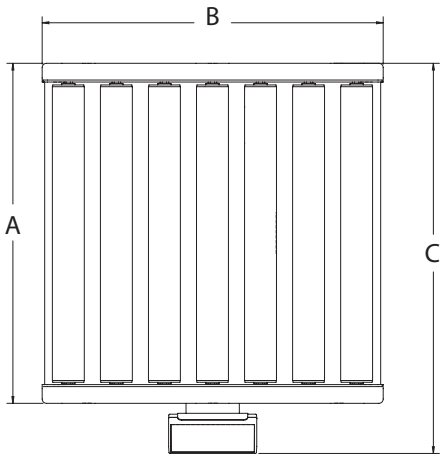
Part #	Description	Est. Weight	Price
180901	Second customer display, BenchPro BP-SR no keyboard with 68 in cable	4 lb	$72.00
174784	Second remote operator display, BenchPro BP-SR with 68 in cable	4 lb	$88.00
183103	16 in (H) tabletop display post for use with second display, customer or remote operator	4 lb	$215.00
178501	USB RS-232 serial adapter	1 lb	$60.00

Dimensions

	A	B	C	D
12 × 16 in	12.00 in	16.00 in	15.30 in	5.95 in
18 × 18 in	18.00 in	18.00 in	21.10 in	6.50 in
20 × 20 in	20.00 in	20.00 in	23.10 in	6.50 in
24 × 24 in	24.00 in	24.00 in	27.10 in	6.50 in

Note: 1 in = 25.4 mm





Standard Features

- Simple operation, easy to set up
- Large six-digit backlight LCD display with 1-inch (25.4-mm) characters protected by heavy-duty tempered glass
- Powered USB HID point of sale interface
- Nine-pin RS-232 interface for use with SMA and NCI protocols
- Gravitational compensation allows for adjustment of factory calibration to meet your local gravity setting, non-approved
- Compatible with FedEx Ship Manager® and UPS Worldship®

Specifications

Power:
In-line power supply (included)

Input:
100 to 240 VAC, +10% -15%, 3-wire w/ground
Terminated with standard USA 3-prong plug

Output:
12 V at 0.1 Amps DC minimum

Frequency:
50/60 Hz ± 3 Hz, standard

Approvals:
UL, CE, EN, CUL

Excitation:
3.0 mV/V

Resolution:
Internal: 500,000 counts

USB HID:
USB 2.0 full speed; Vendor ID: 1C19;
Product ID: 0002

RS-232 Cable (Included):
10 ft DB 9-pin male to female, straight pass-through

USB Cable (Included):
46 in (1,168 mm) A/B type USB cable

Dynamic Response:
Response time for stable weight:
0 to 1,000 d, 1,000 ms, maximum mean average
1,000 d +, 1,500 ms, maximum mean average

Overload Protection:
Corner and center overload protection

Annunciators:
Six: zero, gross/brutto, net, W1/W2/W3 multi-range

Display:
Large six-digit backlight LCD display with 1-inch (25.4 mm) characters protected by heavy-duty tempered glass

Keys/Buttons:
Four: units, tare, on/off, F1
Minimum key press life of 500,000 cycles

Material:
Display: ABS plastic housing
Scale base: Powder coat painted mild steel base plate and load bridge with galvanized roller conveyor

Warranty:
Two-year limited

Approvals:
NTEP 17-002
Canada Weights and Measures: AM-6050
CE Marked

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BenchMark® MSC-10

Mobile Scale Cart





Standard Features

- Two swivel, locking casters and two rigid casters
- Adjustable height with telescoping tube designed legs
- 18-inch indicator stand for mounting CW-90/90X, 680/682 Synergy, 380/380X Synergy

Specifications

Capacity:
1,000 lb (500 kg) maximum

Warranty:
One-year limited

Part Number/Price

Part #	Description	Cart Dimensions (L × W × H)	Est. Weight	Price
Mild Steel				
190201	Designed for 12 × 18 in Benchmark MS scale	25 × 14 × 41.89 to 51.89 in (22.78 to 32.78 in*)	70 lb	$1,400.00
190202	Designed for 18 × 18 in Benchmark MS scale	25 × 20 × 41.89 to 51.89 in (22.78 to 32.78 in*)	83 lb	$1,435.00
190203	Designed for 18 × 24 in Benchmark MS scale	31 × 20 × 41.89 to 51.89 in (22.78 to 32.78 in*)	93 lb	$1,470.00
190204	Designed for 24 × 24 in Benchmark MS scale	31 × 26 × 41.89 to 51.89 in (22.78 to 32.78 in*)	101 lb	$1,500.00
Stainless Steel				
190205	Designed for 12 × 18 in Benchmark SS and Benchmark HE scale	25 × 14 × 41.89 to 51.89 in (22.78 to 32.78 in*)	70 lb	$1,755.00
190206	Designed for 18 × 18 in Benchmark SS and Benchmark HE scale	25 × 20 × 41.89 to 51.89 in (22.78 to 32.78 in*)	83 lb	$1,805.00
190207	Designed for 18 × 24 in Benchmark SS and Benchmark HE scale	31 × 20 × 41.89 to 51.89 in (22.78 to 32.78 in*)	93 lb	$1,855.00
190209	Designed for 24 × 24 in Benchmark SS and Benchmark HE scale	31 × 26 × 41.89 to 51.89 in (22.78 to 32.78 in*)	101 lb	$1,905.00

**Height of cart without indicator stand*

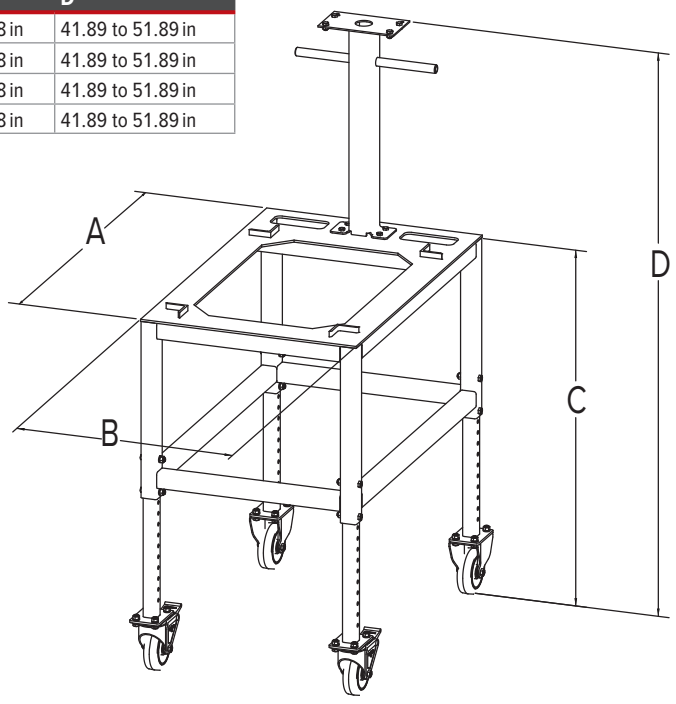
Wheels on standard carts are not conductive. If the end user plans to use the cart with an IS indicator, they will need a custom cart quoted with conductive wheels.

Cart not compatible with HE-X. See MSC-40.

Dimensions

	A	B	C	D
Designed for 12 × 18 in scale	25.00 in	14.00 in	22.78 to 32.78 in	41.89 to 51.89 in
Designed for 18 × 18 in scale	25.00 in	20.00 in	22.78 to 32.78 in	41.89 to 51.89 in
Designed for 18 × 24 in scale	31.00 in	20.00 in	22.78 to 32.78 in	41.89 to 51.89 in
Designed for 24 × 24 in scale	31.00 in	26.00 in	22.78 to 32.78 in	41.89 to 51.89 in

Note: 1 in = 25.4 mm



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BenchMark® MSC-20

Mobile Scale Cart



Standard Features

- Two swivel, locking casters and two rigid casters
- Designed to easily transport counting scale and secondary scale

Specifications

Capacity:
Lower base frame: 1,000 lb (500 kg) maximum
Upper base frame: 50 lb (25 kg) maximum

Warranty:
One-year limited

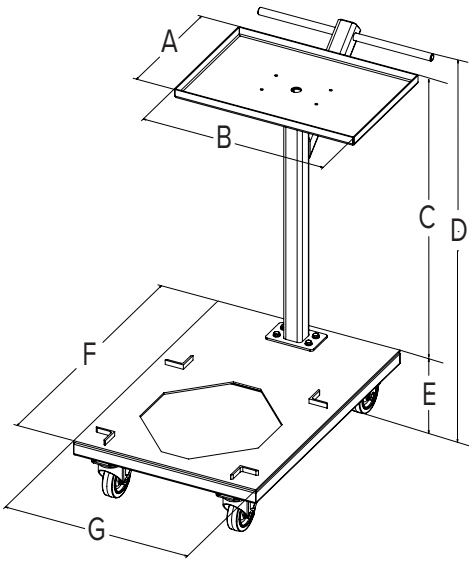
Part Number/Price

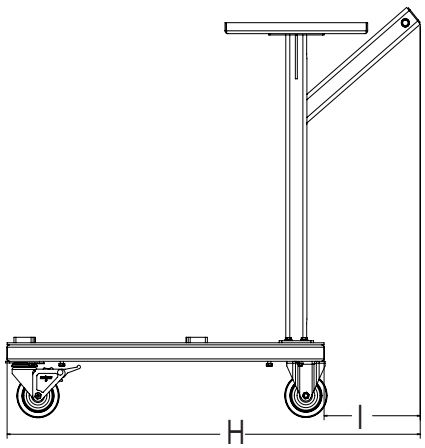
Part #	Description	Est. Weight	Price
Mild Steel			
197502	Designed for 12 × 18 in Benchmark MS scale	85 lb	$1,495.00
197503	Designed for 18 × 18 in Benchmark MS scale	85 lb	$1,520.00
197504	Designed for 18 × 24 in Benchmark MS scale	88 lb	$1,545.00
197505	Designed for 24 × 24 in Benchmark MS scale	96 lb	$1,570.00
Stainless Steel			
197506	Designed for 12 × 18 in Benchmark SS and Benchmark HE scale	90 lb	$2,125.00
197507	Designed for 18 × 18 in Benchmark SS and Benchmark HE scale	90 lb	$2,145.00
197508	Designed for 18 × 24 in Benchmark SS and Benchmark HE scale	93 lb	$2,170.00
197509	Designed for 24 × 24 in Benchmark SS and Benchmark HE scale	101 lb	$2,200.00

Dimensions

	A	B	C	D	E	F	G	H	I
Designed for 12 × 18 in scale	19.50 in	13.25 in	29.18 in	36.00 in	6.81 in	30.00 in	20.00 in	39.00 in	9.00 in
Designed for 18 × 18 in scale	19.50 in	13.25 in	29.18 in	36.00 in	6.81 in	30.00 in	20.00 in	39.00 in	9.00 in
Designed for 18 × 24 in scale	19.50 in	13.25 in	29.18 in	36.00 in	6.81 in	35.00 in	20.00 in	44.00 in	9.00 in
Designed for 24 × 24 in scale	19.50 in	13.25 in	29.18 in	36.00 in	6.81 in	35.00 in	26.00 in	44.00 in	9.00 in

Note: 1 in = 25.4 mm





BenchMark® MSC-30

Mobile Scale Cart



Standard Features

- Two swivel, locking casters and two rigid casters
- Indicator stand for mounting CW-90/90X, 680/682 Synergy, 380/380X Synergy

Specifications

Capacity:
1,000 lb (500 kg) maximum

Warranty:
One-year limited

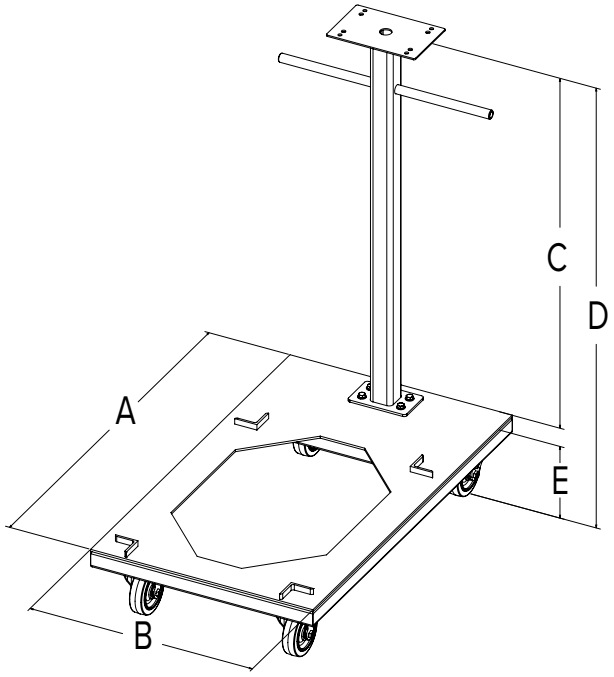
Part Number/Price

Part #	Description	Est. Weight	Price
Mild Steel			
197510	Designed for 12 × 18 Benchmark MS scale	67 lb	$1,495.00
197511	Designed for 18 × 18 Benchmark MS scale	67 lb	$1,520.00
197512	Designed for 18 × 24 Benchmark MS scale	70 lb	$1,545.00
197513	Designed for 24 × 24 Benchmark MS scale	78 lb	$1,570.00
Stainless Steel			
197514	Designed for 12 × 18 Benchmark SS and Benchmark HE scale	72 lb	$2,125.00
197515	Designed for 18 × 18 Benchmark SS and Benchmark HE scale	72 lb	$2,145.00
197516	Designed for 18 × 24 Benchmark SS and Benchmark HE scale	75 lb	$2,170.00
197517	Designed for 24 × 24 Benchmark SS and Benchmark HE scale	83 lb	$2,200.00

Dimensions

	A	B	C	D	E
Designed for 12 × 18 scale	30.00 in	20.00 in	34.25 in	41.00 in	6.81 in
Designed for 18 × 18 scale	30.00 in	20.00 in	34.25 in	41.00 in	6.81 in
Designed for 18 × 24 scale	35.00 in	20.00 in	34.25 in	41.00 in	6.81 in
Designed for 24 × 24 scale	35.00 in	26.00 in	34.25 in	41.00 in	6.81 in

Note: 1 in = 25.4 mm



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BenchMark® MSC-40

Mobile Scale Cart



Standard Features

- Two swivel, locking casters and two rigid casters
- Rugged washdown design meets Sanitary Design Principles

Specifications

Capacity:
1,000 lb (500 kg) maximum

Warranty:
One-year limited

Part Number/Price

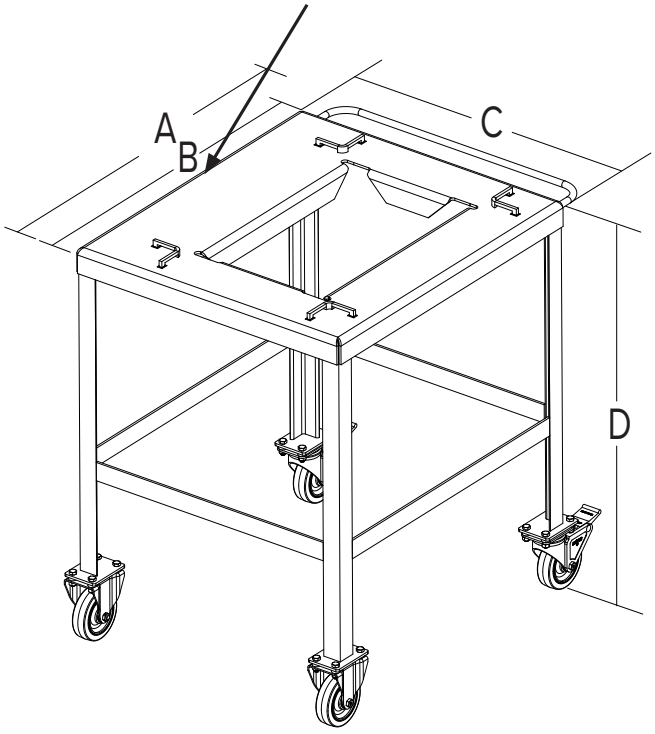
Part #	Description	Est. Weight	Price
Stainless Steel			
197518	Designed for 12 × 18 in Benchmark HE-X scale	62 lb	$1,975.00
197519	Designed for 18 × 18 in Benchmark HE-X scale	62 lb	$2,085.00
197520	Designed for 18 × 24 in Benchmark HE-X scale	69 lb	$2,195.00
197521	Designed for 24 × 24 in Benchmark HE-X scale	79 lb	$2,305.00

Dimensions

	A	B	C	D
Designed for 12 × 18 in scale	24.75 in	21.00 in	17.88 in	32.00 in
Designed for 18 × 18 in scale	24.75 in	21.00 in	24.00 in	32.00 in
Designed for 18 × 24 in scale	30.75 in	27.00 in	24.00 in	32.00 in
Designed for 24 × 24 in scale	30.75 in	27.00 in	30.00 in	32.00 in

Note: 1 in = 25.4 mm

Note: This side of cart is larger to accommodate BenchMark HE-X with indicator column



Bench Scale Ball Transfer and Roller Conveyor

1. Rice Lake Weighing Systems model number or part number of bench scale _____
2. Dimensions of scale: _____ in L × _____ in W
3. Capacity of scale: _____ lb
4. Dimensions of the smallest box/container to be used with the scale: _____ in L × _____ in W

Ball Transfer

5. Construction of ball transfer
   - ☐ Steel ball, steel housing zinc finish
   - ☐ Stainless steel ball, steel housing zinc finish
   - ☐ Stainless steel ball, stainless steel housing
6. Center-to-center ball dimension, if known:



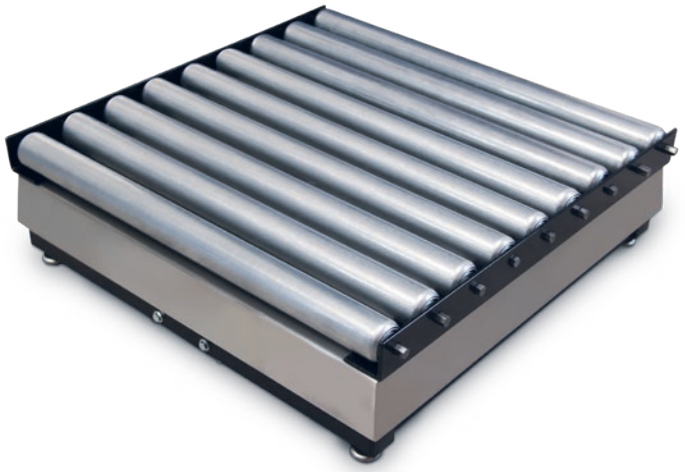
Ball Transfer with Shroud

5. Construction of ball transfer
   - ☐ Steel ball, steel housing zinc finish
   - ☐ Stainless steel ball, stainless steel housing
6. Center-to-center ball dimension, if known:



Roller Conveyor

8. Roller diameter, if known:
9. Center-to-center dimension, if known:
10. Construction of rollers
    - ☐ Plain steel
    - ☐ Galvanized steel
    - ☐ Aluminum
    - ☐ Stainless steel
7. Direction of roller conveyor, if platform is rectangular shaped (i.e., 18 × 24 in scale, please tell us if the rollers should be 18 in or 24 in long)



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Part Number/Price

Part #	Description	Price
112044	12 in column for IQ plus® 210, CW-90, CW-90X, 480/482 Legend Series, 380/380X Synergy Series, 680/682 Synergy Series	$145.00
112045	18 in column for IQ plus® 210, CW-90, CW-90X, 480/482 Legend Series, 380/380X Synergy Series, 680/682 Synergy Series	$195.00
196363	12 in column for 882IS/882IS Plus with battery	$225.00
196364	18 in column for 882IS/882IS Plus with battery	$275.00
197482	12 in column for 882IS/882IS Plus with power supply (Note: Power supply does not mount to column)	$165.00
197484	18 in column for 882IS/882IS Plus with power supply (Note: Power supply does not mount to column)	$215.00
64576	Attachment bracket for IQ plus® 210, CW-90, CW-90X, 480/482 Legend Series, 380/380X Synergy Series, 680/682 Synergy Series	$100.00
216970	12 in column for 381 Synergy Indicator	$145.00
216971	18 in column for 381 Synergy Indicator	$195.00

Available for the BenchMark SL, BenchMark SL/HE, BenchMark Mild Steel, BenchMark Stainless Steel, BenchMark HE, BenchMark HE-X, CW-80B, CW-90B and CW90-XB



CW-90B with 380 indicator and 12 in column



Base with 882IS/882IS Plus indicator with battery and 12 in column



Attachment bracket with 680 Indicator



Base with 381 Synergy indicator and 12 in column

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OIML Precision

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MASS REFERENCE STANDARDS / METRIC SINGLE WEIGHT WITH CASE (KITS)

Range: 20 kg – 1 mg

Class 0

Cylindrical

Statement of Accuracy is not available.
Class 0 enclosed in case per requirements.

Nominal Value	Kit Part #	Price	Certificate Accredited
20 kg	**45856**	$4,675.00	Included
10 kg	**45857**	$3,075.00	Included
5 kg	**45858**	$2,210.00	Included
3 kg	**45859**	$1,940.00	Included
2 kg	**45860**	$1,600.00	Included
1 kg	**45861**	$1,180.00	Included
500 g	**45862**	$720.00	Included
300 g	**45863**	$680.00	Included
200 g	**45864**	$630.00	Included
100 g	**45865**	$525.00	Included
50 g	**45866**	$495.00	Included
30 g	**45867**	$480.00	Included
20 g	**45868**	$480.00	Included
10 g	**45869**	$480.00	Included
5 g	**45870**	$415.00	Included
3 g	**45871**	$415.00	Included
2 g	**45872**	$415.00	Included
1 g	**45873**	$415.00	Included



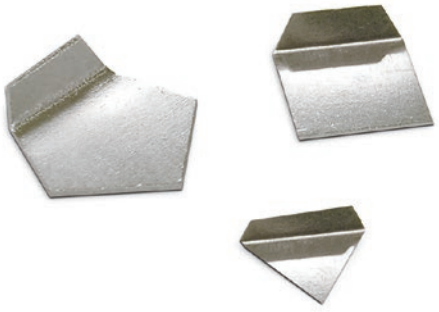
Kits Include a Single Weight with Case and Glove

Class 0

Leaf (Milligram)

Statement of Accuracy is not available.
Class 0 enclosed in vial per requirements.

Nominal Value	Kit Part #	Price	Certificate Accredited
500 mg	**45874**	$325.00	Included
300 mg	**45875**	$325.00	Included
200 mg	**45876**	$325.00	Included
100 mg	**45877**	$325.00	Included
50 mg	**45878**	$325.00	Included
30 mg	**45879**	$325.00	Included
20 mg	**45880**	$325.00	Included
10 mg	**45881**	$325.00	Included
5 mg	**45882**	$325.00	Included
3 mg	**45883**	$325.00	Included
2 mg	**45884**	$325.00	Included
1 mg	**45885**	$325.00	Included



Replacement Cases

Main Cases		
Class 0		
Nominal Value	**Part #**	**Price**
25 kg - 1 mg	**Consult**	Consult

Accessories

Description	Part #	Price
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Weight glove, white cotton	**11714**	$7.25
Leaf weight cover	**11755**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar with larger handle	**11712**	$77.00
Weight forceps	**50035**	$45.50
Tong assembly	**50000**	$78.00

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Range: 20 kg – 1 mg

Class 0

Cylindrical

Statement of Accuracy is not available.
Class 0 enclosed in case per requirements.

Nominal Value	Part #	Price	Certificate Accredited
20 kg	**46097**	$4,600.00	Included
10 kg	**46096**	$3,000.00	Included
5 kg	**46095**	$2,140.00	Included
3 kg	**46094**	$1,920.00	Included
2 kg	**46093**	$1,570.00	Included
1 kg	**46092**	$1,160.00	Included
500 g	**46091**	$695.00	Included
300 g	**46090**	$660.00	Included
200 g	**46089**	$610.00	Included
100 g	**46088**	$510.00	Included
50 g	**46087**	$460.00	Included
30 g	**46086**	$460.00	Included
20 g	**46085**	$460.00	Included
10 g	**46084**	$460.00	Included
5 g	**46083**	$395.00	Included
3 g	**46082**	$395.00	Included
2 g	**46081**	$395.00	Included
1 g	**46080**	$395.00	Included



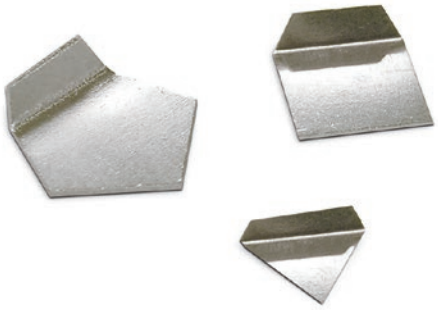
Cylindrical Weight

Class 0

Leaf (Milligram)

Statement of Accuracy is not available, and weight requires a case for shipping.
For special kits, single weights must ship in a case.
Single leaf weights must ship in a vial.

Nominal Value	Part #	Price	Certificate Accredited
500 mg	**46079**	$315.00	Included
300 mg	**46078**	$315.00	Included
200 mg	**46077**	$315.00	Included
100 mg	**46076**	$315.00	Included
50 mg	**46075**	$315.00	Included
30 mg	**46074**	$315.00	Included
20 mg	**46073**	$315.00	Included
10 mg	**46072**	$315.00	Included
5 mg	**46071**	$315.00	Included
3 mg	**46070**	$315.00	Included
2 mg	**46069**	$315.00	Included
1 mg	**46068**	$315.00	Included



Replacement Cases

Main Cases		
Class 0		
Nominal Value	**Part #**	**Price**
25 kg - 1 mg	**Consult**	Consult

Accessories

Description	Part #	Price
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Weight glove, white cotton	**11714**	$7.25
Leaf weight cover	**11755**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar with larger handle	**11712**	$77.00
Weight forceps	**50035**	$45.50
Tong assembly	**50000**	$78.00

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MASS REFERENCE STANDARDS / METRIC SINGLE WEIGHT WITH CASE (KITS)

Range: 25 kg – 1 g

Class 1

Class 1 enclosed in vial/case per requirements.

Nominal Value	Kit Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
25 kg	**Consult**	Consult	Consult	Consult
20 kg	**82590**	$4,175.00	$152.25	$84.00
10 kg	**82591**	$2,370.00	$152.25	$84.00
5 kg	**82592**	$1,360.00	$152.25	$84.00
3 kg	**82593**	$1,090.00	$152.25	$84.00
2 kg	**82594**	$880.00	$152.25	$84.00
1 kg	**82595**	$615.00	$131.25	$63.00
500 g	**82596**	$265.00	$131.25	$63.00
300 g	**82597**	$205.00	$131.25	$63.00
200 g	**82598**	$195.00	$131.25	$63.00
100 g	**82599**	$140.00	$57.75	$47.25
50 g	**82600**	$135.00	$57.75	$47.25
30 g	**82601**	$130.00	$57.75	$47.25
20 g	**82602**	$125.00	$57.75	$47.25
10 g	**82603**	$125.00	$57.75	$47.25
5 g	**82604**	$125.00	$57.75	$47.25
3 g	**82605**	$105.00	$57.75	$47.25
2 g	**82606**	$105.00	$57.75	$47.25
1 g	**82607**	$90.00	$57.75	$47.25

Class 3

Class 1 enclosed in vial/case per requirements.

Nominal Value	Kit Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
25 kg	**Consult**	Consult	Consult	Consult
20 kg	**82674**	$2,800.00	$152.25	$84.00
10 kg	**82675**	$2,080.00	$152.25	$84.00
5 kg	**82676**	$1,320.00	$152.25	$84.00
3 kg	**82677**	$1,010.00	$152.25	$84.00
2 kg	**82678**	$795.00	$152.25	$84.00
1 kg	**82679**	$520.00	$131.25	$63.00
500 g	**82680**	$250.00	$131.25	$63.00
300 g	**82681**	$185.00	$131.25	$63.00
200 g	**82682**	$175.00	$131.25	$63.00
100 g	**82683**	$135.00	$57.75	$47.25
50 g	**82684**	$125.00	$57.75	$47.25
30 g	**82685**	$120.00	$57.75	$47.25
20 g	**82686**	$105.00	$57.75	$47.25
10 g	**82687**	$105.00	$57.75	$47.25
5 g	**82688**	$77.00	$57.75	$47.25
3 g	**82689**	$77.00	$57.75	$47.25
2 g	**82690**	$77.00	$57.75	$47.25
1 g	**82691**	$77.00	$57.75	$47.25

Class 2

Class 1 enclosed in vial/case per requirements.

Nominal Value	Kit Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
25 kg	**Consult**	Consult	Consult	Consult
20 kg	**82632**	$2,825.00	$152.25	$84.00
10 kg	**82633**	$2,270.00	$152.25	$84.00
5 kg	**82634**	$1,320.00	$152.25	$84.00
3 kg	**82635**	$1,040.00	$152.25	$84.00
2 kg	**82636**	$810.00	$152.25	$84.00
1 kg	**82637**	$535.00	$131.25	$63.00
500 g	**82638**	$265.00	$131.25	$63.00
300 g	**82639**	$195.00	$131.25	$63.00
200 g	**82640**	$185.00	$131.25	$63.00
100 g	**82641**	$140.00	$57.75	$47.25
50 g	**82642**	$130.00	$57.75	$47.25
30 g	**82643**	$120.00	$57.75	$47.25
20 g	**82644**	$105.00	$57.75	$47.25
10 g	**82645**	$105.00	$57.75	$47.25
5 g	**82646**	$90.00	$57.75	$47.25
3 g	**82647**	$90.00	$57.75	$47.25
2 g	**82648**	$90.00	$57.75	$47.25
1 g	**82649**	$90.00	$57.75	$47.25



Kits Include a Single Weight with Case and Glove

Replacement Cases

Main Cases		
Class 1, 2 and 3		
Nominal Value	**Part #**	**Price**
25 kg	**Consult**	Consult
20 kg	**80703**	$265.00
10 kg	**80704**	$265.00
5 kg	**80705**	$195.00
3 kg	**190274**	$40.50
2 kg	**190271**	$40.50
1 kg	**190264**	$40.50
500 g	**189715**	$40.50
300 g	**196467**	$39.50
200 g	**189637**	$40.50

Main Cases		
Class 1, 2 and 3		
Nominal Value	**Part #**	**Price**
100 g	**189570**	$44.50
50 g	**189509**	$44.50
30 g	**189486**	$44.50
20 g	**189484**	$44.50
10 g	**189461**	$44.50
5 g	**189349**	$44.50
3 g	**194033**	$42.00
2 g	**189237**	$44.50
1 g	**198502**	$42.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Weight glove, white cotton	**11714**	$7.25
Leaf weight cover	**11755**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar with larger handle	**11712**	$77.00

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Range: 25 kg – 1 g

Class 4			Optional Certificate
Nominal Value	Kit Part #	Price	Accredited
25 kg	**Consult**	Consult	Consult
20 kg	**82716**	$2,575.00	$78.75
10 kg	**82717**	$1,870.00	$78.75
5 kg	**82718**	$1,300.00	$78.75
3 kg	**82719**	$935.00	$78.75
2 kg	**82720**	$765.00	$78.75
1 kg	**82721**	$505.00	$57.75
500 g	**82722**	$245.00	$57.75
300 g	**82723**	$175.00	$57.75
200 g	**82724**	$150.00	$57.75
100 g	**82725**	$105.00	$42.00
50 g	**82726**	$105.00	$42.00
30 g	**82727**	$90.00	$42.00
20 g	**82728**	$90.00	$42.00
10 g	**82729**	$83.00	$42.00
5 g	**82730**	$66.00	$42.00
3 g	**82731**	$66.00	$42.00
2 g	**82732**	$66.00	$42.00
1 g	**82733**	$66.00	$42.00



Kits Include a Single Weight with Case and Glove

Replacement Cases

Main Cases		
Class 4		
Nominal Value	Part #	Price
25 kg	**Consult**	Consult
20 kg	**80703**	$265.00
10 kg	**80704**	$265.00
5 kg	**80705**	$195.00
3 kg	**190274**	$40.50
2 kg	**190271**	$40.50
1 kg	**190264**	$40.50
500 g	**189715**	$40.50
300 g	**196467**	$39.50
200 g	**189637**	$40.50
100 g	**189570**	$44.50

Main Cases		
Class 4		
Nominal Value	Part #	Price
50 g	**189509**	$44.50
30 g	**189486**	$44.50
20 g	**189484**	$44.50
10 g	**189461**	$44.50
5 g	**189349**	$44.50
3 g	**194033**	$42.00
2 g	**189237**	$44.50
1 g	**198502**	$42.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Weight glove, white cotton	**11714**	$7.25
Leaf weight cover	**11755**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar with larger handle	**11712**	$77.00

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Range: 25 kg – 1 g

Class 1

Nominal Value	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
25 kg	**11876**	$4,925.00	$152.25	$84.00
20 kg	**11875**	$4,025.00	$152.25	$84.00
10 kg	**11874**	$2,240.00	$152.25	$84.00
5 kg	**11872**	$1,230.00	$152.25	$84.00
3 kg	**11871**	$1,050.00	$152.25	$84.00
2 kg	**11870**	$830.00	$152.25	$84.00
1 kg	**11869**	$580.00	$131.25	$63.00
500 g	**11867**	$245.00	$131.25	$63.00
300 g	**11866**	$185.00	$131.25	$63.00
200 g	**11865**	$170.00	$131.25	$63.00
100 g	**11864**	$130.00	$57.75	$47.25
50 g	**11862**	$125.00	$57.75	$47.25
30 g	**11861**	$115.00	$57.75	$47.25
20 g	**11860**	$115.00	$57.75	$47.25
10 g	**11859**	$105.00	$57.75	$47.25
5 g	**11857**	$98.00	$57.75	$47.25
3 g	**11856**	$83.00	$57.75	$47.25
2 g	**11855**	$83.00	$57.75	$47.25
1 g	**11854**	$77.00	$57.75	$47.25

Class 2

Nominal Value	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
25 kg	**12131**	$4,600.00	$152.25	$84.00
20 kg	**12130**	$2,675.00	$152.25	$84.00
10 kg	**12129**	$2,080.00	$152.25	$84.00
5 kg	**12127**	$1,220.00	$152.25	$84.00
3 kg	**12126**	$1,010.00	$152.25	$84.00
2 kg	**12125**	$785.00	$152.25	$84.00
1 kg	**12124**	$520.00	$131.25	$63.00
500 g	**12122**	$240.00	$131.25	$63.00
300 g	**12121**	$175.00	$131.25	$63.00
200 g	**12120**	$165.00	$131.25	$63.00
100 g	**12119**	$125.00	$57.75	$47.25
50 g	**12117**	$98.00	$57.75	$47.25
30 g	**12116**	$96.00	$57.75	$47.25
20 g	**12115**	$96.00	$57.75	$47.25
10 g	**12114**	$96.00	$57.75	$47.25
5 g	**12112**	$72.00	$57.75	$47.25
3 g	**12111**	$72.00	$57.75	$47.25
2 g	**12110**	$72.00	$57.75	$47.25
1 g	**12109**	$72.00	$57.75	$47.25

Class 3

Nominal Value	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
25 kg	**12272**	$4,525.00	$152.25	$84.00
20 kg	**12271**	$2,625.00	$152.25	$84.00
10 kg	**12270**	$1,940.00	$152.25	$84.00
5 kg	**12269**	$1,220.00	$152.25	$84.00
3 kg	**12268**	$975.00	$152.25	$84.00
2 kg	**12267**	$770.00	$152.25	$84.00
1 kg	**12266**	$505.00	$131.25	$63.00
500 g	**12265**	$235.00	$131.25	$63.00
300 g	**12264**	$165.00	$131.25	$63.00
200 g	**12263**	$160.00	$131.25	$63.00
100 g	**12262**	$120.00	$57.75	$47.25
50 g	**12261**	$90.00	$57.75	$47.25
30 g	**12260**	$90.00	$57.75	$47.25
20 g	**12259**	$90.00	$57.75	$47.25
10 g	**12258**	$90.00	$57.75	$47.25
5 g	**12257**	$68.00	$57.75	$47.25
3 g	**12256**	$68.00	$57.75	$47.25
2 g	**12255**	$68.00	$57.75	$47.25
1 g	**12254**	$68.00	$57.75	$47.25

Replacement Cases

Main Cases Class 1, 2 and 3 Nominal Value	Part #	Price
25 kg	**Consult**	Consult
20 kg	**80703**	$265.00
10 kg	**80704**	$265.00
5 kg	**80705**	$195.00
3 kg	**190274**	$40.50
2 kg	**190271**	$40.50
1 kg	**190264**	$40.50
500 g	**189715**	$40.50
300 g	**196467**	$39.50
200 g	**189637**	$40.50

Main Cases Class 1, 2 and 3 Nominal Value	Part #	Price
100 g	**189570**	$44.50
50 g	**189509**	$44.50
30 g	**189486**	$44.50
20 g	**189484**	$44.50
10 g	**189461**	$44.50
5 g	**189349**	$44.50
3 g	**194033**	$42.00
2 g	**189237**	$44.50
1 g	**198502**	$42.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Weight glove, white cotton	**11714**	$7.25
Leaf weight cover	**11755**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar with larger handle	**11712**	$77.00

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Range: 25 kg – 1 g

Class 4

For special kits, single weights must ship in a case.

Nominal Value	Part #	Price	Optional Certificate Accredited
25 kg	**12375**	$4,450.00	$78.75
20 kg	**12374**	$2,450.00	$78.75
10 kg	**12373**	$1,730.00	$78.75
5 kg	**12372**	$1,160.00	$78.75
3 kg	**12371**	$905.00	$78.75
2 kg	**12370**	$735.00	$78.75
1 kg	**12369**	$480.00	$57.75
500 g	**12368**	$230.00	$57.75
300 g	**12367**	$160.00	$57.75
200 g	**12366**	$140.00	$57.75
100 g	**12365**	$98.00	$42.00
50 g	**12364**	$79.00	$42.00
30 g	**12363**	$72.00	$42.00
20 g	**12362**	$72.00	$42.00
10 g	**12361**	$72.00	$42.00
5 g	**12360**	$51.00	$42.00
3 g	**12359**	$51.00	$42.00
2 g	**12358**	$51.00	$42.00
1 g	**12357**	$51.00	$42.00



Replacement Cases

Main Cases Class 4 Nominal Value	Part #	Price
25 kg	**Consult**	Consult
20 kg	**80703**	$265.00
10 kg	**80704**	$265.00
5 kg	**80705**	$195.00
3 kg	**190274**	$40.50
2 kg	**190271**	$40.50
1 kg	**190264**	$40.50
500 g	**189715**	$40.50
300 g	**196467**	$39.50
200 g	**189637**	$40.50

Main Cases Class 4 Nominal Value	Part #	Price
100 g	**189570**	$44.50
50 g	**189509**	$44.50
30 g	**189486**	$44.50
20 g	**189484**	$44.50
10 g	**189461**	$44.50
5 g	**189349**	$44.50
3 g	**194033**	$42.00
2 g	**189237**	$44.50
1 g	**198502**	$42.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Weight glove, white cotton	**11714**	$7.25
Leaf weight cover	**11755**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar with larger handle	**11712**	$77.00

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MASS REFERENCE STANDARDS / METRIC SINGLE WEIGHT WITH CASE (KITS)

Range: 500 mg – 0.5 mg

Class 1

Enclosed in vial/case per requirements.

Nominal Value	Kit Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
500 mg	**80458**	$77.00	$57.75	$47.25
300 mg	**80459**	$77.00	$57.75	$47.25
200 mg	**80460**	$77.00	$57.75	$47.25
100 mg	**80461**	$77.00	$57.75	$47.25
50 mg	**80462**	$77.00	$57.75	$47.25
30 mg	**80463**	$77.00	$57.75	$47.25
20 mg	**80464**	$77.00	$57.75	$47.25
10 mg	**80465**	$77.00	$57.75	$47.25
5 mg	**80466**	$77.00	$57.75	$47.25
3 mg	**80467**	$77.00	$57.75	$47.25
2 mg	**80468**	$77.00	$57.75	$47.25
1 mg	**80469**	$77.00	$57.75	$47.25
0.5 mg*	**36076**	$177.00	$57.75	$47.25

Class 2

Enclosed in vial/case per requirements.

Nominal Value	Kit Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
500 mg	**80470**	$51.00	$57.75	$47.25
300 mg	**80471**	$51.00	$57.75	$47.25
200 mg	**80472**	$51.00	$57.75	$47.25
100 mg	**80473**	$51.00	$57.75	$47.25
50 mg	**80474**	$51.00	$57.75	$47.25
30 mg	**80475**	$51.00	$57.75	$47.25
20 mg	**80476**	$51.00	$57.75	$47.25
10 mg	**80477**	$51.00	$57.75	$47.25
5 mg	**80478**	$51.00	$57.75	$47.25
3 mg	**80479**	$51.00	$57.75	$47.25
2 mg	**80480**	$51.00	$57.75	$47.25
1 mg	**80481**	$51.00	$57.75	$47.25
0.5 mg*	**36077**	$151.00	$57.75	$47.25

**Wire weight*

Class 3

Enclosed in vial/case per requirements.

Nominal Value	Kit Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
500 mg	**80482**	$45.50	$57.75	$47.25
300 mg	**80483**	$45.50	$57.75	$47.25
200 mg	**80484**	$45.50	$57.75	$47.25
100 mg	**80485**	$45.50	$57.75	$47.25
50 mg	**80486**	$45.50	$57.75	$47.25
30 mg	**80487**	$45.50	$57.75	$47.25
20 mg	**80488**	$45.50	$57.75	$47.25
10 mg	**80489**	$45.50	$57.75	$47.25
5 mg	**80490**	$45.50	$57.75	$47.25
3 mg	**80491**	$45.50	$57.75	$47.25
2 mg	**80492**	$45.50	$57.75	$47.25
1 mg	**80493**	$45.50	$57.75	$47.25
0.5 mg*	**36078**	$145.50	$57.75	$47.25

Class 4

Single leaf weights must ship in a vial.

Nominal Value	Kit Part #	Price	Optional Certificate
			Accredited
500 mg	**80494**	$39.50	$42.00
300 mg	**80495**	$39.50	$42.00
200 mg	**80496**	$39.50	$42.00
100 mg	**80497**	$39.50	$42.00
50 mg	**80498**	$39.50	$42.00
30 mg	**80499**	$39.50	$42.00
20 mg	**80500**	$39.50	$42.00
10 mg	**80501**	$39.50	$42.00
5 mg	**80502**	$39.50	$42.00
3 mg	**80503**	$39.50	$42.00
2 mg	**80504**	$39.50	$42.00
1 mg	**80505**	$39.50	$42.00
0.5 mg*	**36079**	$139.50	$57.75



Kits Include a Single Weight with Vial

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Weight glove, white cotton	**11714**	$7.25
Leaf weight cover	**11755**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar with larger handle	**11712**	$77.00
Replacement vial 500 mg to 0.5 mg	**50038**	$5.25

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Range: 500 mg – 1 mg

Class 1

Single leaf weights must ship in a vial.

Nominal Value	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
500 mg	**11852**	$72.00	$57.75	$47.25
300 mg	**11851**	$72.00	$57.75	$47.25
200 mg	**11850**	$72.00	$57.75	$47.25
100 mg	**11849**	$72.00	$57.75	$47.25
50 mg	**11847**	$72.00	$57.75	$47.25
30 mg	**11846**	$72.00	$57.75	$47.25
20 mg	**11845**	$72.00	$57.75	$47.25
10 mg	**11844**	$72.00	$57.75	$47.25
5 mg	**11842**	$72.00	$57.75	$47.25
3 mg	**11841**	$72.00	$57.75	$47.25
2 mg	**11840**	$72.00	$57.75	$47.25
1 mg	**11839**	$72.00	$57.75	$47.25

Class 2

Single leaf weights must ship in a vial.

Nominal Value	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
500 mg	**12107**	$45.50	$57.75	$47.25
300 mg	**12106**	$45.50	$57.75	$47.25
200 mg	**12105**	$45.50	$57.75	$47.25
100 mg	**12104**	$45.50	$57.75	$47.25
50 mg	**12102**	$45.50	$57.75	$47.25
30 mg	**12101**	$45.50	$57.75	$47.25
20 mg	**12100**	$45.50	$57.75	$47.25
10 mg	**12099**	$45.50	$57.75	$47.25
5 mg	**12097**	$45.50	$57.75	$47.25
3 mg	**12096**	$45.50	$57.75	$47.25
2 mg	**12095**	$45.50	$57.75	$47.25
1 mg	**12094**	$45.50	$57.75	$47.25

Class 3

Single leaf weights must ship in a vial.

Nominal Value	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
500 mg	**12253**	$42.00	$57.75	$47.25
300 mg	**12252**	$42.00	$57.75	$47.25
200 mg	**12251**	$42.00	$57.75	$47.25
100 mg	**12250**	$42.00	$57.75	$47.25
50 mg	**12248**	$42.00	$57.75	$47.25
30 mg	**12247**	$42.00	$57.75	$47.25
20 mg	**12246**	$42.00	$57.75	$47.25
10 mg	**12245**	$42.00	$57.75	$47.25
5 mg	**12244**	$42.00	$57.75	$47.25
3 mg	**12243**	$42.00	$57.75	$47.25
2 mg	**12242**	$42.00	$57.75	$47.25
1 mg	**12241**	$42.00	$57.75	$47.25

Class 4

Single leaf weights must ship in a vial.

Nominal Value	Part #	Price	Optional Certificate
			Accredited
500 mg	**12356**	$39.50	$42.00
300 mg	**12355**	$39.50	$42.00
200 mg	**12354**	$39.50	$42.00
100 mg	**12353**	$39.50	$42.00
50 mg	**12352**	$39.50	$42.00
30 mg	**12351**	$39.50	$42.00
20 mg	**12350**	$39.50	$42.00
10 mg	**22198**	$39.50	$42.00
5 mg	**22197**	$39.50	$42.00
3 mg	**22196**	$39.50	$42.00
2 mg	**22195**	$39.50	$42.00
1 mg	**22194**	$39.50	$42.00



Leaf (Milligram) Weight

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Weight glove, white cotton	**11714**	$7.25
Leaf weight cover	**11755**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar with larger handle	**11712**	$77.00
Replacement vial 500 mg to 0.5 mg	**50038**	$5.25

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MASS REFERENCE STANDARDS / AVOIRDUPOIS SINGLE WEIGHT WITH CASE (KITS)

Range: 30 lb – 1/16 oz

Class 1			Optional Certificate	
Nominal Value	Kit Part #	Price	Accredited	Non-Accredited
30 lb	**82581**	$4,350.00	$136.50	$89.25
25 lb	**82580**	$3,000.00	$136.50	$89.25
20 lb	**82579**	$2,975.00	$136.50	$89.25
10 lb	**82578**	$1,750.00	$136.50	$89.25
5 lb	**82589**	$1,260.00	$136.50	$89.25
4 lb	**82588**	$1,070.00	$136.50	$89.25
3 lb	**82587**	$805.00	$136.50	$89.25
2 lb	**82586**	$705.00	$110.25	$73.50
1 lb	**82585**	$360.00	$110.25	$73.50
8 oz	**82584**	$295.00	$57.75	$47.25
0.5 lb	**82570**	$300.00	$57.75	$47.25
0.3 lb	**118809**	$230.00	$57.75	$47.25
0.2 lb	**82569**	$195.00	$57.75	$47.25
0.1 lb	**82568**	$145.00	$57.75	$47.25
0.05 lb	**82567**	$135.00	$57.75	$47.25
0.03 lb	**118805**	$130.00	$57.75	$47.25
0.02 lb	**82566**	$130.00	$57.75	$47.25
0.01 lb	**82565**	$130.00	$57.75	$47.25
0.005 lb	**82564**	$130.00	$57.75	$47.25
0.003 lb	**118801**	$130.00	$57.75	$47.25
4 oz	**82577**	$165.00	$57.75	$47.25
2 oz	**82576**	$145.00	$57.75	$47.25
1 oz	**82575**	$125.00	$57.75	$47.25
1/2 oz	**82574**	$120.00	$57.75	$47.25
1/4 oz	**82573**	$120.00	$57.75	$47.25
1/8 oz	**82572**	$120.00	$57.75	$47.25
1/16 oz	**82571**	$120.00	$57.75	$47.25

Class 2			Optional Certificate	
Nominal Value	Kit Part #	Price	Accredited	Non-Accredited
30 lb	**82625**	$4,250.00	$136.50	$89.25
25 lb	**82624**	$3,600.00	$136.50	$89.25
20 lb	**82623**	$2,900.00	$136.50	$89.25
10 lb	**82622**	$1,710.00	$136.50	$89.25
5 lb	**82631**	$1,210.00	$136.50	$89.25
4 lb	**82630**	$1,020.00	$136.50	$89.25
3 lb	**82629**	$735.00	$136.50	$89.25
2 lb	**82628**	$665.00	$110.25	$73.50
1 lb	**82627**	$340.00	$110.25	$73.50
8 oz	**82626**	$280.00	$52.50	$42.00
0.5 lb	**82614**	$280.00	$52.50	$47.25
0.3 lb	**118810**	$220.00	$52.50	$47.25
0.2 lb	**82613**	$195.00	$52.50	$47.25
0.1 lb	**82612**	$135.00	$52.50	$47.25
0.05 lb	**82611**	$130.00	$52.50	$47.25
0.03 lb	**118806**	$120.00	$57.75	$47.25
0.02 lb	**82610**	$125.00	$52.50	$47.25
0.01 lb	**82609**	$120.00	$52.50	$47.25
0.005 lb	**82608**	$120.00	$52.50	$47.25
0.003 lb	**118802**	$120.00	$57.75	$47.25
4 oz	**82621**	$165.00	$52.50	$47.25
2 oz	**82620**	$135.00	$52.50	$47.25
1 oz	**82619**	$125.00	$52.50	$47.25
1/2 oz	**82618**	$115.00	$52.50	$47.25
1/4 oz	**82617**	$115.00	$52.50	$47.25
1/8 oz	**82616**	$115.00	$52.50	$47.25
1/16 oz	**82615**	$115.00	$52.50	$47.25

Replacement Cases

Main Cases Class 1, 2 and 3 Screw Knob		
Nominal Value	Part #	Price
30 lb	**80743**	$265.00
25 lb	**80742**	$265.00
20 lb	**80741**	$265.00
10 lb	**80740**	$265.00
5 lb	**190272**	$40.50
4 lb	**190268**	$40.50
3 lb	**190265**	$40.50
2 lb	**190261**	$40.50
1 lb	**189713**	$40.50
8 oz	**189638**	$40.50
0.5 lb	**189638**	$40.50
0.3 lb	**189633**	$40.50
0.2 lb	**189569**	$44.50
0.1 lb	**189508**	$44.50

Main Cases Class 1, 2 and 3 Screw Knob		
Nominal Value	Part #	Price
0.05 lb	**189485**	$44.50
0.03 lb	**189478**	$44.50
0.02 lb	**189460**	$44.50
0.01 lb	**189349**	$44.50
0.005 lb	**189239**	$44.50
0.003 lb	**189234**	$44.50
4 oz	**189571**	$44.50
2 oz	**190126**	$40.50
1 oz	**189486**	$44.50
1/2 oz	**189478**	$44.50
1/4 oz	**189350**	$44.50
1/8 oz	**194034**	$42.00
1/16 oz	**189237**	$44.50

Main Cases Class 4 Screw Knob		
Nominal Value	Part #	Price
30 lb	**80743**	$265.00
25 lb	**80742**	$265.00
20 lb	**80741**	$265.00
10 lb	**80740**	$265.00
5 lb	**190272**	$40.50
4 lb	**190268**	$40.50
3 lb	**190265**	$40.50
2 lb	**190261**	$40.50
1 lb	**189713**	$40.50
8 oz	**189638**	$40.50
0.5 lb	**189638**	$40.50
0.3 lb	**189633**	$40.50
0.2 lb	**189569**	$44.50
0.1 lb	**189508**	$44.50

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MASS REFERENCE STANDARDS / AVOIRDUPOIS SINGLE WEIGHT WITH CASE (KITS)

Range: 30 lb – 1/16 oz

Class 3			Optional Certificate	
Nominal Value	Kit Part #	Price	Accredited	Non-Accredited
30 lb	**82667**	$4,075.00	$136.50	$89.25
25 lb	**82666**	$3,450.00	$136.50	$89.25
20 lb	**82665**	$2,750.00	$136.50	$89.25
10 lb	**82664**	$1,590.00	$136.50	$89.25
5 lb	**82673**	$1,180.00	$136.50	$89.25
4 lb	**82672**	$980.00	$136.50	$89.25
3 lb	**82671**	$710.00	$136.50	$89.25
2 lb	**82670**	$645.00	$110.25	$73.50
1 lb	**82669**	$325.00	$110.25	$73.50
8 oz	**82668**	$280.00	$57.75	$47.25
0.5 lb	**82656**	$280.00	$57.75	$47.25
0.3 lb	**118811**	$180.00	$57.75	$47.25
0.2 lb	**82655**	$150.00	$57.75	$47.25
0.1 lb	**82654**	$135.00	$57.75	$47.25
0.05 lb	**82653**	$125.00	$57.75	$47.25
0.03 lb	**118807**	$120.00	$57.75	$47.25
0.02 lb	**82652**	$120.00	$57.75	$47.25
0.01 lb	**82651**	$120.00	$57.75	$47.25
0.005 lb	**82650**	$115.00	$57.75	$47.25
0.003 lb	**118803**	$115.00	$57.75	$47.25
4 oz	**82663**	$160.00	$57.75	$47.25
2 oz	**82662**	$135.00	$57.75	$47.25
1 oz	**82661**	$115.00	$57.75	$47.25
1/2 oz	**82660**	$115.00	$57.75	$47.25
1/4 oz	**82659**	$115.00	$57.75	$47.25
1/8 oz	**82658**	$115.00	$57.75	$47.25
1/16 oz	**82657**	$115.00	$57.75	$47.25

Class 4			Optional Certificate
Nominal Value	Kit Part #	Price	Accredited
30 lb	**82709**	$4,025.00	$84.00
25 lb	**82708**	$3,425.00	$84.00
20 lb	**82707**	$2,725.00	$84.00
10 lb	**82706**	$1,580.00	$84.00
5 lb	**82715**	$1,170.00	$84.00
4 lb	**82714**	$890.00	$84.00
3 lb	**82713**	$685.00	$84.00
2 lb	**82712**	$620.00	$68.25
1 lb	**82711**	$295.00	$68.25
8 oz	**82710**	$270.00	$42.00
0.5 lb	**82698**	$280.00	$42.00
0.3 lb	**118812**	$195.00	$42.00
0.2 lb	**82697**	$145.00	$42.00
0.1 lb	**82696**	$125.00	$42.00
0.05 lb	**82695**	$120.00	$42.00
0.03 lb	**118808**	$98.00	$42.00
0.02 lb	**82694**	$120.00	$42.00
0.01 lb	**82693**	$120.00	$42.00
0.005 lb	**82692**	$120.00	$42.00
0.003 lb	**118804**	$120.00	$42.00
4 oz	**82705**	$145.00	$42.00
2 oz	**82704**	$135.00	$42.00
1 oz	**82703**	$125.00	$42.00
1/2 oz	**82702**	$120.00	$42.00
1/4 oz	**82701**	$120.00	$42.00
1/8 oz	**82700**	$120.00	$42.00
1/16 oz	**82699**	$120.00	$42.00



Kits Include a Single Weight with Case and Glove

Main Cases		
Class 4 Screw Knob		
Nominal Value	Part #	Price
0.05 lb	**189485**	$44.50
0.03 lb	**189478**	$44.50
0.02 lb	**189460**	$44.50
0.01 lb	**189349**	$44.50
0.005 lb	**189239**	$44.50
0.003 lb	**189234**	$44.50
4 oz	**189571**	$44.50
2 oz	**190126**	$40.50
1 oz	**189486**	$44.50
1/2 oz	**189478**	$44.50
1/4 oz	**189350**	$44.50
1/8 oz	**194034**	$42.00
1/16 oz	**189237**	$44.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Lifter bar	**11747**	$22.25
Capsule	**80420**	$5.25

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MASS REFERENCE STANDARDS / AVOIRDUPOIS SINGLE WEIGHT WITH CASE (KITS)

Range: 0.001 lb – 1/32 oz

Class 1

Enclosed in vial/case per requirements.

Nominal Value	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
0.001 lb	**80428**	$120.00	$57.75	$47.25
0.002 lb	**80439**	$120.00	$57.75	$47.25
1/32 oz	**80442**	$120.00	$57.75	$47.25

Class 2

Enclosed in vial/case per requirements.

Nominal Value	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
0.001 lb	**80443**	$120.00	$57.75	$47.25
0.002 lb	**80445**	$115.00	$57.75	$47.25
1/32 oz	**80446**	$115.00	$57.75	$47.25

Class 3

Enclosed in vial/case per requirements.

Nominal Value	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
0.001 lb	**80448**	$115.00	$57.75	$47.25
0.002 lb	**80449**	$115.00	$57.75	$47.25
1/32 oz	**80451**	$115.00	$57.75	$47.25



Kits Include a Single Weight with Vial

Replacement Cases

Main Case		
Class 1, 2 and 3 Leaf		
Nominal Value	**Part #**	**Price**
0.001 lb	**Consult**	Consult
0.002 lb	**Consult**	Consult
1/32 oz	**Consult**	Consult

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Vial	**50038**	$5.25
Lifter bar	**11747**	$22.25

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MASS REFERENCE STANDARDS / AVOIRDUPOIS SINGLE WEIGHTS

Range: 50 lb – 1/16 oz

Class 1			Optional Certificate	
Nominal Value	Part #	Price	Accredited	Non-Accredited
50 lb	**12056**	$5,675.00	$299.25	$89.25
30 lb	**12055**	$4,175.00	$136.50	$89.25
25 lb	**12054**	$3,525.00	$136.50	$89.25
20 lb	**12053**	$2,850.00	$136.50	$89.25
10 lb	**12052**	$1,610.00	$136.50	$89.25
5 lb	**12050**	$1,200.00	$136.50	$89.25
4 lb	**12049**	$1,010.00	$136.50	$89.25
3 lb	**12048**	$775.00	$136.50	$89.25
2 lb	**12047**	$670.00	$110.25	$73.50
1 lb	**12046**	$325.00	$110.25	$73.50
8 oz	**12044**	$295.00	$57.75	$47.25
0.5 lb	**12034**	$290.00	$57.75	$47.25
0.3 lb	**118518**	$230.00	$57.75	$47.25
0.2 lb	**12033**	$180.00	$57.75	$47.25
0.1 lb	**12032**	$135.00	$57.75	$47.25
0.05 lb	**12027**	$125.00	$57.75	$47.25
0.03 lb	**118514**	$120.00	$57.75	$47.25
0.02 lb	**12022**	$120.00	$57.75	$47.25
0.01 lb	**12020**	$120.00	$57.75	$47.25
0.005 lb	**12013**	$120.00	$57.75	$47.25
0.003 lb	**118510**	$120.00	$57.75	$47.25
4 oz	**12043**	$150.00	$57.75	$47.25
2 oz	**12042**	$135.00	$57.75	$47.25
1 oz	**12041**	$105.00	$57.75	$47.25
1/2 oz	**12040**	$120.00	$57.75	$47.25
1/4 oz	**12039**	$120.00	$57.75	$47.25
1/8 oz	**12038**	$120.00	$57.75	$47.25
1/16 oz	**12037**	$120.00	$57.75	$47.25

Class 2			Optional Certificate	
Nominal Value	Part #	Price	Accredited	Non-Accredited
50 lb	**12202**	$5,600.00	$299.25	$89.25
30 lb	**12201**	$4,075.00	$136.50	$89.25
25 lb	**12200**	$3,450.00	$136.50	$89.25
20 lb	**12199**	$2,775.00	$136.50	$89.25
10 lb	**12198**	$1,560.00	$136.50	$89.25
5 lb	**12196**	$1,160.00	$136.50	$89.25
4 lb	**12195**	$935.00	$136.50	$89.25
3 lb	**12194**	$695.00	$136.50	$89.25
2 lb	**12193**	$640.00	$110.25	$73.50
1 lb	**12192**	$325.00	$110.25	$73.50
8 oz	**12190**	$275.00	$57.75	$47.25
0.5 lb	**12180**	$275.00	$57.75	$47.25
0.3 lb	**118519**	$220.00	$57.75	$47.25
0.2 lb	**12179**	$180.00	$57.75	$47.25
0.1 lb	**12178**	$130.00	$57.75	$47.25
0.05 lb	**12173**	$125.00	$57.75	$47.25
0.03 lb	**118515**	$120.00	$57.75	$47.25
0.02 lb	**12168**	$120.00	$57.75	$47.25
0.01 lb	**12166**	$120.00	$57.75	$47.25
0.005 lb	**12159**	$120.00	$57.75	$47.25
0.003 lb	**118511**	$120.00	$57.75	$47.25
4 oz	**12189**	$150.00	$57.75	$47.25
2 oz	**12188**	$130.00	$57.75	$47.25
1 oz	**12187**	$105.00	$57.75	$47.25
1/2 oz	**12186**	$120.00	$57.75	$47.25
1/4 oz	**12185**	$120.00	$57.75	$47.25
1/8 oz	**12184**	$120.00	$57.75	$47.25
1/16 oz	**12183**	$120.00	$57.75	$47.25

Replacement Cases

Main Cases		
Class 1 and 2 Screw Knob		
Nominal Value	Part #	Price
50 lb	**Consult**	Consult
30 lb	**80743**	$265.00
25 lb	**80742**	$265.00
20 lb	**80741**	$265.00
10 lb	**80740**	$265.00
5 lb	**190272**	$40.50
4 lb	**190268**	$40.50
3 lb	**190265**	$40.50
2 lb	**190261**	$40.50
1 lb	**189713**	$40.50

Main Cases		
Class 1 and 2 Screw Knob		
Nominal Value	Part #	Price
8 oz	**189638**	$40.50
0.5 lb	**189638**	$40.50
0.3 lb	**189633**	$40.50
0.2 lb	**189569**	$44.50
0.1 lb	**189508**	$44.50
0.05 lb	**189485**	$44.50
0.03 lb	**189478**	$44.50
0.02 lb	**189460**	$44.50
0.01 lb	**189349**	$44.50
0.005 lb	**189239**	$44.50

Main Cases		
Class 1 and 2 Screw Knob		
Nominal Value	Part #	Price
0.003 lb	**189234**	$44.50
4 oz	**189571**	$44.50
2 oz	**190126**	$40.50
1 oz	**189486**	$44.50
1/2 oz	**189478**	$44.50
1/4 oz	**189350**	$44.50
1/8 oz	**194034**	$42.00
1/16 oz	**189237**	$44.50

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Range: 50 lb – 1/16 oz

Class 3			Optional Certificate	
Nominal Value	Part #	Price	Accredited	Non-Accredited
50 lb	**12335**	$5,525.00	$299.25	$89.25
30 lb	**12334**	$3,925.00	$136.50	$89.25
25 lb	**12333**	$3,325.00	$136.50	$89.25
20 lb	**12332**	$2,575.00	$136.50	$89.25
10 lb	**12331**	$1,490.00	$136.50	$89.25
5 lb	**12330**	$1,130.00	$136.50	$89.25
4 lb	**12329**	$925.00	$136.50	$89.25
3 lb	**12328**	$670.00	$136.50	$89.25
2 lb	**12327**	$610.00	$110.25	$73.50
1 lb	**12326**	$305.00	$110.25	$73.50
8 oz	**12325**	$265.00	$57.75	$47.25
0.5 lb	**12316**	$270.00	$57.75	$47.25
0.3 lb	**118520**	$180.00	$57.75	$47.25
0.2 lb	**12315**	$140.00	$57.75	$47.25
0.1 lb	**12314**	$125.00	$57.75	$47.25
0.05 lb	**12310**	$120.00	$57.75	$47.25
0.03 lb	**118516**	$120.00	$57.75	$47.25
0.02 lb	**22185**	$120.00	$57.75	$47.25
0.01 lb	**22183**	$120.00	$57.75	$47.25
0.005 lb	**12297**	$120.00	$57.75	$47.25
0.003 lb	**118512**	$120.00	$57.75	$47.25
4 oz	**12324**	$150.00	$57.75	$47.25
2 oz	**12323**	$130.00	$57.75	$47.25
1 oz	**12322**	$98.00	$57.75	$47.25
1/2 oz	**12321**	$120.00	$57.75	$47.25
1/4 oz	**12320**	$120.00	$57.75	$47.25
1/8 oz	**12319**	$120.00	$57.75	$47.25
1/16 oz	**12318**	$120.00	$57.75	$47.25

Class 4			Optional Certificate
Nominal Value	Part #	Price	Accredited
50 lb	**12438**	$5,450.00	$84.00
30 lb	**12437**	$3,900.00	$84.00
25 lb	**12436**	$3,275.00	$84.00
20 lb	**12435**	$2,550.00	$84.00
10 lb	**12434**	$1,430.00	$84.00
5 lb	**12433**	$1,100.00	$84.00
4 lb	**12432**	$855.00	$84.00
3 lb	**12431**	$650.00	$84.00
2 lb	**12430**	$600.00	$68.25
1 lb	**12429**	$280.00	$68.25
8 oz	**12428**	$260.00	$42.00
0.5 lb	**12419**	$270.00	$42.00
0.3 lb	**118521**	$170.00	$42.00
0.2 lb	**12418**	$135.00	$42.00
0.1 lb	**12417**	$105.00	$42.00
0.05 lb	**12413**	$120.00	$42.00
0.03 lb	**118517**	$120.00	$42.00
0.02 lb	**12408**	$120.00	$42.00
0.01 lb	**12406**	$105.00	$42.00
0.005 lb	**12400**	$105.00	$42.00
0.003 lb	**118513**	$105.00	$42.00
4 oz	**12427**	$130.00	$42.00
2 oz	**12426**	$125.00	$42.00
1 oz	**12425**	$105.00	$42.00
1/2 oz	**12424**	$120.00	$42.00
1/4 oz	**12423**	$120.00	$42.00
1/8 oz	**12422**	$120.00	$42.00
1/16 oz	**12421**	$120.00	$42.00



Replacement Cases

Main Cases		
Class 3 and 4 Screw Knob		
Nominal Value	Part #	Price
50 lb	**Consult**	Consult
30 lb	**80743**	$265.00
25 lb	**80742**	$265.00
20 lb	**80741**	$265.00
10 lb	**80740**	$265.00
5 lb	**190272**	$40.50
4 lb	**190268**	$40.50
3 lb	**190265**	$40.50
2 lb	**190261**	$40.50
1 lb	**189713**	$40.50

Main Cases		
Class 3 and 4 Screw Knob		
Nominal Value	Part #	Price
8 oz	**189638**	$40.50
0.5 lb	**189638**	$40.50
0.3 lb	**189633**	$40.50
0.2 lb	**189569**	$44.50
0.1 lb	**189508**	$44.50
0.05 lb	**189485**	$44.50
0.03 lb	**189478**	$44.50
0.02 lb	**189460**	$44.50
0.01 lb	**189349**	$44.50
0.005 lb	**189239**	$44.50

Main Cases		
Class 3 and 4 Screw Knob		
Nominal Value	Part #	Price
0.003 lb	**189234**	$44.50
4 oz	**189571**	$44.50
2 oz	**190126**	$40.50
1 oz	**189486**	$44.50
1/2 oz	**189478**	$44.50
1/4 oz	**189350**	$44.50
1/8 oz	**194034**	$42.00
1/16 oz	**189237**	$44.50

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Range: 0.001 lb – 1/32 oz

Class 1

Single leaf weights must ship in a vial.

Nominal Value	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
0.001 lb	**12007**	$120.00	$57.75	$47.25
0.002 lb	**12009**	$120.00	$57.75	$47.25
1/32 oz	**12036**	$120.00	$57.75	$47.25

Class 2

Single leaf weights must ship in a vial.

Nominal Value	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
0.001 lb	**12153**	$120.00	$57.75	$47.25
0.002 lb	**12155**	$120.00	$57.75	$47.25
1/32 oz	**12182**	$120.00	$57.75	$47.25

Class 3

Single leaf weights must ship in a vial.

Nominal Value	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
0.001 lb	**12291**	$120.00	$57.75	$47.25
0.002 lb	**12293**	$120.00	$57.75	$47.25
1/32 oz	**12317**	$120.00	$57.75	$47.25

Class 4

Single leaf weights must ship in a vial.

Nominal Value	Part #	Price	Optional Certificate
			Accredited
0.001 lb	**12394**	$98.00	$42.00
0.002 lb	**12396**	$98.00	$42.00
1/32 oz	**12420**	$98.00	$42.00



Kits Include a Single Weight with Vial

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Replacement vial 0.001 lb to 1/32 oz	**50038**	$5.25
Lifter bar	**11747**	$22.25

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Essential Weight™ Sets

Class 0

Set Range	Part #	Price
2 g, 200 mg, 1 mg	**186177**	$390.00
5 g, 500 mg, 1 mg	**186178**	$420.00

Class 1

Set Range	Part #	Price
20 g, 2 g, 20 mg	**186179**	$360.00
100 g, 10 g, 20 mg	**186180**	$440.00
100 g, 10 g, 200 mg	**186181**	$440.00
200 g, 20 g, 20 mg	**186182**	$460.00
200 g, 20 g, 200 mg	**186183**	$460.00
200 g, 20 g, 2 g	**186184**	$480.00
500 g, 50 g, 200 mg	**186185**	$610.00
500 g, 50 g, 2 g	**186186**	$630.00
1 kg, 100 g, 2 g	**186187**	$810.00
1 kg, 100 g, 20 g	**186188**	$830.00
2 kg, 200 g, 2 g	**186189**	$1,180.00
2 kg, 200 g, 20 g	**186190**	$1,200.00
5 kg, 500 g, 2 g	**186191**	$1,490.00
5 kg, 500 g, 20 g	**186192**	$1,520.00
100 g, 10 g, 2 g	**191089**	$480.00
500 g, 50 g, 20 mg	**191091**	$690.00
50 g, 5 g, 200 mg	**191092**	$470.00
50 g, 5 g, 2 g	**191093**	$470.00

Standard Features

- Polished stainless steel Type II design
- Sealing cavity
- Density is approximately 7.95 g/cm^3
- Special PVC weight case
- Precision tweezers included
- Configurations are ideal for calibration, shift tests and sensitivity tests
- Other configurations available by special order
- Meets USP-41 requirements for intermediate checks
- Includes ISO 17025 Accredited Certificate of Calibration



200 g PVC Set Shown, Other Sets Will Vary

Accessories

Description	Part #	Price
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Lifter bar	**11747**	$22.25

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 500 mg

Class 0
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate: Accredited
500 mg - 1 mg	**45933**	$2,250.00	Included
500 mg - 1 mg*	**96359**	$2,250.00	Included
500 mg - 10 mg	**84141**	$1,660.00	Included
500 mg - 10 mg*	**98191**	$1,660.00	Included
500 mg - 100 mg	**45934**	$1,160.00	Included
500 mg - 100 mg*	**96360**	$1,160.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
500 mg - 1 mg	**12445**	$695.00	$493.50	$393.75
500 mg - 1 mg*	**11910**	$695.00	$493.50	$393.75
500 mg - 10 mg	**12447**	$515.00	$325.50	$262.50
500 mg - 10 mg*	**11909**	$515.00	$325.50	$262.50
500 mg - 100 mg	**45952**	$480.00	$162.75	$131.25
500 mg - 100 mg*	**45944**	$495.00	$162.75	$131.25

Class 2

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
500 mg - 1 mg	**11838**	$600.00	$493.50	$393.75
500 mg - 1 mg*	**12176**	$600.00	$493.50	$393.75
500 mg - 10 mg	**11848**	$480.00	$325.50	$262.50
500 mg - 10 mg*	**12175**	$480.00	$325.50	$262.50
500 mg - 100 mg	**45953**	$420.00	$162.75	$131.25
500 mg - 100 mg*	**45945**	$420.00	$162.75	$131.25

Class 3

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
500 mg - 1 mg	**11946**	$580.00	$493.50	$393.75
500 mg - 1 mg*	**12313**	$580.00	$493.50	$393.75
500 mg - 10 mg	**11956**	$420.00	$325.50	$262.50
500 mg - 10 mg*	**12312**	$420.00	$325.50	$262.50
500 mg - 100 mg	**45954**	$340.00	$162.75	$131.25
500 mg - 100 mg*	**45946**	$340.00	$162.75	$131.25

Class 4

Set Range	Part #	Price	Optional Certificate: Accredited
500 mg - 1 mg	**12093**	$365.00	$294.00
500 mg - 1 mg*	**12416**	$365.00	$294.00
500 mg - 10 mg	**12103**	$275.00	$199.50
500 mg -10 mg*	**12415**	$275.00	$199.50
500 mg - 100 mg	**45955**	$220.00	$99.75
500 mg - 100 mg*	**45947**	$220.00	$99.75

** 5-2-2-1 configuration*

Replacement Cases

Main Cases
Class 0
(Includes leaf weight lid and slot for tweezer)

Set Range	Part #	Price
500 mg - 1 mg	**34699**	$135.00
500 mg - 1 mg	**34699**	$135.00
500 mg - 10 mg	**34699**	$135.00
500 mg - 10 mg	**34699**	$135.00
500 mg - 100 mg	**34699**	$135.00
500 mg - 100 mg	**34699**	$135.00

Main Case
Class 1, 2, 3 and 4
(Includes leaf weight lid and slot for tweezer)

Set Range	Part #	Price
500 mg - 1 mg	**11763**	$90.00
500 mg - 1 mg	**11763**	$90.00
500 mg - 10 mg	**11763**	$90.00
500 mg - 10 mg	**11763**	$90.00
500 mg - 100 mg	**11763**	$90.00
500 mg - 100 mg	**11763**	$90.00

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Range: 500 mg

Weight Set Contents

	5-2-2-1		5-2-2-1		5-2-2-1
500 mg - 1 mg	**500 mg - 1 mg**	**500 mg - 10 mg**	**500 mg - 10 mg**	**500 mg - 100 mg**	**500 mg - 100 mg**
45933 Class 0 **12445** Class 1 **11838** Class 2 **11946** Class 3 **12093** Class 4	**96359** Class 0 **11910** Class 1 **12176** Class 2 **12313** Class 3 **12416** Class 4	**84141** Class 0 **12447** Class 1 **11848** Class 2 **11956** Class 3 **12103** Class 4	**98191** Class 0 **11909** Class 1 **12175** Class 2 **12312** Class 3 **12415** Class 4	**45934** Class 0 **45952** Class 1 **45953** Class 2 **45954** Class 3 **45955** Class 4	**96360** Class 0 **45944** Class 1 **45945** Class 2 **45946** Class 3 **45947** Class 4
(1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg (1) 50 mg (1) 30 mg (1) 20 mg (1) 10 mg (1) 5 mg (1) 3 mg (1) 2 mg (1) 1 mg	(1) 500 mg – (2) 200 mg (1) 100 mg (1) 50 mg – (2) 20 mg (1) 10 mg (1) 5 mg – (2) 2 mg (1) 1 mg	(1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg (1) 50 mg (1) 30 mg (1) 20 mg (1) 10 mg	(1) 500 mg – (2) 200 mg (1) 100 mg (1) 50 mg – (2) 20 mg (1) 10 mg	(1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg	(1) 500 mg – (2) 200 mg (1) 100 mg
12 pcs. **1.221 g set wt.**	**12 pcs.** **1.11 g set wt.**	**8 pcs.** **1.21 g set wt.**	**8 pcs.** **1.11 g set wt.**	**4 pcs.** **1.1 g set wt.**	**4 pcs.** **0.8 g set wt.**



Set Includes Tweezer and Glove

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 20 g

Class 0

(Statement of Accuracy not available)

Set Range	Part #	Price	Certificate Accredited
20 g - 1 mg	**84154**	$3,075.00	Included
20 g - 5 mg	**84149**	$3,300.00	Included
20 g - 10 mg	**84148**	$3,050.00	Included
20 g - 100 mg	**84146**	$2,290.00	Included
20 g - 1 g	**84155**	$1,660.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
20 g - 1 mg	**12448**	$1,200.00	$740.25	$588.00
20 g - 1 mg*	**11908**	$1,200.00	$740.25	$588.00
20 g - 5 mg	**12450**	$1,030.00	$624.75	$493.50
20 g - 5 mg*	**11907**	$1,030.00	$624.75	$493.50
20 g - 10 mg	**12451**	$990.00	$572.25	$462.00
20 g - 10 mg*	**11906**	$990.00	$572.25	$462.00
20 g - 100 mg	**84145**	$835.00	$409.50	$325.50
20 g - 100 mg*	**11905**	$835.00	$409.50	$325.50
20 g - 1 g	**12452**	$695.00	$246.75	$199.50
20 g - 1 g*	**11904**	$695.00	$246.75	$199.50

Class 2

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
20 g - 1 mg	**11853**	$1,000.00	$740.25	$588.00
20 g - 1 mg*	**12174**	$1,000.00	$740.25	$588.00
20 g - 5 mg	**11858**	$885.00	$624.75	$493.50
20 g - 5 mg*	**12172**	$885.00	$624.75	$493.50
20 g - 10 mg	**11863**	$810.00	$572.25	$462.00
20 g - 10 mg*	**12171**	$810.00	$572.25	$462.00
20 g - 100 mg	**84144**	$705.00	$409.50	$325.50
20 g - 100 mg*	**12170**	$705.00	$409.50	$325.50
20 g - 1 g	**11868**	$600.00	$246.75	$199.50
20 g - 1 g*	**12169**	$600.00	$246.75	$199.50

Class 3

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
20 g - 1 mg	**11961**	$905.00	$740.25	$588.00
20 g - 1 mg*	**12311**	$905.00	$740.25	$588.00
20 g - 5 mg	**11966**	$815.00	$624.75	$493.50
20 g - 5 mg*	**12309**	$815.00	$624.75	$493.50
20 g - 10 mg	**11971**	$735.00	$572.25	$462.00
20 g - 10 mg*	**22188**	$735.00	$572.25	$462.00
20 g - 100 mg	**84143**	$660.00	$409.50	$325.50
20 g - 100 mg*	**22187**	$660.00	$409.50	$325.50
20 g - 1 g	**11976**	$520.00	$246.75	$199.50
20 g - 1 g*	**22186**	$520.00	$246.75	$199.50

Class 4

Set Range	Part #	Price	Optional Certificate Accredited
20 g - 1 mg	**12108**	$685.00	$451.50
20 g - 1 mg*	**12414**	$685.00	$451.50
20 g - 5 mg	**12113**	$640.00	$372.75
20 g - 5 mg*	**12412**	$640.00	$372.75
20 g - 10 mg	**12118**	$610.00	$341.25
20 g - 10 mg*	**12411**	$610.00	$341.25
20 g - 100 mg	**84142**	$510.00	$246.75
20 g - 100 mg*	**12410**	$510.00	$246.75
20 g - 1 g	**12123**	$415.00	$147.00
20 g - 1 g*	**12409**	$415.00	$147.00

** 5-2-2-1 configuration*



Set Includes Lifting Device, Glove and Case

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Range: 20 g

Weight Set Contents

	5-2-2-1		5-2-2-1		5-2-2-1		5-2-2-1		5-2-2-1
20 g - 1 mg	**20 g - 1 mg**	**20 g - 5 mg**	**20 g - 5 mg**	**20 g - 10 mg**	**20 g - 10 mg**	**20 g - 100 mg**	**20 g - 100 mg**	**20 g - 1 g**	**20 g - 1 g**
84154 Class 0 **12448** Class 1 **11853** Class 2 **11961** Class 3 **12108** Class 4	– **11908** Class 1 **12174** Class 2 **12311** Class 3 **12414** Class 4	**84149** Class 0 **12450** Class 1 **11858** Class 2 **11966** Class 3 **12113** Class 4	– **11907** Class 1 **12172** Class 2 **12309** Class 3 **12412** Class 4	**84148** Class 0 **12451** Class 1 **11863** Class 2 **11971** Class 3 **12118** Class 4	– **11906** Class 1 **12171** Class 2 **22188** Class 3 **12411** Class 4	**84146** Class 0 **84145** Class 1 **84144** Class 2 **84143** Class 3 **84142** Class 4	– **11905** Class 1 **12170** Class 2 **22187** Class 3 **12410** Class 4	**84155** Class 0 **12452** Class 1 **11868** Class 2 **11976** Class 3 **12123** Class 4	– **11904** Class 1 **12169** Class 2 **22186** Class 3 **12409** Class 4
(1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg (1) 50 mg (1) 30 mg (1) 20 mg (1) 10 mg (1) 5 mg (1) 3 mg (1) 2 mg (1) 1 mg	(1) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg (1) 50 mg – (2) 20 mg (1) 10 mg (1) 5 mg – (2) 2 mg (1) 1 mg	(1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg (1) 50 mg (1) 30 mg (1) 20 mg (1) 10 mg (1) 5 mg	(1) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg (1) 50 mg – (2) 20 mg (1) 10 mg (1) 5 mg	(1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg (1) 50 mg (1) 30 mg (1) 20 mg (1) 10 mg	(1) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg (1) 50 mg – (2) 20 mg (1) 10 mg	(1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg	(1) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg	(1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g	(1) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g
18 pcs. **42.221 g set wt.**	**18 pcs.** **42.221 g set wt.**	**15 pcs.** **42.215 g set wt.**	**15 pcs.** **42.215 g set wt.**	**14 pcs.** **42.421 g set wt.**	**14 pcs.** **41.1 g set wt.**	**10 pcs.** **41 g set wt.**	**10 pcs.** **41 g set wt.**	**6 pcs.** **41 g set wt.**	**6 pcs.** **40 g set wt.**

Replacement Cases

Main Cases		
Class 0		
Set Range	**Part #**	**Price**
20 g - 1 mg	**49503**	$265.00
20 g - 5 mg	**49503**	$265.00
20 g - 10 mg	**49503**	$265.00
20 g - 100 mg	**49503**	$265.00
20 g - 1 g	**49503**	$265.00

Main Case		
Class 1, 2, 3 and 4		
Set Range	**Part #**	**Price**
20 g - 1 mg	**11596**	$190.00
20 g - 1 mg	**11588**	$190.00
20 g - 5 mg	**11596**	$190.00
20 g - 5 mg	**11588**	$190.00
20 g - 10 mg	**11596**	$190.00
20 g - 10 mg	**11588**	$190.00
20 g - 100 mg	**11596**	$190.00
20 g - 100 mg	**11588**	$190.00
20 g - 1 g	**11596**	$190.00
20 g - 1 g	**11588**	$190.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 50 g

Class 0

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate
			Accredited
50 g - 1 mg	**84177**	$3,975.00	Included
50 g - 5 mg	**84176**	$3,725.00	Included
50 g - 10 mg	**84164**	$3,375.00	Included
50 g - 100 mg	**84163**	$2,550.00	Included
50 g - 1 g	**84178**	$1,990.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
50 g - 1 mg	**12453**	$1,180.00	$829.50	$661.50
50 g - 1 mg*	**11903**	$1,180.00	$829.50	$661.50
50 g - 5 mg	**12454**	$1,100.00	$703.50	$556.50
50 g - 5 mg*	**11902**	$1,100.00	$703.50	$556.50
50 g - 10 mg	**12455**	$1,040.00	$661.50	$525.00
50 g - 10 mg*	**11900**	$1,040.00	$661.50	$525.00
50 g - 100 mg	**84159**	$900.00	$493.50	$393.75
50 g - 100 mg*	**11899**	$900.00	$493.50	$393.75
50 g - 1 g	**12456**	$750.00	$325.50	$262.50
50 g - 1 g*	**11898**	$765.00	$325.50	$262.50

Class 2

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
50 g - 1 mg	**11873**	$1,040.00	$829.50	$661.50
50 g - 1 mg*	**12167**	$1,040.00	$829.50	$661.50
50 g - 5 mg	**11879**	$945.00	$703.50	$556.50
50 g - 5 mg*	**12165**	$945.00	$703.50	$556.50
50 g - 10 mg	**11880**	$900.00	$630.00	$504.00
50 g - 10 mg*	**12163**	$900.00	$661.50	$525.00
50 g - 100 mg	**84160**	$720.00	$493.50	$393.75
50 g - 100 mg*	**12162**	$720.00	$493.50	$393.75
50 g - 1 g	**11890**	$650.00	$325.50	$262.50
50 g - 1 g*	**12161**	$650.00	$325.50	$262.50

Class 3

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
50 g - 1 mg	**11982**	$975.00	$829.50	$661.50
50 g - 1 mg*	**22288**	$975.00	$829.50	$661.50
50 g - 5 mg	**11988**	$860.00	$703.50	$556.50
50 g - 5 mg*	**22182**	$860.00	$703.50	$556.50
50 g - 10 mg	**11989**	$825.00	$661.50	$525.00
50 g - 10 mg*	**22181**	$825.00	$661.50	$525.00
50 g - 100 mg	**84161**	$685.00	$493.50	$393.75
50 g - 100 mg*	**12300**	$685.00	$493.50	$393.75
50 g - 1 g	**12004**	$595.00	$325.50	$262.50
50 g - 1 g*	**12299**	$595.00	$325.50	$262.50

Class 4

Set Range	Part #	Price	Optional Certificate
			Accredited
50 g - 1 mg	**12128**	$825.00	$498.75
50 g - 1 mg*	**12407**	$825.00	$498.75
50 g - 5 mg	**12134**	$755.00	$420.00
50 g - 5 mg*	**12405**	$755.00	$420.00
50 g - 10 mg	**12135**	$725.00	$399.00
50 g - 10 mg*	**12404**	$725.00	$399.00
50 g - 100 mg	**84162**	$620.00	$294.00
50 g - 100 mg*	**12403**	$620.00	$294.00
50 g - 1 g	**12150**	$520.00	$199.50
50 g - 1 g*	**12402**	$520.00	$199.50

** 5-2-2-1 configuration*



Set Includes Lifting Device, Glove and Case

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Range: 50 g

Weight Set Contents

5-2-2-1		5-2-2-1		5-2-2-1		5-2-2-1		5-2-2-1	
50 g - 1 mg	**50 g - 1 mg**	**50 g - 5 mg**	**50 g - 5 mg**	**50 g - 10 mg**	**50 g - 10 mg**	**50 g - 100 mg**	**50 g - 100 mg**	**50 g - 1 g**	**50 g - 1 g**
84177 Class 0 **12453** Class 1 **11873** Class 2 **11982** Class 3 **12128** Class 4	– **11903** Class 1 **12167** Class 2 **22288** Class 3 **12407** Class 4	**84176** Class 0 **12454** Class 1 **11879** Class 2 **11988** Class 3 **12134** Class 4	– **11902** Class 1 **12165** Class 2 **22182** Class 3 **12405** Class 4	**84164** Class 0 **12455** Class 1 **11880** Class 2 **11989** Class 3 **12135** Class 4	– **11900** Class 1 **12163** Class 2 **22181** Class 3 **12404** Class 4	**84163** Class 0 **84159** Class 1 **84160** Class 2 **84161** Class 3 **84162** Class 4	– **11899** Class 1 **12162** Class 2 **12300** Class 3 **12403** Class 4	**84178** Class 0 **12456** Class 1 **11890** Class 2 **12004** Class 3 **12150** Class 4	– **11898** Class 1 **12161** Class 2 **12299** Class 3 **12402** Class 4
(1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg (1) 50 mg (1) 30 mg (1) 20 mg (1) 10 mg (1) 5 mg (1) 3 mg (1) 2 mg (1) 1 mg	(1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg (1) 50 mg – (2) 20 mg (1) 10 mg (1) 5 mg – (2) 2 mg (1) 1 mg	(1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg (1) 50 mg (1) 30 mg (1) 20 mg (1) 10 mg (1) 5 mg	(1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg (1) 50 mg – (2) 20 mg (1) 10 mg (1) 5 mg	(1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg (1) 50 mg (1) 30 mg (1) 20 mg (1) 10 mg	(1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg (1) 50 mg – (2) 20 mg (1) 10 mg	(1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg	(1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg	(1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g	(1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g
20 pcs. **122.221 g set wt.**	**20 pcs.** **111.11 g set wt.**	**17 pcs.** **122.215 g set wt.**	**17 pcs.** **111.105 g set wt.**	**16 pcs.** **122.21 g set wt.**	**16 pcs.** **111.1 g set wt.**	**12 pcs.** **122.1 g set wt.**	**12 pcs.** **111 g set wt.**	**8 pcs.** **121 g set wt.**	**8 pcs.** **110 g set wt.**

CALIBRATION WEIGHTS
ASTM PRECISION

Replacement Cases

Main Cases

Class 0

Set Range	Part #	Price
50 g - 1 mg	**49503**	$265.00
50 g - 5 mg	**49503**	$265.00
50 g - 10 mg	**49503**	$265.00
50 g - 100 mg	**49503**	$265.00
50 g - 1 g	**49503**	$265.00

Main Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
50 g - 1 mg	**11596**	$190.00
50 g - 1 mg	**11588**	$190.00
50 g - 5 mg	**11596**	$190.00
50 g - 5 mg	**11588**	$190.00
50 g - 10 mg	**11596**	$190.00
50 g - 10 mg	**11588**	$190.00
50 g - 100 mg	**11596**	$190.00
50 g - 100 mg	**11588**	$190.00
50 g - 1 g	**11596**	$190.00
50 g - 1 g	**11588**	$190.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 100 g

Class 0

Statement of Accuracy not available

Set Range	Part #	Price	Certificate Accredited
100 g - 1 mg	**45930**	$4,375.00	Included
100 g - 5 mg	**84211**	$3,825.00	Included
100 g - 10 mg	**84212**	$3,525.00	Included
100 g - 100 mg	**45931**	$2,925.00	Included
100 g - 1 g	**45932**	$2,120.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
100 g - 1 mg	**12457**	$1,280.00	$871.50	$651.00
100 g - 1 mg*	**11897**	$1,280.00	$871.50	$651.00
100 g - 5 mg	**11911**	$1,140.00	$740.25	$567.00
100 g - 5 mg*	**11896**	$1,140.00	$740.25	$567.00
100 g - 10 mg	**12460**	$1,120.00	$703.50	$556.50
100 g - 10 mg*	**11895**	$1,120.00	$703.50	$556.50
100 g - 100 mg	**45956**	$905.00	$535.50	$425.25
100 g - 100 mg*	**45948**	$905.00	$535.50	$425.25
100 g - 1 g	**12461**	$815.00	$372.75	$294.00
100 g - 1 g*	**11894**	$815.00	$372.75	$294.00

Class 2

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
100 g - 1 mg	**11901**	$1,120.00	$871.50	$651.00
100 g - 1 mg*	**12160**	$1,120.00	$871.50	$651.00
100 g - 5 mg	**12158**	$995.00	$740.25	$567.00
100 g - 5 mg*	-	Consult	$740.25	$567.00
100 g - 10 mg	**11912**	$975.00	$703.50	$556.50
100 g - 10 mg*	**12157**	$975.00	$703.50	$556.50
100 g - 100 mg	**45957**	$945.00	$535.50	$425.25
100 g - 100 mg*	**45949**	$945.00	$535.50	$425.25
100 g - 1 g	**11913**	$815.00	$372.75	$294.00
100 g - 1 g*	**12156**	$805.00	$372.75	$294.00

Class 3

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
100 g - 1 mg	**12018**	$1,050.00	$871.50	$651.00
100 g - 1 mg*	**12298**	$1,050.00	$871.50	$651.00
100 g - 5 mg	**12031**	$930.00	$740.25	$551.25
100 g - 5 mg*	**12296**	$930.00	$740.25	$567.00
100 g - 10 mg	**12035**	$925.00	$703.50	$556.50
100 g - 10 mg*	**12295**	$925.00	$703.50	$556.50
100 g - 100 mg	**45958**	$880.00	$535.50	$425.25
100 g - 100 mg*	**45950**	$880.00	$535.50	$425.25
100 g - 1 g	**12045**	$785.00	$372.75	$294.00
100 g - 1 g*	**12294**	$785.00	$372.75	$294.00

Class 4

Set Range	Part #	Price	Optional Certificate Accredited
100 g - 1 mg	**12164**	$960.00	$530.25
100 g - 1 mg*	**12401**	$960.00	$530.25
100 g - 5 mg	**12177**	$930.00	$451.50
100 g - 5 mg*	**12399**	$930.00	$451.50
100 g - 10 mg	**12181**	$925.00	$414.75
100 g - 10 mg*	**12398**	$925.00	$414.75
100 g - 100 mg	**45959**	$780.00	$320.25
100 g - 100 mg*	**45951**	$780.00	$320.25
100 g - 1 g	**12191**	$680.00	$225.75
100 g - 1 g*	**12397**	$680.00	$225.75

** 5-2-2-1 configuration*



Set Includes Lifting Device, Glove and Case

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Range: 100 g

Weight Set Contents

	5-2-2-1		5-2-2-1		5-2-2-1		5-2-2-1		5-2-2-1
100 g - 1 mg	**100 g - 1 mg**	**100 g - 5 mg**	**100 g - 5 mg**	**100 g - 10 mg**	**100 g - 10 mg**	**100 g - 100 mg**	**100 g - 100 mg**	**100 g - 1 g**	**100 g - 1 g**
45930 Class 0 **12457** Class 1 **11901** Class 2 **12018** Class 3 **12164** Class 4	– **11897** Class 1 **12160** Class 2 **12298** Class 3 **12401** Class 4	**84211** Class 0 **11911** Class 1 **12158** Class 2 **12031** Class 3 **12177** Class 4	– **11896** Class 1 – **12296** Class 3 **12399** Class 4	**84212** Class 0 **12460** Class 1 **11912** Class 2 **12035** Class 3 **12181** Class 4	– **11895** Class 1 **12157** Class 2 **12295** Class 3 **12398** Class 4	**45931** Class 0 **45956** Class 1 **45957** Class 2 **45958** Class 3 **45959** Class 4	– **45948** Class 1 **45949** Class 2 **45950** Class 3 **45951** Class 4	**45932** Class 0 **12461** Class 1 **11913** Class 2 **12045** Class 3 **12191** Class 4	– **11894** Class 1 **12156** Class 2 **12294** Class 3 **12397** Class 4
(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g
(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g
(1) 30 g	–	(1) 30 g	–	(1) 30 g	–	(1) 30 g	–	(1) 30 g	–
(1) 20 g	(2) 20 g	(1) 20 g	(2) 20 g	(1) 20 g	(2) 20 g	(1) 20 g	(2) 20 g	(1) 20 g	(2) 20 g
(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g
(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g
(1) 3 g	–	(1) 3 g	–	(1) 3 g	–	(1) 3 g	–	(1) 3 g	–
(1) 2 g	(2) 2 g	(1) 2 g	(2) 2 g	(1) 2 g	(2) 2 g	(1) 2 g	(2) 2 g	(1) 2 g	(2) 2 g
(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g
(1) 500 mg	(1) 500 mg	(1) 500 mg	(1) 500 mg	(1) 500 mg	(1) 500 mg	(1) 500 mg	(1) 500 mg		
(1) 300 mg	–	(1) 300 mg	–	(1) 300 mg	–	(1) 300 mg	–		
(1) 200 mg	(2) 200 mg	(1) 200 mg	(2) 200 mg	(1) 200 mg	(2) 200 mg	(1) 200 mg	(2) 200 mg		
(1) 100 mg	(1) 100 mg	(1) 100 mg	(1) 100 mg	(1) 100 mg	(1) 100 mg	(1) 100 mg	(1) 100 mg		
(1) 50 mg	(1) 50 mg	(1) 50 mg	(1) 50 mg	(1) 50 mg	(1) 50 mg				
(1) 30 mg	–	(1) 30 mg	–	(1) 30 mg	–				
(1) 20 mg	(2) 20 mg	(1) 20 mg	(2) 20 mg	(1) 20 mg	(2) 20 mg				
(1) 10 mg	(1) 10 mg	(1) 10 mg	(1) 10 mg	(1) 10 mg	(1) 10 mg				
(1) 5 mg	(1) 5 mg	(1) 5 mg	(1) 5 mg						
(1) 3 mg	–								
(1) 2 mg	(2) 2 mg								
(1) 1 mg	(1) 1 mg								
21 pcs. **222.221 g set wt.**	**21 pcs.** **211.11 g set wt.**	**18 pcs.** **222.215 g set wt.**	**18 pcs.** **211.085 g set wt.**	**17 pcs.** **222.21 g set wt.**	**17 pcs.** **211.1 g set wt.**	**13 pcs.** **222.1 g set wt.**	**13 pcs.** **211 g set wt.**	**9 pcs.** **221 g set wt.**	**9 pcs.** **210 g set wt.**

Replacement Cases

Main Cases

Class 0

Set Range	Part #	Price
100 g - 1 mg	**49503**	$265.00
100 g - 5 mg	**49503**	$265.00
100 g - 10 mg	**49503**	$265.00
100 g - 100 mg	**49503**	$265.00
100 g - 1 g	**49503**	$265.00

Main Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
100 g - 1 mg	**11596**	$190.00
100 g - 1 mg	**11588**	$190.00
100 g - 5 mg	**11596**	$190.00
100 g - 5 mg	**11588**	$190.00
100 g - 10 mg	**11596**	$190.00
100 g - 10 mg	**11588**	$190.00
100 g - 100 mg	**11596**	$190.00
100 g - 100 mg	**11588**	$190.00
100 g - 1 g	**11596**	$190.00
100 g - 1 g	**11588**	$190.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50

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Range: 200 g

Class 0

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate
			Accredited
200 g - 1 mg	**45927**	$4,825.00	Included
200 g - 1 mg*	**156298**	$4,825.00	Included
(2) 200 g - 1 mg*	**87039**	$5,375.00	Included
200 g - 10 mg	**84213**	$4,350.00	Included
(2) 200 g - 10 mg*	**87038**	$4,650.00	Included
200 g - 100 mg	**45928**	$3,775.00	Included
(2) 200 g - 100 mg*	**87037**	$4,025.00	Included
200 g - 1 g	**45929**	$2,525.00	Included
(2) 200 g - 1 g*	**87040**	$3,000.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
200 g - 1 mg	**12462**	$1,360.00	$976.50	$693.00
200 g - 1 mg*	**156299**	$1,360.00	$976.50	$693.00
(2) 200 g - 1 mg*	**87053**	$1,440.00	$1,081.50	$708.75
200 g - 10 mg	**12467**	$1,240.00	$808.50	$561.75
(2) 200 g - 10 mg*	**87049**	$1,420.00	$913.50	$656.25
200 g - 100 mg	**45960**	$1,200.00	$640.50	$472.50
(2) 200 g - 100 mg*	**87045**	$1,370.00	$735.00	$519.75
200 g - 1 g	**12468**	$1,010.00	$472.50	$341.25
200 g - 1 g*	**11893**	$1,010.00	$472.50	$341.25
(2) 200 g - 1 g*	**87057**	$1,160.00	$567.00	$388.50

Class 2

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
200 g - 1 mg	**11914**	$1,310.00	$976.50	$693.00
200 g - 1 mg*	**156300**	$1,310.00	$976.50	$693.00
(2) 200 g - 1 mg*	**87054**	$1,360.00	$1,081.50	$708.75
200 g - 10 mg	**11916**	$1,070.00	$808.50	$561.75
(2) 200 g - 10 mg*	**87050**	$1,330.00	$913.50	$656.25
200 g - 100 mg	**45961**	$1,020.00	$640.50	$472.50
(2) 200 g - 100 mg*	**87046**	$1,300.00	$735.00	$519.75
200 g - 1 g	**11917**	$945.00	$472.50	$341.25
200 g - 1 g*	**12154**	$945.00	$472.50	$341.25
(2) 200 g - 1 g*	**87058**	$980.00	$567.00	$388.50

Class 3

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
200 g - 1 mg	**12051**	$1,290.00	$976.50	$693.00
200 g - 1 mg*	**156301**	$1,290.00	$976.50	$693.00
(2) 200 g - 1 mg*	**87055**	$1,360.00	$1,081.50	$708.75
200 g - 10 mg	**12064**	$1,040.00	$808.50	$561.75
(2) 200 g - 10 mg*	**87051**	$1,300.00	$913.50	$656.25
200 g - 100 mg	**45962**	$945.00	$640.50	$472.50
(2) 200 g - 100 mg*	**87047**	$1,290.00	$735.00	$519.75
200 g - 1 g	**12065**	$935.00	$472.50	$341.25
200 g - 1 g*	**12292**	$935.00	$472.50	$341.25
(2) 200 g - 1 g*	**87059**	$975.00	$567.00	$388.50

Class 4

Set Range	Part #	Price	Optional Certificate
			Accredited
200 g - 1 mg	**12197**	$1,010.00	$556.50
200 g - 1 mg*	**156302**	$1,010.00	$556.50
(2) 200 g - 1 mg*	**87056**	$1,100.00	$588.00
200 g - 10 mg	**12210**	$965.00	$462.00
(2) 200 g - 10 mg*	**87052**	$1,050.00	$493.50
200 g - 100 mg	**45963**	$865.00	$357.00
(2) 200 g - 100 mg*	**87048**	$1,010.00	$393.75
200 g - 1 g	**12211**	$735.00	$257.25
200 g - 1 g*	**12395**	$735.00	$257.25
(2) 200 g - 1 g*	**87060**	$860.00	$294.00

** 5-2-2-1 configuration*

Weight Set Contents

5-2-2-1

200 g - 1 mg	200 g - 1 mg
45927 Class 0	**156298** Class 0
12462 Class 1	**156299** Class 1
11914 Class 2	**156300** Class 2
12051 Class 3	**156301** Class 3
12197 Class 4	**156302** Class 4
(1) 200 g	(1) 200 g
(1) 100 g	(1) 100 g
(1) 50 g	(1) 50 g
(1) 30 g	–
(1) 20 g	(2) 20 g
(1) 10 g	(1) 10 g
(1) 5 g	(1) 5 g
(1) 3 g	–
(1) 2 g	(2) 2 g
(1) 1 g	(1) 1 g
(1) 500 mg	(1) 500 mg
(1) 300 mg	–
(1) 200 mg	(2) 200 mg
(1) 100 mg	(1) 100 mg
(1) 50 mg	(1) 50 mg
(1) 30 mg	–
(1) 20 mg	(2) 20 mg
(1) 10 mg	(1) 10 mg
(1) 5 mg	(1) 5 mg
(1) 3 mg	–
(1) 2 mg	(2) 2 mg
(1) 1 mg	(1) 1 mg
22 pcs.	**22 pcs.**
422.221g set wt.	**422.221g set wt.**



Set Includes Lifting Device, Glove and Case

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Range: 200 g

Weight Set Contents

5-2-2-1	5-2-2-1	5-2-2-1	5-2-2-1	5-2-2-1		5-2-2-1	5-2-2-1
(2) 200 g - 1 mg	200 g - 10 mg	(2) 200 g - 10 mg	200 g - 100 mg	(2) 200 g - 100 mg	200 g - 1 g	200 g - 1 g	(2) 200 g - 1 g
87039 Class 0 **87053** Class 1 **87054** Class 2 **87055** Class 3 **87056** Class 4	**84213** Class 0 **12467** Class 1 **11916** Class 2 **12064** Class 3 **12210** Class 4	**87038** Class 0 **87049** Class 1 **87050** Class 2 **87051** Class 3 **87052** Class 4	**45928** Class 0 **45960** Class 1 **45961** Class 2 **45962** Class 3 **45963** Class 4	**87037** Class 0 **87045** Class 1 **87046** Class 2 **87047** Class 3 **87048** Class 4	**45929** Class 0 **12468** Class 1 **11917** Class 2 **12065** Class 3 **12211** Class 4	– **11893** Class 1 **12154** Class 2 **12292** Class 3 **12395** Class 4	**87040** Class 0 **87057** Class 1 **87058** Class 2 **87059** Class 3 **87060** Class 4
(2) 200 g (1) 100 g (1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg (1) 50 mg – (2) 20 mg (1) 10 mg (1) 5 mg – (2) 2 mg (1) 1 mg	(1) 200 g (1) 100 g (1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg (1) 50 mg (1) 30 mg (1) 20 mg (1) 10 mg	(2) 200 g (1) 100 g (1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg (1) 50 mg – (2) 20 mg (1) 10 mg	(1) 200 g (1) 100 g (1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg	(2) 200 g (1) 100 g (1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g (1) 500 mg – (2) 200 mg (1) 100 mg	(1) 200 g (1) 100 g (1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g	(1) 200 g (1) 100 g (1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g	(2) 200 g (1) 100 g (1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g
23 pcs. **622.221 g set wt.**	**18 pcs.** **422.210 g set wt.**	**19 pcs.** **611.1 g set wt.**	**14 pcs.** **422.19 g set wt.**	**15 pcs.** **611 g set wt.**	**10 pcs.** **421 g set wt.**	**10 pcs.** **410 g set wt.**	**11 pcs.** **610 g set wt.**

Replacement Cases

Main Cases

Class 0, 1, 2, 3 and 4

Set Range	Part #	Price
200 g - 1 mg	**34645**	$350.00
200 g - 1 mg	**34645**	$350.00
(2) 200 g - 1 mg	**34645**	$350.00
200 g - 10 mg	**34645**	$350.00
(2) 200 g - 10 mg	**34645**	$350.00
200 g - 100 mg	**34645**	$350.00
(2) 200 g - 100 mg	**34645**	$350.00
200 g - 1 g	**34645**	$350.00
(2) 200 g - 1 g	**34645**	$350.00

Inserts

Class 0

Set Range	Part #	Price
200 g - 1 mg	**50431**	$135.00
(2) 200 g - 1 mg	**84473**	$420.00
(2) 200 g - 10 mg	**84473**	$420.00
(2) 200 g - 100 mg	**84473**	$420.00
200 g - 1 g	**50430**	$135.00
(2) 200 - 1 g	**84472**	$420.00

Inserts

Class 1, 2, 3 and 4

Set Range	Part #	Price
200 g - 1 mg	**11601**	$205.00
(2) 200 g - 1 g	**84465**	$205.00
(2) 200 g - 1 mg	**84464**	$205.00
200 g - 1 g*	**11587**	$205.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Lifter bar	**11747**	$22.25

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 300 g and 500 g

Class 0

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
500 g - 1 mg	**45923**	$6,050.00	Included
500 g - 100 mg	**45924**	$4,775.00	Included
500 g - 1 g	**45925**	$3,950.00	Included
500 g - 100 g	**45926**	$2,470.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
300 g - 1 g	**11892**	$1,700.00	$567.00	$388.50
500 g - 1 mg	**12469**	$2,825.00	$1,176.00	$750.75
500 g - 100 mg	**45964**	$2,775.00	$840.00	$561.75
500 g - 1 g	**12472**	$1,850.00	$672.00	$430.50
500 g - 1 g*	**11891**	$1,850.00	$672.00	$430.50
500 g - 100 g	**45968**	$1,310.00	$341.25	$173.25

Class 2

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
300 g - 1 g	**12152**	$1,560.00	$567.00	$388.50
500 g - 1 mg	**11918**	$2,170.00	$1,176.00	$750.75
500 g - 100 mg	**45965**	$2,040.00	$840.00	$561.75
500 g - 1 g	**11921**	$1,700.00	$672.00	$430.50
500 g - 1 g*	**12151**	$1,700.00	$672.00	$430.50
500 g - 100 g	**45969**	$1,200.00	$341.25	$173.25

Class 3

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
300 g - 1 g	**12290**	$1,500.00	$567.00	$388.50
500 g - 1 mg	**12066**	$2,120.00	$1,176.00	$750.75
500 g - 100 mg	**45966**	$1,940.00	$840.00	$561.75
500 g - 1 g	**12069**	$1,650.00	$672.00	$430.50
500 g - 1 g*	**12289**	$1,650.00	$672.00	$430.50
500 g - 100 g	**45970**	$1,180.00	$341.25	$173.25

Class 4

Set Range	Part #	Price	Optional Certificate Accredited
300 g - 1 g	**12393**	$1,380.00	$294.00
500 g - 1 mg	**12212**	$1,940.00	$635.25
500 g - 100 mg	**45967**	$1,730.00	$393.75
500 g - 1 g	**12215**	$1,530.00	$325.50
500 g - 1 g*	**12392**	$1,530.00	$325.50
500 g - 100 g	**45971**	$1,010.00	$131.25

** 5-2-2-1 configuration*



Set Includes Lifting Device, Glove and Case (500 g to 1 g)

Replacement Cases

Main Cases

Class 0

Set Range	Part #	Price
500 g - 1 mg	**34645**	$350.00
500 g - 100 mg	**34645**	$350.00
500 g - 1 g	**34645**	$350.00
500 g - 100 g	**34645**	$350.00

Main Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
300 g - 1 g	**34645**	$350.00
500 g - 1 mg	**34645**	$350.00
500 g - 100 mg	**34645**	$350.00
500 g - 1 g	**34645**	$350.00
500 g - 1 g	**34645**	$350.00
500 g - 100 g	**34645**	$350.00

Inserts

Class 0

Set Range	Part #	Price
500 g - 1 mg	**49500**	$275.00
500 g - 100 g	**49501**	$220.00

Inserts

Class 1, 2, 3 and 4

Set Range	Part #	Price
300 g - 1 g	**11586**	$205.00
500 g - 1 mg	**11602**	$205.00
500 g - 1 g*	**11585**	$205.00

** 5-2-2-1 configuration*

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Range: 300 g and 500 g

Weight Set Contents

5-2-2-1

300 g - 1 g	500 g - 1 mg	500 g - 100 mg	500 g - 1 g	500 g - 1 g	500 g - 100 g
–	**45923** Class 0	**45924** Class 0	**45925** Class 0	–	**45926** Class 0
11892 Class 1	**12469** Class 1	**45964** Class 1	**12472** Class 1	**11891** Class 1	**45968** Class 1
12152 Class 2	**11918** Class 2	**45965** Class 2	**11921** Class 2	**12151** Class 2	**45969** Class 2
12290 Class 3	**12066** Class 3	**45966** Class 3	**12069** Class 3	**12289** Class 3	**45970** Class 3
12393 Class 4	**12212** Class 4	**45967** Class 4	**12215** Class 4	**12392** Class 4	**45971** Class 4
–	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g
(1) 300 g	(1) 300 g	(1) 300 g	(1) 300 g	–	(1) 300 g
(1) 200 g	(1) 200 g	(1) 200 g	(1) 200 g	(2) 200 g	(1) 200 g
(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g
(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	
(1) 30 g	(1) 30 g	(1) 30 g	(1) 30 g	–	
(1) 20 g	(1) 20 g	(1) 20 g	(1) 20 g	(2) 20 g	
(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	
(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	
(1) 3 g	(1) 3 g	(1) 3 g	(1) 3 g	–	
(1) 2 g	(1) 2 g	(1) 2 g	(1) 2 g	(2) 2 g	
(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	
	(1) 500 mg	(1) 500 mg			
	(1) 300 mg	(1) 300 mg			
	(1) 200 mg	(1) 200 mg			
	(1) 100 mg	(1) 100 mg			
	(1) 50 mg				
	(1) 30 mg				
	(1) 20 mg				
	(1) 10 mg				
	(1) 5 mg				
	(1) 3 mg				
	(1) 2 mg				
	(1) 1 mg				
11 pcs. **721 g set wt.**	**24 pcs.** **1.222221 kg set wt.**	**16 pcs.** **1.2221 kg set wt.**	**12 pcs.** **1.221 kg set wt.**	**12 pcs.** **1.10 kg set wt.**	**4 pcs.** **1.1 kg set wt.**

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Lifter bar	**11747**	$22.25

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 1kg

Class 0

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate: Accredited
1kg - 1mg	**45919**	$6,975.00	Included
1kg - 100mg	**45920**	$5,750.00	Included
1kg - 1g	**45921**	$4,850.00	Included
1kg - 100g	**45922**	$3,550.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
1kg - 1mg	**12473**	$3,350.00	$1,270.50	$803.25
1kg - 100mg	**45972**	$3,275.00	$945.00	$551.25
1kg - 1g	**12476**	$2,975.00	$766.50	$477.75
1kg - 1g*	**11889**	$2,975.00	$766.50	$477.75
1kg - 100g	**45976**	$2,725.00	$435.75	$215.25

Class 2

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
1kg - 1mg	**11922**	$3,050.00	$1,270.50	$803.25
1kg - 100mg	**45973**	$3,025.00	$945.00	$551.25
1kg - 1g	**11925**	$2,875.00	$766.50	$477.75
1kg - 1g*	**12149**	$2,875.00	$766.50	$477.75
1kg - 100g	**45977**	$2,625.00	$435.75	$215.25

Class 3

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
1kg - 1mg	**12070**	$3,025.00	$1,270.50	$803.25
1kg - 100mg	**45974**	$2,975.00	$945.00	$551.25
1kg - 1g	**12073**	$2,750.00	$766.50	$477.75
1kg - 1g*	**12288**	$2,750.00	$766.50	$477.75
1kg - 100g	**45978**	$2,575.00	$435.75	$215.25

Class 4

Set Range	Part #	Price	Optional Certificate: Accredited
1kg - 1mg	**12216**	$2,800.00	$661.50
1kg - 100mg	**45975**	$2,750.00	$446.25
1kg - 1g	**12219**	$2,675.00	$367.50
1kg - 1g*	**12391**	$2,575.00	$367.50
1kg - 100g	**45979**	$2,280.00	$162.75

** 5-2-2-1 configuration*



Set Includes Lifting Device, Glove and Case (1 kg to 1 mg)

Replacement Cases

Main Cases

Class 0

Set Range	Part #	Price
1kg - 1mg	**50437**	$1,920.00
1kg - 100mg	**50437**	$1,920.00
1kg - 1g	**50437**	$1,920.00
1kg - 100g	**50437**	$1,920.00

Main Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
1kg - 1mg	**11603**	$1,920.00
1kg - 100mg	**11603**	$1,920.00
1kg - 1g	**11603**	$1,920.00
1kg - 1g	**11584**	$1,660.00
1kg - 100g	**11603**	$1,920.00

Secondary Case

Class 0

Set Range	Part #	Price
100g - 1mg	**49503**	$265.00

Secondary Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
100g - 1mg	**11596**	$190.00
100g - 1mg*	**11588**	$190.00

** 5-2-2-1 configuration*

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Range: 1 kg

Weight Set Contents

5-2-2-1

1 kg - 1 mg	1 kg - 100 mg	1 kg - 1 g	1 kg - 1 g	1 kg - 100 g
45919 Class 0 **12473** Class 1 **11922** Class 2 **12070** Class 3 **12216** Class 4	**45920** Class 0 **45972** Class 1 **45973** Class 2 **45974** Class 3 **45975** Class 4	**45921** Class 0 **12476** Class 1 **11925** Class 2 **12073** Class 3 **12219** Class 4	– **11889** Class 1 **12149** Class 2 **12288** Class 3 **12391** Class 4	**45922** Class 0 **45976** Class 1 **45977** Class 2 **45978** Class 3 **45979** Class 4
(1) 1 kg (1) 500 g (1) 300 g (1) 200 g (1) 100 g (1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg (1) 50 mg (1) 30 mg (1) 20 mg (1) 10 mg (1) 5 mg (1) 3 mg (1) 2 mg (1) 1 mg	(1) 1 kg (1) 500 g (1) 300 g (1) 200 g (1) 100 g (1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g (1) 500 mg (1) 300 mg (1) 200 mg (1) 100 mg	(1) 1 kg (1) 500 g (1) 300 g (1) 200 g (1) 100 g (1) 50 g (1) 30 g (1) 20 g (1) 10 g (1) 5 g (1) 3 g (1) 2 g (1) 1 g	(1) 1 kg (1) 500 g – (2) 200 g (1) 100 g (1) 50 g – (2) 20 g (1) 10 g (1) 5 g – (2) 2 g (1) 1 g	(1) 1 kg (1) 500 g (1) 300 g (1) 200 g (1) 100 g
25 pcs. **2.222221 kg set wt.**	**17 pcs.** **2.2221 kg set wt.**	**13 pcs.** **2.221 kg set wt.**	**13 pcs.** **2.11 kg set wt.**	**5 pcs.** **2.1 kg set wt.**

Inserts		
Class 1, 2, 3 and 4		
Set Range	**Part #**	**Price**
100 g	**46380**	$130.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Lifter bar	**11747**	$22.25
Tong assembly, Class 0	**50000**	$78.00

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 2 kg

Class 0

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate
			Accredited
2 kg - 1 mg	**45915**	$8,900.00	Included
(2) 2 kg - 1 mg*	**87043**	$10,675.00	Included
(2) 2 kg - 10 mg*	**87042**	$10,125.00	Included
2 kg - 100 mg	**45916**	$8,575.00	Included
(2) 2 kg - 100 mg	**87041**	$9,450.00	Included
2 kg - 1 g	**45917**	$6,425.00	Included
(2) 2 kg - 1 g	**87044**	$8,275.00	Included
2 kg - 100 g	**45918**	$5,175.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
2 kg - 1 mg	**12477**	$4,300.00	$1,375.50	$945.00
(2) 2 kg - 1 mg*	**87069**	$4,800.00	$1,501.50	$1,008.00
(2) 2 kg - 10 mg*	**87065**	$4,700.00	$1,333.50	$871.50
2 kg - 100 mg	**45980**	$4,550.00	$1,050.00	$672.00
(2) 2 kg - 100 mg*	**87061**	$4,650.00	$1,176.00	$735.00
2 kg - 1 g	**12480**	$3,625.00	$882.00	$535.50
2 kg - 1 g*	**11888**	$3,625.00	$882.00	$535.50
(2) 2 kg - 1 g*	**87073**	$4,450.00	$1,008.00	$598.50
2 kg - 100 g	**45984**	$3,500.00	$546.00	$273.00

Class 2

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
2 kg - 1 mg	**11926**	$3,825.00	$1,375.50	$945.00
(2) 2 kg - 1 mg*	**87070**	$4,600.00	$1,501.50	$1,008.00
(2) 2 kg - 10 mg*	**87066**	$4,300.00	$1,333.50	$871.50
2 kg - 100 mg	**45981**	$4,000.00	$1,050.00	$672.00
(2) 2 kg - 100 mg*	**87062**	$4,125.00	$1,176.00	$735.00
2 kg - 1 g	**11929**	$3,425.00	$882.00	$535.50
2 kg - 1 g*	**12148**	$3,425.00	$882.00	$535.50
(2) 2 kg - 1 g*	**87074**	$4,125.00	$1,008.00	$598.50
2 kg - 100 g	**45985**	$3,350.00	$546.00	$273.00

Class 3

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
2 kg - 1 mg	**12074**	$3,775.00	$1,375.50	$945.00
(2) 2 kg - 1 mg*	**87071**	$4,450.00	$1,501.50	$1,008.00
(2) 2 kg - 10 mg*	**87067**	$4,100.00	$1,333.50	$871.50
2 kg - 100 mg	**45982**	$3,925.00	$1,050.00	$672.00
(2) 2 kg - 100 mg*	**87063**	$3,925.00	$1,176.00	$735.00
2 kg - 1 g	**12077**	$3,350.00	$882.00	$535.50
2 kg - 1 g*	**12287**	$3,350.00	$882.00	$535.50
(2) 2 kg - 1 g*	**87075**	$4,000.00	$1,008.00	$598.50
2 kg - 100 g	**45986**	$3,125.00	$546.00	$273.00

Class 4

Set Range	Part #	Price	Optional Certificate
			Accredited
2 kg - 1 mg	**12220**	$3,375.00	$672.00
(2) 2 kg - 1 mg*	**87072**	$4,100.00	$766.50
(2) 2 kg - 10 mg*	**87068**	$3,750.00	$672.00
2 kg - 100 mg	**45983**	$3,900.00	$514.50
(2) 2 kg - 100 mg*	**87064**	$3,725.00	$567.00
2 kg - 1 g	**12223**	$3,225.00	$414.75
2 kg - 1 g*	**12390**	$3,225.00	$414.75
(2) 2 kg - 1 g*	**87076**	$3,475.00	$472.50
2 kg - 100 g	**45987**	$3,000.00	$220.50

** 5-2-2-1 configuration*



Set Includes Lifting Device, Glove and Case (2 kg to 1 mg)

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Range: 2 kg

Weight Set Contents

	5-2-2-1	5-2-2-1		5-2-2-1		5-2-2-1	5-2-2-1	
2 kg - 1 mg	**(2) 2 kg - 1 mg**	**(2) 2 kg - 10 mg**	**2 kg - 100 mg**	**(2) 2 kg - 100 mg**	**2 kg - 1 g**	**2 kg - 1 g**	**(2) 2 kg - 1 g**	**2 kg - 100 g**
45915 Class 0 **12477** Class 1 **11926** Class 2 **12074** Class 3 **12220** Class 4	**87043** Class 0 **87069** Class 1 **87070** Class 2 **87071** Class 3 **87072** Class 4	**87042** Class 0 **87065** Class 1 **87066** Class 2 **87067** Class 3 **87068** Class 4	**45916** Class 0 **45980** Class 1 **45981** Class 2 **45982** Class 3 **45983** Class 4	**87041** Class 0 **87061** Class 1 **87062** Class 2 **87063** Class 3 **87064** Class 4	**45917** Class 0 **12480** Class 1 **11929** Class 2 **12077** Class 3 **12223** Class 4	– **11888** Class 1 **12148** Class 2 **12287** Class 3 **12390** Class 4	**87044** Class 0 **87073** Class 1 **87074** Class 2 **87075** Class 3 **87076** Class 4	**45918** Class 0 **45984** Class 1 **45985** Class 2 **45986** Class 3 **45987** Class 4
(1) 2 kg	(2) 2 kg	(2) 2 kg	(1) 2 kg	(2) 2 kg	(1) 2 kg	(1) 2 kg	(2) 2 kg	(1) 2 kg
(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg
(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g
(1) 300 g	–	–	(1) 300 g	–	(1) 300 g	–	–	(1) 300 g
(1) 200 g	(2) 200 g	(2) 200 g	(1) 200 g	(2) 200 g	(1) 200 g	(2) 200 g	(2) 200 g	(1) 200 g
(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g
(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	
(1) 30 g	–	–	(1) 30 g	–	(1) 30 g	–	–	
(1) 20 g	(2) 20 g	(2) 20 g	(1) 20 g	(2) 20 g	(1) 20 g	(2) 20 g	(2) 20 g	
(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	
(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	
(1) 3 g	–	–	(1) 3 g	–	(1) 3 g	–	–	
(1) 2 g	(2) 2 g	(2) 2 g	(1) 2 g	(2) 2 g	(1) 2 g	(2) 2 g	(2) 2 g	
(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	
(1) 500 mg	(1) 500 mg	(1) 500 mg	(1) 500 mg	(1) 500 mg				
(1) 300 mg	–	–	(1) 300 mg	–				
(1) 200 mg	(2) 200 mg	(2) 200 mg	(1) 200 mg	(2) 200 mg				
(1) 100 mg	(1) 100 mg	(1) 100 mg	(1) 100 mg	(1) 100 mg				
(1) 50 mg	(1) 50 mg	(1) 50 mg						
(1) 30 mg	–	–						
(1) 20 mg	(2) 20 mg	(2) 20 mg						
(1) 10 mg	(1) 10 mg	(1) 10 mg						
(1) 5 mg	(1) 5 mg							
(1) 3 mg	–							
(1) 2 mg	(2) 2 mg							
(1) 1 mg	(1) 1 mg							
26 pcs. **4.222221 kg set wt.**	**27 pcs.** **6.222221 kg set wt.**	**23 pcs.** **6.22 kg set wt.**	**18 pcs.** **4.2221 kg set wt.**	**19 pcs.** **6.2221 kg set wt.**	**14 pcs.** **4.11 kg set wt.**	**14 pcs.** **4.11 kg set wt.**	**15 pcs.** **6.221 kg set wt.**	**6 pcs.** **4.1 kg set wt.**

Replacement Cases

Main Cases

Class 0

Set Range	Part #	Price
2 kg - 1 mg	**50439**	$1,950.00
(2) 2 kg - 1 mg	**84474**	$2,070.00
(2) 2 kg - 10 mg	**84474**	$2,070.00
2 kg - 100 mg	**50439**	$1,950.00
(2) 2 kg - 100 mg	**84474**	$2,070.00
2 kg - 1 g	**50439**	$1,950.00
(2) 2 kg - 1 g	**84474**	$2,070.00
2 kg - 100 g	**50438**	$1,950.00

Main Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
2 kg - 1 mg	**11604**	$1,660.00
(2) 2 kg - 1 mg	**84463**	$1,670.00
(2) 2 kg - 10 mg	**84463**	$1,670.00
2 kg - 100 mg	**11604**	$1,660.00
(2) 2 kg - 100 mg	**84463**	$1,670.00
2 kg - 1 g	**11604**	$1,660.00
2 kg - 1 g	**11583**	$1,920.00
(2) 2 kg - 1 g	**84463**	$1,670.00
2 kg - 100 g	**11604**	$1,660.00

Secondary Case

Class 0

Set Range	Part #	Price
100 g - 1 mg	**34697**	$240.00
100 g - 1 mg	**49503**	$265.00

Secondary Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
100 g - 1 mg	**11588**	$190.00
100 g - 1 mg	**11596**	$190.00

Insert

Wooden

Set Range	Part #	Price
100 g	**46380**	$130.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar, large handle	**11712**	$77.00
Tong assembly, Class 0	**50000**	$78.00
Lifter (Class 0 and OIML 2 kg and 5 kg)	**50037**	$57.00

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 3 kg and 5 kg

Class 0

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate
			Accredited
5 kg - 1 mg	**45910**	$12,075.00	Included
5 kg - 100 mg	**45911**	$11,375.00	Included
5 kg - 1 g	**45912**	$9,900.00	Included
5 kg - 100 g	**45913**	$8,325.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
3 kg - 1 g	**11887**	$4,725.00	$1,008.00	$540.75
5 kg - 1 mg	**12481**	$6,300.00	$1,470.00	$882.00
5 kg - 1 mg*	**114050**	$6,300.00	$1,470.00	$882.00
5 kg - 100 mg	**45988**	$5,975.00	$1,286.25	$803.25
5 kg - 1 g	**12484**	$5,600.00	$1,128.75	$666.75
5 kg - 1 g*	**11886**	$5,600.00	$1,128.75	$666.75
5 kg - 100 g	**45992**	$5,175.00	$792.75	$420.00

Class 2

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
3 kg - 1 g	**12147**	$4,050.00	$1,008.00	$598.50
5 kg - 1 mg	**11930**	$5,600.00	$1,470.00	$882.00
5 kg - 1 mg*	**114051**	$5,600.00	$1,470.00	$882.00
5 kg - 100 mg	**45989**	$5,550.00	$1,286.25	$803.25
5 kg - 1 g	**11933**	$5,125.00	$1,128.75	$666.75
5 kg - 1 g*	**12146**	$5,125.00	$1,128.75	$666.75
5 kg - 100 g	**45993**	$4,700.00	$792.75	$420.00

Class 3

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
3 kg - 1 g	**12286**	$4,025.00	$1,008.00	$598.50
5 kg - 1 mg	**12078**	$5,500.00	$1,470.00	$882.00
5 kg - 1 mg*	**114052**	$5,500.00	$1,470.00	$882.00
5 kg - 100 mg	**45990**	$5,350.00	$1,286.25	$803.25
5 kg - 1 g	**12081**	$5,125.00	$1,128.75	$666.75
5 kg - 1 g*	**12285**	$5,100.00	$1,128.75	$666.75
5 kg - 100 g	**45994**	$4,675.00	$792.75	$420.00

Class 4

Set Range	Part #	Price	Optional Certificate
			Accredited
3 kg - 1 g	**12389**	$3,600.00	$467.25
5 kg - 1 mg	**12224**	$4,975.00	$819.00
5 kg - 1 mg*	**114053**	$4,975.00	$546.00
5 kg - 100 mg	**45991**	$4,850.00	$619.50
5 kg - 1 g	**12227**	$4,425.00	$514.50
5 kg - 1 g*	**12388**	$4,425.00	$829.50
5 kg - 100 g	**45995**	$4,050.00	$315.00

** 5-2-2-1 configuration*



Set Includes Lifting Device, Glove and Case (3 kg to 1 g)

Replacement Cases

Main Cases

Class 0

Set Range	Part #	Price
5 kg - 1 mg	**49495**	$1,950.00
5 kg - 100 mg	**49495**	$1,950.00
5 kg - 1 g	**49495**	$1,950.00
5 kg - 100 g	**50440**	$1,870.00

Main Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
3 kg - 1 g	**11582**	$1,660.00
5 kg - 1 mg	**11605**	$1,660.00
5 kg - 1 mg	**11581**	$1,660.00
5 kg - 100 mg	**11605**	$1,660.00
5 kg - 1 g	**11605**	$1,660.00
5 kg - 1 g	**11581**	$1,660.00
5 kg - 100 g	**11605**	$1,660.00

Secondary Case

Class 0

Set Range	Part #	Price
100 g - 1 mg	**49503**	$265.00

Secondary Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
100 g - 1 mg	**11588**	$190.00
100 g - 1 mg	**11596**	$190.00

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Range: 3 kg and 5 kg

Weight Set Contents

		5-2-2-1			5-2-2-1	
3 kg - 1 g	**5 kg - 1 mg**	**5 kg - 1 mg**	**5 kg - 100 mg**	**5 kg - 1 g**	**5 kg - 1 g**	**5 kg - 100 g**
–	**45910** Class 0	–	**45911** Class 0	**45912** Class 0	–	**45913** Class 0
11887 Class 1	**12481** Class 1	**114050** Class 1	**45988** Class 1	**12484** Class 1	**11886** Class 1	**45992** Class 1
12147 Class 2	**11930** Class 2	**114051** Class 2	**45989** Class 2	**11933** Class 2	**12146** Class 2	**45993** Class 2
12286 Class 3	**12078** Class 3	**114052** Class 3	**45990** Class 3	**12081** Class 3	**12285** Class 3	**45994** Class 3
12389 Class 4	**12224** Class 4	**114053** Class 4	**45991** Class 4	**12227** Class 4	**12388** Class 4	**45995** Class 4
–	(1) 5 kg	(1) 5 kg	(1) 5 kg	(1) 5 kg	(1) 5 kg	(1) 5 kg
(1) 3 kg	(1) 3 kg	–	(1) 3 kg	(1) 3 kg	–	(1) 3 kg
(1) 2 kg	(1) 2 kg	(2) 2 kg	(1) 2 kg	(1) 2 kg	(2) 2 kg	(1) 2 kg
(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg
(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g
(1) 300 g	(1) 300 g	–	(1) 300 g	(1) 300 g	–	(1) 300 g
(1) 200 g	(1) 200 g	(2) 200 g	(1) 200 g	(1) 200 g	(2) 200 g	(1) 200 g
(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g
(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	
(1) 30 g	(1) 30 g	–	(1) 30 g	(1) 30 g	–	
(1) 20 g	(1) 20 g	(2) 20 g	(1) 20 g	(1) 20 g	(2) 20 g	
(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	
(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	
(1) 3 g	(1) 3 g	–	(1) 3 g	(1) 3 g	–	
(1) 2 g	(1) 2 g	(2) 2 g	(1) 2 g	(1) 2 g	(2) 2 g	
(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	
	(1) 500 mg	(1) 500 mg	(1) 500 mg			
	(1) 300 mg	–	(1) 300 mg			
	(1) 200 mg	(2) 200 mg	(1) 200 mg			
	(1) 100 mg	(1) 100 mg	(1) 100 mg			
	(1) 50 mg	(1) 50 mg				
	(1) 30 mg	–				
	(1) 20 mg	(2) 20 mg				
	(1) 10 mg	(1) 10 mg				
	(1) 5 mg	(1) 5 mg				
	(1) 3 mg	–				
	(1) 2 mg	(2) 2 mg				
	(1) 1 mg	(1) 1 mg				
15 pcs. **7.221 kg set wt.**	**28 pcs.** **12.222221 kg set wt.**	**28 pcs.** **12.23 kg set wt.**	**20 pcs.** **12.22 kg set wt.**	**16 pcs.** **12.221 kg set wt.**	**16 pcs.** **11.110 kg set wt.**	**8 pcs.** **12.1 kg set wt.**

Insert		
PVC Insert for Wooden Case		
Set Range	**Part #**	**Price**
100 g	**46380**	$130.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar, large handle	**11712**	$77.00
Tong assembly, Class 0	**50000**	$78.00
Lifter (Class 0 and OIML 2 kg and 5 kg)	**50037**	$57.00

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 10 kg

Class 0

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
10 kg - 1 mg	**45905**	$15,725.00	Included
10 kg - 100 mg	**45906**	$14,925.00	Included
10 kg - 1 g	**45907**	$12,750.00	Included
10 kg - 100 g	**45908**	$12,650.00	Included
10 kg - 1 kg	**45909**	$9,975.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
10 kg - 1 mg	**12485**	$8,925.00	$1,575.00	$945.00
10 kg - 100 mg	**45996**	$8,800.00	$1,391.25	$861.00
10 kg - 1 g	**12488**	$8,350.00	$1,239.00	$724.50
10 kg - 1 g*	**11885**	$8,350.00	$1,239.00	$724.50
10 kg - 100 g	**46000**	$8,275.00	$913.50	$462.00
10 kg - 1 kg	**46004**	$6,800.00	$556.50	$294.00

Class 2

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
10 kg - 1 mg	**11934**	$8,575.00	$1,575.00	$945.00
10 kg - 100 mg	**45997**	$8,400.00	$1,391.25	$861.00
10 kg - 1 g	**11937**	$8,325.00	$1,239.00	$724.50
10 kg - 1 g*	**12144**	$8,275.00	$1,239.00	$724.50
10 kg - 100 g	**46001**	$7,775.00	$913.50	$462.00
10 kg - 1 kg	**46005**	$6,975.00	$556.50	$294.00

Class 3

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
10 kg - 1 mg	**12082**	$8,500.00	$1,575.00	$945.00
10 kg - 100 mg	**45998**	$8,300.00	$1,391.25	$861.00
10 kg - 1 g	**12085**	$8,175.00	$1,239.00	$724.50
10 kg - 1 g*	**12283**	$8,175.00	$1,239.00	$724.50
10 kg - 100 g	**46002**	$7,675.00	$913.50	$462.00
10 kg - 1 kg	**46006**	$6,900.00	$556.50	$294.00

Class 4

Set Range	Part #	Price	Optional Certificate Accredited
10 kg - 1 mg	**12228**	$7,625.00	$871.50
10 kg - 100 mg	**45999**	$7,500.00	$672.00
10 kg - 1 g	**12231**	$7,400.00	$561.75
10 kg - 1 g*	**12386**	$7,400.00	$561.75
10 kg - 100 g	**46003**	$6,925.00	$367.50
10 kg - 1 kg	**46007**	$6,175.00	$262.50

** 5-2-2-1 configuration*



Set Includes Lifting Device, Glove and Case (10 kg to 1 mg)

Replacement Cases

Main Cases

Class 0

Set Range	Part #	Price
10 kg - 1 mg	**50442**	$2,270.00
10 kg - 100 mg	**50442**	$2,270.00
10 kg - 1 g	**50442**	$2,270.00
10 kg - 100 g	**50442**	$2,270.00
10 kg - 1 kg	**50441**	$1,920.00

Main Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
10 kg - 1 mg	**11606**	$2,240.00
10 kg - 100 mg	**11606**	$2,240.00
10 kg - 1 g	**11606**	$2,240.00
10 kg - 1 g	**11580**	$2,240.00
10 kg - 100 g	**11606**	$2,240.00
10 kg - 1 kg	**11606**	$2,240.00

Secondary Case

Class 0

Set Range	Part #	Price
100 g - 1 mg*	**11588**	$190.00
100 g - 1 mg	**49503**	$265.00
Insert, 100 g	**49489**	$170.00

Secondary Case

Class 1, 2, 3 and 4

Set Range	Part #	Price
100 g - 1 mg*	**11588**	$190.00
100 g - 1 mg	**11596**	$190.00
Insert, 100 g	**46380**	$130.00

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Range: 10 kg

Weight Set Contents

5-2-2-1

10 kg - 1 mg	10 kg - 100 mg	10 kg - 1 g	10 kg - 1 g	10 kg - 100 g	10 kg - 1 kg
45905 Class 0 **12485** Class 1 **11934** Class 2 **12082** Class 3 **12228** Class 4	**45906** Class 0 **45996** Class 1 **45997** Class 2 **45998** Class 3 **45999** Class 4	**45907** Class 0 **12488** Class 1 **11937** Class 2 **12085** Class 3 **12231** Class 4	**11885** Class 1 **12144** Class 2 **12283** Class 3 **12386** Class 4 –	**45908** Class 0 **46000** Class 1 **46001** Class 2 **46002** Class 3 **46003** Class 4	**45909** Class 0 **46004** Class 1 **46005** Class 2 **46006** Class 3 **46007** Class 4
(1) 10 kg	(1) 10 kg	(1) 10 kg	(1) 10 kg	(1) 10 kg	(1) 10 kg
(1) 5 kg	(1) 5 kg	(1) 5 kg	(1) 5 kg	(1) 5 kg	(1) 5 kg
(1) 3 kg	(1) 3 kg	(1) 3 kg	–	(1) 3 kg	(1) 3 kg
(1) 2 kg	(1) 2 kg	(1) 2 kg	(2) 2 kg	(1) 2 kg	(1) 2 kg
(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg
(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	
(1) 300 g	(1) 300 g	(1) 300 g	–	(1) 300 g	
(1) 200 g	(1) 200 g	(1) 200 g	(2) 200 g	(1) 200 g	
(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	
(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g		
(1) 30 g	(1) 30 g	(1) 30 g	–		
(1) 20 g	(1) 20 g	(1) 20 g	(2) 20 g		
(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g		
(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g		
(1) 3 g	(1) 3 g	(1) 3 g	–		
(1) 2 g	(1) 2 g	(1) 2 g	(2) 2 g		
(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g		
(1) 500 mg	(1) 500 mg				
(1) 300 mg	(1) 300 mg				
(1) 200 mg	(1) 200 mg				
(1) 100 mg	(1) 100 mg				
(1) 50 mg					
(1) 30 mg					
(1) 20 mg					
(1) 10 mg					
(1) 5 mg					
(1) 3 mg					
(1) 2 mg					
(1) 1 mg					
29 pcs. **22.222221 kg set wt.**	**21 pcs.** **22.2221 kg set wt.**	**17 pcs.** **22.221 kg set wt.**	**17 pcs.** **21.11 kg set wt.**	**9 pcs.** **22.1 kg set wt.**	**5 pcs.** **21 kg set wt.**

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar, large handle	**11712**	$77.00
Tong assembly, Class 0	**50000**	$78.00
Lifter (Class 0 and OIML 2 kg and 5 kg)	**50037**	$57.00

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 20 kg and 25 kg

Class 0

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
20 kg - 1 mg	**45900**	$19,975.00	Included
20 kg - 100 mg	**45901**	$19,150.00	Included
20 kg - 1 g	**45902**	$17,075.00	Included
20 kg - 100 g	**45903**	$16,850.00	Included
20 kg - 1 kg	**45904**	$14,625.00	Included

Class 1

Set Range	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-accredited
25 kg - 1 g*	**11883**	$16,750.00	$1,464.75	$855.75
20 kg - 1 mg	**12489**	$12,300.00	$1,764.00	$1,076.25
20 kg - 100 mg	**46008**	$12,200.00	$1,517.25	$929.25
20 kg - 1 g	**12492**	$11,400.00	$1,349.25	$798.00
20 kg - 1 g*	**11884**	$11,400.00	$1,349.25	$798.00
20 kg - 100 g	**46012**	$10,775.00	$1,023.75	$525.00
20 kg - 1 kg	**46016**	$10,575.00	$677.25	$357.00

Class 2

Set Range	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-accredited
25 kg - 1 g*	**12140**	$15,100.00	$1,464.75	$855.75
20 kg - 1 mg	**11938**	$11,175.00	$1,764.00	$1,076.25
20 kg - 100 mg	**46009**	$10,975.00	$1,517.25	$929.25
20 kg - 1 g	**11941**	$10,875.00	$1,349.25	$798.00
20 kg - 1 g*	**12142**	$10,875.00	$1,349.25	$798.00
20 kg - 100 g	**46013**	$10,350.00	$1,023.75	$525.00
20 kg - 1 kg	**46017**	$9,550.00	$677.25	$357.00

Class 3

Set Range	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-accredited
25 kg - 1 g*	**12279**	$14,525.00	$1,464.75	$855.75
20 kg - 1 mg	**12086**	$11,075.00	$1,764.00	$1,076.25
20 kg - 100 mg	**46010**	$10,875.00	$1,517.25	$929.25
20 kg - 1 g	**12089**	$10,750.00	$1,349.25	$798.00
20 kg - 1 g*	**12281**	$10,750.00	$1,349.25	$798.00
20 kg - 100 g	**46014**	$10,225.00	$1,023.75	$525.00
20 kg - 1 kg	**46018**	$9,225.00	$677.25	$357.00

Class 4

Set Range	Part #	Price	Optional Certificate Accredited
25 kg - 1 g*	**12382**	$13,575.00	$619.50
20 kg - 1 mg	**12232**	$9,950.00	$945.00
20 kg - 100 mg	**46011**	$9,775.00	$714.00
20 kg - 1 g	**12235**	$9,700.00	$640.50
20 kg - 1 g*	**12384**	$9,700.00	$640.50
20 kg - 100 g	**46015**	$9,225.00	$414.75
20 kg - 1 kg	**46019**	$8,500.00	$283.50

** 5-2-2-1 configuration*



Set Includes Lifting Device, Glove and Case (20 kg to 1 mg)

Replacement Cases

Main Cases		
Class 0		
Set Range	**Part #**	**Price**
20 kg - 1 mg	**50670**	$2,270.00
20 kg - 100 mg	**50670**	$2,270.00
20 kg - 1 g	**50670**	$2,270.00
20 kg - 100 g	**50670**	$2,270.00
20 kg - 1 kg	**50670**	$2,270.00

Main Case		
Class 1, 2, 3 and 4		
Set Range	**Part #**	**Price**
25 kg - 1 g*	**11578**	$2,240.00
20 kg - 1 mg	**11608**	$2,240.00
20 kg - 100 mg	**11608**	$2,240.00
20 kg - 1 g	**11608**	$2,240.00
20 kg - 1 g*	**11579**	$2,190.00
20 kg - 100 g	**11608**	$2,240.00
20 kg - 1 kg	**11608**	$2,240.00

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Range: 20 kg and 25 kg

Weight Set Contents

5-2-2-1				5-2-2-1		
25 kg - 1 g	**20 kg - 1 mg**	**20 kg - 100 mg**	**20 kg - 1 g**	**20 kg - 1 g**	**20 kg - 100 g**	**20 - 1 kg**
–	**45900** Class 0	**45901** Class 0	**45902** Class 0	–	**45903** Class 0	**45904** Class 0
11883 Class 1	**12489** Class 1	**46008** Class 1	**12492** Class 1	**11884** Class 1	**46012** Class 1	**46016** Class 1
12140 Class 2	**11938** Class 2	**46009** Class 2	**11941** Class 2	**12142** Class 2	**46013** Class 2	**46017** Class 2
12279 Class 3	**12086** Class 3	**46010** Class 3	**12089** Class 3	**12281** Class 3	**46014** Class 3	**46018** Class 3
12382 Class 4	**12232** Class 4	**46011** Class 4	**12235** Class 4	**12384** Class 4	**46015** Class 4	**46019** Class 4
(1) 25 kg	–	–	–	–	–	–
–	(1) 20 kg	(1) 20 kg	(1) 20 kg	(1) 20 kg	(1) 20 kg	(1) 20 kg
(1) 10 kg	(1) 10 kg	(1) 10 kg	(1) 10 kg	(1) 10 kg	(1) 10 kg	(1) 10 kg
(1) 5 kg	(1) 5 kg	(1) 5 kg	(1) 5 kg	(1) 5 kg	(1) 5 kg	(1) 5 kg
–	(1) 3 kg	(1) 3 kg	(1) 3 kg	–	(1) 3 kg	(1) 3 kg
(2) 2 kg	(1) 2 kg	(1) 2 kg	(1) 2 kg	(2) 2 kg	(1) 2 kg	(1) 2 kg
(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg
(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	
–	(1) 300 g	(1) 300 g	(1) 300 g	–	(1) 300 g	
(2) 200 g	(1) 200 g	(1) 200 g	(1) 200 g	(2) 200 g	(1) 200 g	
(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	
(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g		
–	(1) 30 g	(1) 30 g	(1) 30 g	–		
(2) 20 g	(1) 20 g	(1) 20 g	(1) 20 g	(2) 20 g		
(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g		
(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g		
–	(1) 3 g	(1) 3 g	(1) 3 g	–		
(2) 2 g	(1) 2 g	(1) 2 g	(1) 2 g	(2) 2 g		
(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g		
	(1) 500 mg	(1) 500 mg				
	(1) 300 mg	(1) 300 mg				
	(1) 200 mg	(1) 200 mg				
	(1) 100 mg	(1) 100 mg				
	(1) 50 mg					
	(1) 30 mg					
	(1) 20 mg					
	(1) 10 mg					
	(1) 5 mg					
	(1) 3 mg					
	(1) 2 mg					
	(1) 1 mg					
18 pcs. **46.11 kg set wt.**	**30 pcs.** **42.222221 kg set wt.**	**22 pcs.** **42.22 kg set wt.**	**18 pcs.** **42.22 kg set wt.**	**18 pcs.** **41.11 kg set wt.**	**10 pcs.** **42.1 kg set wt.**	**6 pcs.** **41 kg set wt.**

Secondary Case		
Class 0		
Set Range	**Part #**	**Price**
100 g - 1 mg*	**11588**	$190.00
100 g - 1 mg	**49503**	$265.00
Insert, 100 g	**49489**	$170.00

** 5-2-2-1 configuration*

Secondary Case		
Class 1, 2, 3 and 4		
Set Range	**Part #**	**Price**
100 g - 1 mg*	**11588**	$190.00
100 g - 1 mg	**11596**	$190.00
Insert, 100 g	**46380**	$130.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar, large handle	**11712**	$77.00
Tong assembly, Class 0	**50000**	$78.00
Lifter (Class 0 and OIML 2 kg and 5 kg)	**50037**	$57.00

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MASS REFERENCE STANDARDS / AVOIRDUPOIS SETS

Range: 2 lb through 50 lb

Class 1

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
50 lb - 1/32 oz	**11999**	$21,875.00	$1,323.00	$840.00
50 lb - 0.001 lb	**119043**	$21,875.00	$1,323.00	$840.00
20 lb - 1/32 oz	**11997**	$10,475.00	$997.50	$703.50
20 lb - 0.001 lb	**119047**	$10,475.00	$997.50	$703.50
10 lb - 1/32 oz	**11995**	$7,325.00	$871.50	$630.00
10 lb - 0.001 lb	**119051**	$7,325.00	$871.50	$630.00
5 lb - 1/32 oz	**11993**	$5,600.00	$761.25	$556.50
5 lb - 0.001 lb	**119055**	$5,600.00	$761.25	$556.50
2 lb - 1/32 oz	**11991**	$3,750.00	$572.25	$435.75
2 lb - 0.001 lb	**119059**	$3,750.00	$572.25	$435.75

Class 2

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
50 lb - 1/32 oz	**12145**	$21,650.00	$1,323.00	$840.00
50 lb - 0.001 lb	**119044**	$21,650.00	$1,323.00	$840.00
20 lb - 1/32 oz	**12143**	$10,475.00	$997.50	$703.50
20 lb - 0.001 lb	**119048**	$10,475.00	$997.50	$703.50
10 lb - 1/32 oz	**12141**	$7,325.00	$871.50	$630.00
10 lb - 0.001 lb	**119052**	$7,125.00	$871.50	$630.00
5 lb - 1/32 oz	**12139**	$5,400.00	$761.25	$556.50
5 lb - 0.001 lb	**119056**	$5,400.00	$761.25	$556.50
2 lb - 1/32 oz	**12137**	$3,575.00	$572.25	$435.75
2 lb - 0.001 lb	**119060**	$3,575.00	$572.25	$435.75

Class 3

Set Range	Part #	Price	Optional Certificate	
			Accredited	Non-accredited
50 lb - 1/32 oz	**12284**	$21,350.00	$1,323.00	$840.00
50 lb - 0.001 lb	**119045**	$21,350.00	$1,323.00	$840.00
20 lb - 1/32 oz	**12282**	$10,250.00	$997.50	$703.50
20 lb - 0.001 lb	**119049**	$10,450.00	$997.50	$703.50
10 lb - 1/32 oz	**12280**	$7,025.00	$871.50	$600.00
10 lb - 0.001 lb	**119053**	$7,025.00	$871.50	$630.00
5 lb - 1/32 oz	**12278**	$5,350.00	$761.25	$556.50
5 lb - 0.001 lb	**119057**	$5,350.00	$761.25	$556.50
2 lb - 1/32 oz	**12276**	$3,400.00	$572.25	$435.75
2 lb - 0.001 lb	**119061**	$3,400.00	$572.25	$435.75

Class 4

Set Range	Part #	Price	Optional Certificate
			Accredited
50 lb - 1/32 oz	**12387**	$20,825.00	$635.25
50 lb - 0.001 lb	**119046**	$20,825.00	$635.25
20 lb - 1/32 oz	**12385**	$9,625.00	$525.00
20 lb - 0.001 lb	**119050**	$9,625.00	$525.00
10 lb - 1/32 oz	**12383**	$6,925.00	$488.25
10 lb - 0.001 lb	**119054**	$6,925.00	$488.25
5 lb - 1/32 oz	**12381**	$4,825.00	$430.50
5 lb - 0.001 lb	**119058**	$4,825.00	$430.50
2 lb - 1/32 oz	**12379**	$3,125.00	$341.25
2 lb - 0.001 lb	**119062**	$3,125.00	$341.25



Set Includes Lifting Device, Glove and Case (10 lb to 1/32 oz)

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Range: 2 lb through 50 lb

Weight Set Contents

50 lb - 1/32 oz	50 lb - 0.001 lb	20 lb - 1/32 oz	20 lb - 0.001 lb	10 lb - 1/32 oz	10 lb - 0.001 lb	5 lb - 1/32 oz	5 lb - 0.001 lb	2 lb - 1/32 oz	2 lb - 0.001 lb
11999 Class 1 **12145** Class 2 **12284** Class 3 **12387** Class 4	**119043** Class 1 **119044** Class 2 **119045** Class 3 **119046** Class 4	**11997** Class 1 **12143** Class 2 **12282** Class 3 **12385** Class 4	**119047** Class 1 **119048** Class 2 **119049** Class 3 **119050** Class 4	**11995** Class 1 **12141** Class 2 **12280** Class 3 **12383** Class 4	**119051** Class 1 **119052** Class 2 **119053** Class 3 **119054** Class 4	**11993** Class 1 **12139** Class 2 **12278** Class 3 **12381** Class 4	**119055** Class 1 **119056** Class 2 **119057** Class 3 **119058** Class 4	**11991** Class 1 **12137** Class 2 **12276** Class 3 **12379** Class 4	**119059** Class 1 **119060** Class 2 **119061** Class 3 **119062** Class 4
(1) 50 lb	(1) 50 lb	–	–	–	–	–	–	–	–
(1) 30 lb	(1) 30 lb	–	–	–	–	–	–	–	–
(1) 20 lb	(1) 20 lb	(1) 20 lb	(1) 20 lb	–	–	–	–	–	–
(1) 10 lb	(1) 10 lb	(1) 10 lb	(1) 10 lb	(1) 10 lb	(1) 10 lb	–	–	–	–
(1) 5 lb	(1) 5 lb	(1) 5 lb	(1) 5 lb	(1) 5 lb	(1) 5 lb	(1) 5 lb	(1) 5 lb	–	–
(1) 3 lb	(1) 3 lb	(1) 3 lb	(1) 3 lb	(1) 3 lb	(1) 3 lb	(1) 3 lb	(1) 3 lb	–	–
(1) 2 lb	(1) 2 lb	(1) 2 lb	(1) 2 lb	(1) 2 lb	(1) 2 lb	(1) 2 lb	(1) 2 lb	(1) 2 lb	(1) 2 lb
(1) 1 lb	(1) 1 lb	(1) 1 lb	(1) 1 lb	(1) 1 lb	(1) 1 lb	(1) 1 lb	(1) 1 lb	(1) 1 lb	(1) 1 lb
(1) 8 oz	(1) 0.5 lb	(1) 8 oz	(1) 0.5 lb	(1) 8 oz	(1) 0.5 lb	(1) 8 oz	(1) 0.5 lb	(1) 8 oz	(1) 0.5 lb
(1) 4 oz	(1) 0.3 lb	(1) 4 oz	(1) 0.3 lb	(1) 4 oz	(1) 0.3 lb	(1) 4 oz	(1) 0.3 lb	(1) 4 oz	(1) 0.3 lb
(1) 2 oz	(1) 0.2 lb	(1) 2 oz	(1) 0.2 lb	(1) 2 oz	(1) 0.2 lb	(1) 2 oz	(1) 0.2 lb	(1) 2 oz	(1) 0.2 lb
(1) 1 oz	(1) 0.1 lb	(1) 1 oz	(1) 0.1 lb	(1) 1 oz	(1) 0.1 lb	(1) 1 oz	(1) 0.1 lb	(1) 1 oz	(1) 0.1 lb
(1) 1/2 oz	(1) 0.05 lb	(1) 1/2 oz	(1) 0.05 lb	(1) 1/2 oz	(1) 0.05 lb	(1) 1/2 oz	(1) 0.05 lb	(1) 1/2 oz	(1) 0.05 lb
(1) 1/4 oz	(1) 0.03 lb	(1) 1/4 oz	(1) 0.03 lb	(1) 1/4 oz	(1) 0.03 lb	(1) 1/4 oz	(1) 0.03 lb	(1) 1/4 oz	(1) 0.03 lb
(1) 1/8 oz	(1) 0.02 lb	(1) 1/8 oz	(1) 0.02 lb	(1) 1/8 oz	(1) 0.02 lb	(1) 1/8 oz	(1) 0.02 lb	(1) 1/8 oz	(1) 0.02 lb
(1) 1/16 oz	(1) 0.01 lb	(1) 1/16 oz	(1) 0.01 lb	(1) 1/16 oz	(1) 0.01 lb	(1) 1/16 oz	(1) 0.01 lb	(1) 1/16 oz	(1) 0.01 lb
(2) 1/32 oz	(1) 0.005 lb	(2) 1/32 oz	(1) 0.005 lb	(2) 1/32 oz	(1) 0.005 lb	(2) 1/32 oz	(1) 0.005 lb	(2) 1/32 oz	(1) 0.005 lb
	(1) 0.003 lb		(1) 0.003 lb		(1) 0.003 lb		(1) 0.003 lb		(1) 0.003 lb
	(1) 0.002 lb		(1) 0.002 lb		(1) 0.002 lb		(1) 0.002 lb		(1) 0.002 lb
	(1) 0.001 lb		(1) 0.001 lb		(1) 0.001 lb		(1) 0.001 lb		(1) 0.001 lb
18 pcs. **122 lb set wt.**	**20 pcs.** **122 lb set wt.**	**16 pcs.** **42 lb set wt.**	**18 pcs.** **42 lb set wt.**	**15 pcs.** **22 lb set wt.**	**17 pcs.** **22 lb set wt.**	**14 pcs.** **12 lb set wt.**	**16 pcs.** **12 lb set wt.**	**12 pcs.** **4 lb set wt.**	**14 pcs.** **4 lb set wt.**

Replacement Cases

Main Cases		
Class 1, 2, 3 and 4		
Set Range	**Part #**	**Price**
50 lb - 1/32 oz	**11589**	$2,240.00
50 lb - 0.001 lb	**11589**	$2,240.00
20 lb - 1/32 oz	**11590**	$2,400.00
20 lb - 0.001 lb	**11590**	$2,400.00
10 lb - 1/32 oz	**11591**	$1,920.00
10 lb - 0.001 lb	**11591**	$1,920.00
5 lb - 1/32 oz	**11592**	$1,490.00
5 lb - 0.001 lb	**11592**	$1,490.00
2 lb - 1/32 oz	**11593**	$1,940.00
2 lb - 0.001 lb	**11593**	$1,940.00

Secondary Case		
Class 1, 2, 3 and 4		
Set Range	**Part #**	**Price**
4 oz - 1/32 oz	**11610**	$330.00
0.3 lb to 0.001 lb	**118813**	$310.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Lifter bar	**11747**	$22.25
Lifter bar, large handle	**11712**	$77.00
Tong assembly, Class 0	**50000**	$78.00
Lifter (Class 0 and OIML 2 kg and 5 kg)	**50037**	$57.00

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MASS REFERENCE STANDARDS / METRIC SINGLE WEIGHT WITH CASE (KITS)

Range: 20 kg – 1 g

Class E1 Polished Finish

Statement of Accuracy not available.

Weight	Part #	Price	Certificate Accredited
10 kg	**36872**	$3,825.00	Included
5 kg	**29785**	$2,525.00	Included
2 kg	**29784**	$1,810.00	Included
1 kg	**29783**	$1,220.00	Included
500 g	**29782**	$905.00	Included
200 g	**29781**	$780.00	Included
100 g	**29780**	$725.00	Included
50 g	**29779**	$650.00	Included
20 g	**29778**	$645.00	Included
10 g	**29777**	$640.00	Included
5 g	**29776**	$575.00	Included
2 g	**29745**	$575.00	Included
1 g	**29744**	$550.00	Included

Class E2 Polished Finish

Statement of Accuracy not available.

Weight	Part #	Price	Certificate Accredited
20 kg	**53850**	$3,425.00	Included
10 kg	**36871**	$2,825.00	Included
5 kg	**29775**	$1,580.00	Included
2 kg	**29774**	$995.00	Included
1 kg	**29773**	$745.00	Included
500 g	**29772**	$515.00	Included
200 g	**29771**	$450.00	Included
100 g	**29770**	$200.00	Included
50 g	**29769**	$195.00	Included
20 g	**29768**	$195.00	Included
10 g	**29767**	$185.00	Included
5 g	**29766**	$160.00	Included
2 g	**29743**	$160.00	Included
1 g	**29742**	$160.00	Included

Class F1 Polished Finish

Weight	Part #	Price	Optional Certificate Accredited	Non-accredited
20 kg	**53654**	$2,525.00	$152.25	$84.00
10 kg	**36870**	$2,040.00	$152.25	$84.00
5 kg	**29765**	$1,230.00	$152.25	$84.00
2 kg	**29764**	$720.00	$152.25	$84.00
1 kg	**29763**	$510.00	$131.25	$63.00
500 g	**29762**	$295.00	$131.25	$63.00
200 g	**29761**	$235.00	$131.25	$63.00
100 g	**29760**	$165.00	$57.75	$47.25
50 g	**29759**	$145.00	$57.75	$47.25
20 g	**29758**	$145.00	$57.75	$47.25
10 g	**29757**	$145.00	$57.75	$47.25
5 g	**29756**	$145.00	$57.75	$47.25
2 g	**29741**	$145.00	$57.75	$47.25
1 g	**29740**	$145.00	$57.75	$47.25

Class F2 Polished Finish

Weight	Part #	Price	Optional Certificate Accredited	Non-accredited
20 kg	**53655**	$2,410.00	$152.25	$84.00
10 kg	**36869**	$1,580.00	$152.25	$84.00
5 kg	**29755**	$860.00	$152.25	$84.00
2 kg	**29754**	$680.00	$152.25	$84.00
1 kg	**29753**	$440.00	$131.25	$63.00
500 g	**29752**	$295.00	$131.25	$63.00
200 g	**29751**	$230.00	$131.25	$63.00
100 g	**29750**	$140.00	$57.75	$47.25
50 g	**29749**	$140.00	$57.75	$47.25
20 g	**29748**	$140.00	$57.75	$47.25
10 g	**29747**	$140.00	$57.75	$47.25
5 g	**29746**	$140.00	$57.75	$47.25
2 g	**29739**	$140.00	$57.75	$47.25
1 g	**29738**	$140.00	$57.75	$47.25



Kits Include Glove with Cased Weight

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Premium tweezer	**152414**	$45.50

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Range: 500 mg – 1 mg

Class E1 Polished Finish
Statement of Accuracy not available.

Weight	Part #	Price	Certificate Accredited
500 mg	**29737**	$310.00	Included
200 mg	**29736**	$310.00	Included
100 mg	**29735**	$310.00	Included
50 mg	**29734**	$310.00	Included
20 mg	**29733**	$310.00	Included
10 mg	**29732**	$310.00	Included
5 mg	**29713**	$310.00	Included
2 mg	**29712**	$310.00	Included
1 mg	**29711**	$310.00	Included

Class E2 Polished Finish
Statement of Accuracy not available.

Weight	Part #	Price	Certificate Accredited
500 mg	**29731**	$160.00	Included
200 mg	**29730**	$160.00	Included
100 mg	**29729**	$160.00	Included
50 mg	**29728**	$160.00	Included
20 mg	**29727**	$160.00	Included
10 mg	**29726**	$160.00	Included
5 mg	**29710**	$160.00	Included
2 mg	**29709**	$160.00	Included
1 mg	**29708**	$160.00	Included

Class F1 Polished Finish

Weight	Part #	Price	Optional Certificate Accredited	Non-Accredited
500 mg	**29725**	$57.00	$57.75	$47.25
200 mg	**29724**	$57.00	$57.75	$47.25
100 mg	**29723**	$57.00	$57.75	$47.25
50 mg	**29722**	$57.00	$57.75	$47.25
20 mg	**29721**	$57.00	$57.75	$47.25
10 mg	**29720**	$57.00	$57.75	$47.25
5 mg	**29707**	$57.00	$57.75	$47.25
2 mg	**29706**	$57.00	$57.75	$47.25
1 mg	**29705**	$57.00	$57.75	$47.25

Class F2 Polished Finish

Weight	Part #	Price	Optional Certificate Accredited	Accredited
500 mg	**29719**	$51.00	$57.75	$47.25
200 mg	**29718**	$51.00	$57.75	$47.25
100 mg	**29717**	$51.00	$57.75	$47.25
50 mg	**29716**	$51.00	$57.75	$47.25
20 mg	**29715**	$51.00	$57.75	$47.25
10 mg	**29714**	$51.00	$57.75	$47.25
5 mg	**29704**	$51.00	$57.75	$47.25
2 mg	**29703**	$51.00	$57.75	$47.25
1 mg	**29702**	$51.00	$57.75	$47.25


Kits Include a Single Weight with Vial

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Premium tweezer	**152414**	$45.50
Vial for mg weights	**50038**	$5.25

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Range: 20 kg – 1 mg

Class M1 Satin Finish

(case included)

Weight	Part #	Price	Optional Certificate Accredited
20 kg	**156292**	$1,530.00	$78.75
10 kg	**156291**	$1,310.00	$78.75
5 kg	**116207**	$595.00	$78.75
2 kg	**116206**	$340.00	$78.75
1 kg	**116205**	$240.00	$57.75
500 g	**116204**	$140.00	$57.75
200 g	**116203**	$125.00	$57.75
100 g	**111927**	$92.00	$42.00
50 g	**111928**	$87.00	$42.00
20 g	**111929**	$83.00	$42.00
10 g	**111930**	$83.00	$42.00
5 g	**111931**	$77.00	$42.00
2 g	**111932**	$77.00	$42.00
1 g	**111933**	$77.00	$42.00
500 mg	**202833**	$25.50	$42.00
200 mg	**202835**	$25.50	$42.00
100 mg	**202836**	$25.50	$42.00
50 mg	**202837**	$25.50	$42.00
20 mg	**202838**	$25.50	$42.00
10 mg	**202839**	$25.50	$42.00
5 mg	**202840**	$25.50	$42.00
2 mg	**202841**	$25.50	$42.00
1 mg	**202842**	$25.50	$42.00

Class M2 Satin Finish

M2 is sold as a single weight, accessory cases are available.

Weight	Part #	Price	Optional Certificate Accredited
5 kg	**115926**	$255.00	$78.75
2 kg	**115925**	$160.00	$78.75
1 kg	**115924**	$86.00	$57.75
500 g	**115923**	$79.00	$57.75
200 g	**115922**	$62.00	$57.75
100 g	**111934**	$54.00	$42.00
50 g	**111935**	$49.00	$42.00
20 g	**111936**	$43.50	$42.00
10 g	**111937**	$43.50	$42.00
5 g	**111938**	$39.50	$42.00
2 g	**111939**	$39.50	$42.00
1 g	**111940**	$39.50	$42.00





Premium Tweezer

Replacement Cases

Main Cases Class M1 Nominal Value	Part #	Price
20 kg	**156290**	$590.00
10 kg	**156289**	$590.00
5 kg	**225891**	Consult
2 kg	**190266**	$40.50
1 kg	**190262**	$40.50
500 g	**189711**	$40.50
200 g	**196466**	$39.50
100 g	**189566**	$44.50
50 g	**189487**	$44.50
20 g	**189477**	$44.50
10 g	**189351**	$44.50
5 g	**189240**	$44.50
2 g	**189236**	$44.50
1 g	**188285**	$44.50
500 mg	**50038**	$5.25
200 mg	**50038**	$5.25
100 mg	**50038**	$5.25
50 mg	**50038**	$5.25
20 mg	**50038**	$5.25
10 mg	**50038**	$5.25
5 mg	**50038**	$5.25
2 mg	**50038**	$5.25
1 mg	**50038**	$5.25

Replacement Cases

Main Cases Class M2 Nominal Value	Part #	Price
5 kg	**225892**	Consult
2 kg	**190266**	$40.50
1 kg	**190262**	$40.50
500 g	**189711**	$40.50
200 g	**196466**	$39.50
100 g	**189566**	$44.50
50 g	**189487**	$44.50
20 g	**189477**	$44.50
10 g	**189351**	$44.50
5 g	**189240**	$44.50
2 g	**189236**	$44.50
1 g	**188285**	$44.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Premium tweezer	**152414**	$45.50

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Range: 500 mg – 50 g

Class E1 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate: Accredited
500 mg - 1 mg	**30850**	$2,280.00	Included
500 mg - 100 mg	**30854**	$1,160.00	Included

Class E2 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate: Accredited
500 mg - 1 mg	**30851**	$1,560.00	Included
500 mg - 100 mg	**30855**	$990.00	Included
50 g - 1 mg	**96477**	$2,330.00	Included
50 g - 1 g	**96478**	$1,280.00	Included

Class F1 Polished Finish

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
500 mg - 1 mg	**30852**	$650.00	$493.50	$393.75
500 mg - 100 mg	**30856**	$475.00	$162.75	$131.25
50 g - 1 mg	**96479**	$1,260.00	$829.50	$661.50
50 g - 1 g	**96480**	$770.00	$325.50	$262.50

Class F2 Polished Finish

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
500 mg - 1 mg	**30853**	$645.00	$493.50	$393.75
500 mg - 100 mg	**30857**	$365.00	$162.75	$131.25
50 g - 1 mg	**96481**	$1,030.00	$829.50	$661.50
50 g - 1 g	**96482**	$755.00	$325.50	$262.50

Class M1 Satin Finish

Set Range	Part #	Price	Optional Certificate: Accredited
500 mg - 1 mg	**161537**	$475.00	$294.00

Weight Set Contents

500 mg - 1 mg	500 mg - 100 mg	50 g - 1 mg	50 g - 1 g
30850 Class E1 **30851** Class E2 **30852** Class F1 **30853** Class F2 **161537** Class M1	**30854** Class E1 **30855** Class E2 **30856** Class F1 **30857** Class F2 –	– **96477** Class E2 **96479** Class F1 **96481** Class F2 –	– **96478** Class E2 **96480** Class F1 **96482** Class F2 –
–	–	(1) 50 g	(1) 50 g
–	–	(2) 20 g	(2) 20 g
–	–	(1) 10 g	(1) 10 g
–	–	(1) 5 g	(1) 5 g
–	–	(2) 2 g	(2) 2 g
–	–	(1) 1 g	(1) 1 g
(1) 500 mg	(1) 500 mg	(1) 500 mg	
(2) 200 mg	(2) 200 mg	(2) 200 mg	
(1) 100 mg	(1) 100 mg	(1) 100 mg	
(1) 50 mg		(1) 50 mg	
(2) 20 mg		(2) 20 mg	
(1) 10 mg		(1) 10 mg	
(1) 5 mg		(1) 5 mg	
(2) 2 mg		(2) 2 mg	
(1) 1 mg		(1) 1 mg	
12 pcs. **1.11 g set wt.**	**4 pcs.** **1 g set wt.**	**20 pcs.** **111.11 g set wt.**	**8 pcs.** **108 g set wt.**

Replacement Cases

Main Case Class E1, E2, F1 and F2 Set Range	Part #	Price
500 mg - 1 mg	**34699**	$135.00
500 mg - 100 mg	**34699**	$135.00
50 g - 1 mg	**34697**	$240.00
50 g - 1 g	**34697**	$240.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Tong assembly, Class 0	**50000**	$78.00
Lifter (Class 0 and OIML 2 kg and 5 kg)	**50037**	$57.00



Set Includes Lifting Device, Glove and Case

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 100 g

Class E1 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
100 g - 1 mg	**30838**	$5,600.00	Included
100 g - 100 mg	**30842**	$4,400.00	Included
100 g - 1 g	**30846**	$3,625.00	Included

Class E2 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
100 g - 1 mg	**30839**	$2,575.00	Included
100 g - 100 mg	**30843**	$1,840.00	Included
100 g - 1 g	**30847**	$1,370.00	Included

Class F1 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
100 g - 1 mg	**30840**	$1,340.00	$871.50	$619.50
100 g - 100 mg	**30844**	$1,130.00	$535.50	$425.25
100 g - 1 g	**30848**	$880.00	$372.75	$294.00

Class F2 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
100 g - 1 mg	**30841**	$1,050.00	$871.50	$619.50
100 g - 100 mg	**30845**	$1,040.00	$535.50	$425.25
100 g - 1 g	**30849**	$840.00	$372.75	$294.00

Class M1 Satin Finish

Set Range	Part #	Price	Optional Certificate Accredited
100 g - 1 mg	**119561**	$1,000.00	$530.25
100 g - 1 g	**119560**	$695.00	$225.75

Replacement Cases

Main Cases Class E1, E2, F1 and F2 Set Range	Part #	Price
100 g - 1 mg	**34697**	$240.00
100 g - 100 mg	**34697**	$240.00
100 g - 1 g	**34697**	$240.00

Main Cases Class M1 Set Range	Part #	Price
100 g - 1 mg	**34697**	$240.00
100 g - 1 g	**34697**	$240.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50

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Range: 100 g

Weight Set Contents

100 g - 1 mg	100 g - 100 mg	100 g - 1 g
30838 Class E1 **30839** Class E2 **30840** Class F1 **30841** Class F2 **119561** Class M1	**30842** Class E1 **30843** Class E2 **30844** Class F1 **30845** Class F2 –	**30846** Class E1 **30847** Class E2 **30848** Class F1 **30849** Class F2 **119560** Class M1
(1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg (1) 50 mg (2) 20 mg (1) 10 mg (1) 5 mg (2) 2 mg (1) 1 mg	(1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg	(1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g
21 pcs. **211.11 g set wt.**	**13 pcs.** **211 g set wt.**	**9 pcs.** **210 g set wt.**



Set Includes Lifting Device, Glove and Case (100 g to 1 mg)

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 200 g

Class E1 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
(2) 200 g - 1 mg	**40546**	$6,000.00	Included
200 g - 100 mg	**40547**	$5,100.00	Included
200 g - 1 g	**40548**	$4,375.00	Included
200 g - 100 g	**40549**	$2,575.00	Included

Class E2 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
200 g - 1 mg	**40550**	$2,925.00	Included
(2) 200 g - 1 mg	**96468**	$3,275.00	Included
200 g - 100 mg	**40551**	$2,290.00	Included
200 g - 1 g	**40552**	$1,810.00	Included
(2) 200 g - 1 g	**96469**	$2,180.00	Included
(2) 200 g - 100 g	**40553**	$1,450.00	Included

Class F1 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
200 g - 1 mg	**40554**	$1,880.00	$976.50	$693.00
(2) 200 g - 1 mg	**96470**	$1,930.00	$1,071.00	$708.75
200 g - 100 mg	**40555**	$1,440.00	$640.50	$472.50
(2) 200 g - 1 g	**96471**	$1,300.00	$546.00	$388.50
200 g - 1 g	**40556**	$1,200.00	$546.00	$388.50
(2) 200 g - 100 g	**40557**	$820.00	$315.00	$162.75

Class F2 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
200 g - 1 mg	**40558**	$1,850.00	$976.50	$693.00
(2) 200 g - 1 mg	**96472**	$1,880.00	$1,071.00	$708.75
200 g - 100 mg	**40559**	$1,300.00	$640.50	$472.50
(2) 200 g - 1 g	**96473**	$1,230.00	$567.00	$388.50
200 g - 1 g	**40560**	$1,180.00	$472.50	$341.25
(2) 200 g - 100 g	**40561**	$815.00	$315.00	$162.75

Class M1 Satin Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
200 g - 1 mg	**195668**	Consult	Consult	Consult
200 g - 1 g	**195669**	Consult	Consult	Consult

Replacement Cases

Main Cases
Class E1

Set Range	Part #	Price
(2) 200 g - 1 mg	**34645**	$350.00
200 g - 100 mg	**34645**	$350.00
200 g - 1 g	**34645**	$350.00
200 g - 100 g	**34645**	$350.00

Main Cases
Class E2, F1 and F2

Set Range	Part #	Price
200 g - 1 mg	**34645**	$350.00
(2) 200 g - 1 mg	**34645**	$350.00
200 g - 100 mg	**34645**	$350.00
(2) 200 g - 1 g	**34645**	$350.00
200 g - 1 g	**34645**	$350.00
(2) 200 g - 100 g	**34645**	$350.00

Main Cases
Class M1

Set Range	Part #	Price
200 g - 1 mg	**Consult**	Consult
200 g - 1 g	**Consult**	Consult

Inserts
Class E1, E2, F1 and F2

Set Range	Part #	Price
200 g - 1 mg	**30607**	$220.00
(2) 200 g - 1 mg	**84473**	$420.00
(2) 200 g - 1 g	**84472**	$420.00
(2) 200 g - 100 g	**30608**	$415.00

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Range: 200 g

Weight Set Contents

200 g - 1 mg	(2) 200 g - 1 mg	200 g - 100 mg	200 g - 1 g	(2) 200 g - 1 g	(2) 200 g - 100 g
40550 Class E2 **40554** Class F1 **40558** Class F2 **195668** Class M1 –	**40546** Class E1 **96468** Class E2 **96470** Class F1 **96472** Class F2 –	**40547** Class E1 **40551** Class E2 **40555** Class F1 **40559** Class F2 –	**40548** Class E1 **40552** Class E2 **40556** Class F1 **40560** Class F2 **195669** Class M1	– **96469** Class E2 **96471** Class F1 **96473** Class F2 –	**40549** Class E1 **40553** Class E2 **40557** Class F1 **40561** Class F2 –
(1) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg (1) 50 mg (2) 20 mg (1) 10 mg (1) 5 mg (2) 2 mg (1) 1 mg	(2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg (1) 50 mg (2) 20 mg (1) 10 mg (1) 5 mg (2) 2 mg (1) 1 mg	(1) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg	(1) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g	(2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g	(2) 200 g (1) 100 g
22 pcs. **411.11 g set wt.**	**23 pcs.** **611.11 g set wt.**	**14 pcs.** **611 g set wt.**	**10 pcs.** **410 g set wt.**	**11 pcs.** **610 g set wt.**	**3 pcs.** **500 g set wt.**



Set Includes Lifting Device, Glove and Case

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 500 g

Class E1 Polished Finish

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
500 g - 1 mg	**30822**	$7,200.00	Included
500 g - 100 mg	**30826**	$6,375.00	Included
500 g - 1 g	**30830**	$5,750.00	Included
500 g - 100 g	**30834**	$4,850.00	Included

Class E2 Polished Finish

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
500 g - 1 mg	**30823**	$3,850.00	Included
500 g - 100 mg	**30827**	$3,325.00	Included
500 g - 1 g	**30831**	$2,675.00	Included
500 g - 100 g	**30835**	$1,940.00	Included

Class F1 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
500 g - 1 mg	**30824**	$2,280.00	$1,176.00	$750.75
500 g - 100 mg	**30828**	$2,030.00	$840.00	$561.75
500 g - 1 g	**30832**	$1,700.00	$672.00	$430.50
500 g - 100 g	**30836**	$1,490.00	$341.25	$173.25

Class F2 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
500 g - 1 mg	**30825**	$1,940.00	$1,176.00	$750.75
500 g - 100 mg	**30829**	$1,800.00	$840.00	$561.75
500 g - 1 g	**30833**	$1,510.00	$672.00	$430.50
500 g - 100 g	**30837**	$1,100.00	$341.25	$173.25

Class M1 Satin Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
500 g - 1 mg	**195670**	Consult	Consult	Consult
500 g - 1 g	**195671**	Consult	Consult	Consult

Replacement Cases

Main Cases

Class E1, E2, F1 and F2

Set Range	Part #	Price
500 g - 1 mg	**34645**	$350.00
500 g - 100 mg	**34645**	$350.00
500 g - 1 g	**34645**	$350.00
500 g - 100 g	**34645**	$350.00

Main Cases

Class M1

Set Range	Part #	Price
500 g - 1 mg	**Consult**	Consult
500 g - 1 g	**Consult**	Consult

Inserts

Class E1, E2, F1, F2 and M1

Set Range	Part #	Price
500 g - 1 mg	**30607**	$220.00
500 g - 100 g	**30608**	$415.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Tong assembly 1 kg - 200 g	**50000**	$78.00

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Range: 500 g

Weight Set Contents

500 g to 1 mg	500 g to 100 mg	500 g - 1 g	500 g - 100 g
30822 Class E1 **30823** Class E2 **30824** Class F1 **30825** Class F2 **195670** Class M1	**30826** Class E1 **30827** Class E2 **30828** Class F1 **30829** Class F2 –	**30830** Class E1 **30831** Class E2 **30832** Class F1 **30833** Class F2 **195671** Class M1	**30834** Class E1 **30835** Class E2 **30836** Class F1 **30837** Class F2 –
(1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg (1) 50 mg (2) 20 mg (1) 10 mg (1) 5 mg (2) 2 mg (1) 1 mg	(1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg	(1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g	(1) 500 g (2) 200 g (1) 100 g
24 pcs. **1.11111 kg set wt.**	**16 pcs.** **1.111 kg set wt.**	**12 pcs.** **1.11 kg set wt.**	**4 pcs.** **1 kg set wt.**



Set Includes Lifting Device, Glove and Case

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 1 kg

Class E1 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
1 kg - 1 mg	**30806**	$8,225.00	Included
1 kg - 100 mg	**30810**	$6,975.00	Included
1 kg - 1 g	**30814**	$6,275.00	Included
1 kg - 100 g	**30818**	$4,275.00	Included

Class E2 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
1 kg - 1 mg	**30807**	$4,500.00	Included
1 kg - 100 mg	**30811**	$4,500.00	Included
1 kg - 1 g	**30815**	$3,900.00	Included
1 kg - 100 g	**30819**	$3,100.00	Included

Class F1 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
1 kg - 1 mg	**30808**	$3,250.00	$1,270.50	$803.25
1 kg - 100 mg	**30812**	$3,100.00	$945.00	$551.25
1 kg - 1 g	**30816**	$3,000.00	$766.50	$477.75
1 kg - 100 g	**30820**	$2,625.00	$435.75	$215.25

Class F2 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
1 kg - 1 mg	**30809**	$3,125.00	$1,270.50	$803.25
1 kg - 100 mg	**30813**	$3,050.00	$945.00	$551.25
1 kg - 1 g	**30817**	$2,975.00	$766.50	$477.75
1 kg - 100 g	**30821**	$2,290.00	$435.75	$215.25

Class M1 Satin Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
1 kg - 1 mg	**159154**	$2,280.00	Consult	Consult
1 kg - 1 g	**159155**	$1,860.00	Consult	Consult

Replacement Cases

Main Cases
Class E1, E2, F1 and F2

Set Range	Part #	Price
1 kg - 1 mg	**30605**	$2,060.00
1 kg - 100 mg	**30605**	$2,060.00
1 kg - 1 g	**30605**	$2,060.00
1 kg - 100 g	**30606**	$1,860.00

Main Cases
Class M1

Set Range	Part #	Price
1 kg - 1 mg	**Consult**	Consult
1 kg - 1 g	**Consult**	Consult

Secondary Case

Set Range	Part #	Price
100 g - 1 mg	**34697**	$240.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Tong assembly 1 kg - 200 g	**50000**	$78.00

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Range: 1 kg

Weight Set Contents

1 kg - 1 mg	1 kg - 100 mg	1 kg - 1 g	1 kg - 100 g
30806 Class E1 **30807** Class E2 **30808** Class F1 **30809** Class F2 **159154** Class M1	**30810** Class E1 **30811** Class E2 **30812** Class F1 **30813** Class F2 –	**30814** Class E1 **30815** Class E2 **30816** Class F1 **30817** Class F2 **159155** Class M1	**30818** Class E1 **30819** Class E2 **30820** Class F1 **30821** Class F2 –
(1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg (1) 50 mg (2) 20 mg (1) 10 mg (1) 5 mg (2) 2 mg (1) 1 mg	(1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg	(1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g	(1) 1 kg (1) 500 g (2) 200 g (1) 100 g
25 pcs. **2.11111 kg set wt.**	**17 pcs.** **2.111 kg set wt.**	**13 pcs.** **2.11 kg set wt.**	**5 pcs.** **2 kg set wt.**



Set Includes Lifting Device, Glove and Case (1 kg to 1 mg)

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 2 kg

Class E1 Polished Finish

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
2 kg - 1 mg	**40518**	$10,825.00	Included
2 kg - 100 mg	**40519**	$9,425.00	Included
2 kg - 1 g	**40520**	$7,925.00	Included
2 kg - 100 g	**40521**	$5,775.00	Included

Class E2 Polished Finish

Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
2 kg - 1 mg	**40523**	$5,600.00	Included
(2) 2 kg -1 mg	**96455**	$6,175.00	Included
2 kg - 1 g	**40525**	$4,425.00	Included
(2) 2 kg - 1 g	**96457**	$5,575.00	Included

Class F1 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
2 kg - 1 mg	**40528**	$4,425.00	$1,375.50	$945.00
(2) 2 kg -1 mg	**96459**	$4,600.00	$1,501.50	$1,008.00
2 kg - 1 g	**40530**	$3,425.00	$882.00	$535.50
(2) 2 kg - 1 g	**96461**	$4,025.00	$1,218.00	$598.50

Class F2 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
2 kg - 1 mg	**40533**	$3,825.00	$1,375.50	$945.00
(2) 2 kg -1 mg	**96463**	$3,825.00	$1,501.50	$1,008.00
2 kg - 1 g	**40535**	$3,375.00	$882.00	$535.50
(2) 2 kg - 1 g	**96465**	$3,900.00	$1,008.00	$598.50

Class M1 Satin Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
2 kg - 1 mg	**195672**	$2,925.00	Consult	Consult
2 kg - 1 g	**195673**	$2,100.00	Consult	Consult



Set Includes Lifting Device, Glove and Case (1 kg to 1 mg)

Replacement Cases

Main Cases

Class E1

Set Range	Part #	Price
2 kg - 1 mg	**96308**	$2,070.00
2 kg - 100 mg	**96308**	$2,070.00
2 kg - 1 g	**96308**	$2,070.00
2 kg - 100 g	**96308**	$2,070.00

Main Cases

Class E2, F1 and F2

Set Range	Part #	Price
2 kg - 1 mg	**96308**	$2,070.00
(2) 2 kg -1 mg	**84474**	$2,070.00
2 kg - 1 g	**96308**	$2,070.00
(2) 2 kg - 1 g	**84474**	$2,070.00

Main Cases

Class M1

Set Range	Part #	Price
2 kg - 1 mg	**Consult**	Consult
2 kg - 1 g	**Consult**	Consult

Secondary Case

Set Range	Part #	Price
100 g - 1 mg	**34697**	$240.00

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Range: 2 kg

Weight Set Contents

2 kg - 1 mg	2 kg - 100 mg	(2) 2 kg - 1 mg	2 kg - 1 g	(2) 2 kg - 1 g	2 kg - 100 g
40518 Class E1	**40519** Class E1	–	**40520** Class E1	–	**40521** Class E1
40523 Class E2	–	**96455** Class E2	**40525** Class E2	**96457** Class E2	–
40528 Class F1	–	**96459** Class F1	**40530** Class F1	**96461** Class F1	–
40533 Class F2	–	**96463** Class F2	**40535** Class F2	**96465** Class F2	–
–	–	–	**195672** Class M1	**195673** Class M1	–
(1) 2 kg	(1) 2 kg	(2) 2 kg	(1) 2 kg	(2) 2 kg	(1) 2 kg
(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg
(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g	(1) 500 g
(2) 200 g	(2) 200 g	(2) 200 g	(2) 200 g	(2) 200 g	(2) 200 g
(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g
(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	
(2) 20 g	(2) 20 g	(2) 20 g	(2) 20 g	(2) 20 g	
(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	
(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	
(2) 2 g	(2) 2 g	(2) 2 g	(2) 2 g	(2) 2 g	
(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	
(1) 500 mg	(1) 500 mg	(1) 500 mg			
(2) 200 mg	(2) 200 mg	(2) 200 mg			
(1) 100 mg	(1) 100 mg	(1) 100 mg			
(1) 50 mg		(1) 50 mg			
(2) 20 mg		(2) 20 mg			
(1) 10 mg		(1) 10 mg			
(1) 5 mg		(1) 5 mg			
(2) 2 mg		(2) 2 mg			
(1) 1 mg		(1) 1 mg			
26 pcs.	**18 pcs.**	**27 pcs.**	**14 pcs.**	**15 pcs.**	**6 pcs.**
4.11111 kg set wt.	**4.111 kg set wt.**	**6.11111 kg set wt.**	**4.11 kg set wt.**	**4.11 kg set wt.**	**4.0 kg set wt.**

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Tong assembly 1 kg - 200 g	**50000**	$78.00
Lifter, 5 kg and 2 kg	**50037**	$57.00

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 5 kg

Class E1 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
5 kg - 1 mg	**30785**	$12,775.00	Included
5 kg - 100 mg	**30789**	$12,300.00	Included
5 kg - 1 g	**30793**	$11,800.00	Included
5 kg - 100 g	**30797**	$8,325.00	Included
5 kg - 1 kg	**30802**	$7,050.00	Included

Class E2 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate Accredited
5 kg - 1 mg	**30786**	$7,275.00	Included
5 kg - 100 mg	**30790**	$7,000.00	Included
5 kg - 1 g	**30794**	$6,300.00	Included
5 kg - 100 g	**30798**	$5,550.00	Included
5 kg - 1 kg	**30803**	$4,700.00	Included

Class F1 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
5 kg - 1 mg	**30787**	$5,450.00	$1,470.00	$882.00
5 kg - 100 mg	**30791**	$5,550.00	$1,286.25	$803.25
5 kg - 1 g	**30795**	$5,125.00	$1,128.75	$666.75
5 kg - 100 g	**30800**	$4,700.00	$792.75	$399.00
5 kg - 1 kg	**30804**	$4,450.00	$404.25	$231.00

Class F2 Polished Finish

Set Range	Part #	Price	Optional Certificate Accredited	Non-accredited
5 kg - 1 mg	**30788**	$5,000.00	$1,470.00	$882.00
5 kg - 100 mg	**30792**	$4,850.00	$1,286.25	$803.25
5 kg - 1 g	**30796**	$4,425.00	$1,128.75	$666.75
5 kg - 100 g	**30801**	$4,050.00	$792.75	$399.00
5 kg - 1 kg	**30805**	$3,750.00	$404.25	$231.00

Class M1 Satin Finish

Set Range	Part #	Price	Optional Certificate Accredited
5 kg - 1 mg	**126169**	$2,900.00	$819.00
5 kg - 1 g	**126168**	$2,490.00	$514.50

Replacement Cases

Main Cases
Class E1, E2, F1 and F2

Set Range	Part #	Price
5 kg - 1 mg	**30602**	$2,020.00
5 kg - 100 mg	**30602**	$2,020.00
5 kg - 1 g	**30602**	$2,020.00
5 kg - 100 g	**30603**	$2,020.00
5 kg - 1 kg	**30604**	$1,860.00

Main Cases
Class M1

Set Range	Part #	Price
5 kg - 1 mg	**126164**	$265.00
5 kg - 1 g	**126164**	$265.00

Secondary Case

Set Range	Part #	Price
100 g - 1 mg	**34697**	$240.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Tong assembly 1 kg - 200 g	**50000**	$78.00
Lifter, 5 kg and 2 kg	**50037**	$57.00

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Range: 5 kg

Weight Set Contents

5 kg - 1 mg	5 kg - 100 mg	5 kg - 1 g	5 kg - 100 g	5 kg - 1 kg
30785 Class E1 **30786** Class E2 **30787** Class F1 **30788** Class F2 **126169** Class M1	**30789** Class E1 **30790** Class E2 **30791** Class F1 **30792** Class F2 –	**30793** Class E1 **30794** Class E2 **30795** Class F1 **30796** Class F2 **126168** Class M1	**30797** Class E1 **30798** Class E2 **30800** Class F1 **30801** Class F2 –	**30802** Class E1 **30803** Class E2 **30804** Class F1 **30805** Class F2 –
(1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg (1) 50 mg (2) 20 mg (1) 10 mg (1) 5 mg (2) 2 mg (1) 1 mg	(1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg	(1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g	(1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g	(1) 5 kg (2) 2 kg (1) 1 kg
28 pcs. **11.11111 kg set wt.**	**20 pcs.** **11.111 kg set wt.**	**16 pcs.** **11.11 kg set wt.**	**8 pcs.** **11 kg set wt.**	**4 pcs.** **10 kg set wt.**



Set Includes Lifting Device, Glove and Case (1 kg to 1 mg)

MASS REFERENCE STANDARDS / METRIC SETS

Range: 10 kg

Class E2 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate: Accredited
10 kg - 1 mg	**65213**	$10,350.00	Included
10 kg - 100 mg	**96419**	$10,025.00	Included
10 kg - 1 g	**96415**	$9,725.00	Included
10 kg - 100 g	**96420**	$8,525.00	Included
10 kg - 1 kg	**96421**	$7,600.00	Included

Class F1 Polished Finish

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
10 kg - 1 mg	**65214**	$8,575.00	$1,575.00	$945.00
10 kg - 100 mg	**96429**	$8,450.00	$1,391.25	$861.00
10 kg - 1 g	**96430**	$8,275.00	$1,239.00	$724.50
10 kg - 100 g	**96467**	$7,775.00	$913.50	$462.00
10 kg - 1 kg	**96432**	$6,975.00	$556.50	$294.00

Class F2 Polished Finish

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
10 kg - 1 mg	**65215**	$7,625.00	$1,575.00	$945.00
10 kg - 100 mg	**96445**	$7,500.00	$1,391.25	$861.00
10 kg - 1 g	**96446**	$7,400.00	$1,239.00	$724.50
10 kg - 100 g	**96444**	$6,775.00	$913.50	$462.00
10 kg - 1 kg	**96448**	$6,200.00	$556.50	$294.00

Class M1 Satin Finish

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
10 kg - 1 mg	**195676**	$3,425.00	Consult	Consult
10 kg - 1 g	**195677**	$3,075.00	Consult	Consult

Replacement Cases

Main Cases
Class E2, F1 and F2

Set Range	Part #	Price
10 kg - 1 mg	**65218**	$2,575.00
10 kg - 100 mg	**65218**	$2,575.00
10 kg - 1 g	**65218**	$2,575.00
10 kg - 100 g	**65218**	$2,575.00
10 kg - 1 kg	**65218**	$2,575.00

Main Cases
Class M1

Set Range	Part #	Price
10 kg - 1 mg	**Consult**	Consult
10 kg - 1 g	**200297**	$615.00

Secondary Case

Set Range	Part #	Price
100 g - 1 mg	**34697**	$240.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Tong assembly 1 kg - 200 g	**50000**	$78.00
Lifter, 5 kg and 2 kg	**50037**	$57.00

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Range: 10 kg

Weight Set Contents

10 kg - 1 mg	10 kg - 100 mg	10 kg - 1 g	10 kg - 100 g	10 kg - 1 kg
65213 Class E2 **65214** Class F1 **65215** Class F2 **195676** Class M1	**96419** Class E2 **96429** Class F1 **96445** Class F2 –	**96415** Class E2 **96430** Class F1 **96446** Class F2 **195677** Class M1	**96420** Class E2 **96467** Class F1 **96444** Class F2 –	**96421** Class E2 **96432** Class F1 **96448** Class F2 –
(1) 10 kg (1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg (1) 50 mg (2) 20 mg (1) 10 mg (1) 5 mg (2) 2 mg (1) 1 mg	(1) 10 kg (1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg	(1) 10 kg (1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g	(1) 10 kg (1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g	(1) 10 kg (1) 5 kg (2) 2 kg (1) 1 kg
29 pcs. **21.11111 kg set wt.**	**21 pcs.** **21.11105 kg**	**17 pcs.** **21.111 kg set wt.**	**9 pcs.** **21 kg set wt.**	**5 pcs.** **20 kg set wt.**

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MASS REFERENCE STANDARDS / METRIC SETS

Range: 20 kg

Class E2 Polished Finish
Statement of Accuracy not available.

Set Range	Part #	Price	Certificate: Accredited
20 kg - 1 mg	**65210**	$14,425.00	Included
20 kg - 100 mg	**96416**	$14,100.00	Included
20 kg - 1 g	**96414**	$13,525.00	Included
20 kg - 100 g	**96417**	$12,400.00	Included
20 kg - 1 kg	**96418**	$11,025.00	Included

Class F1 Polished Finish

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
20 kg - 1 mg	**65211**	$11,200.00	$1,764.00	$1,076.25
20 kg - 100 mg	**96428**	$7,425.00	$1,517.25	$929.25
20 kg - 1 g	**96425**	$10,875.00	$1,349.25	$798.00
20 kg - 100 g	**96426**	$10,350.00	$1,023.75	$525.00
20 kg - 1 kg	**96427**	$9,550.00	$677.25	$357.00

Class F2 Polished Finish

Set Range	Part #	Price	Optional Certificate: Accredited	Non-accredited
20 kg - 1 mg	**65212**	$9,975.00	$1,764.00	$1,076.25
20 kg - 100 mg	**96447**	$9,800.00	$1,517.25	$929.25
20 kg - 1 g	**96441**	$9,700.00	$1,349.25	$798.00
20 kg - 100 g	**96442**	$9,225.00	$1,023.75	$525.00
20 kg - 1 kg	**96443**	$8,500.00	$677.25	$672.00

Replacement Cases

Main Cases
Class E2, F1 and F2

Set Range	Part #	Price
20 kg - 1 mg	**65219**	$2,450.00
20 kg - 100 mg	**65219**	$2,450.00
20 kg - 1 g	**65219**	$2,450.00
20 kg - 100 g	**65219**	$2,450.00
20 kg - 1 kg	**65219**	$2,450.00

Secondary Case

Set Range	Part #	Price
100 g - 1 mg	**34697**	$240.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Tweezer	**11711**	$5.25
Premium tweezer	**152414**	$45.50
Serial number	**25836**	$17.00
Leaf weight cover	**11755**	$45.50
Weight forceps, plastic	**50035**	$45.50
Tong assembly 1 kg - 200 g	**50000**	$78.00
Lifter, 5 kg and 2 kg	**50037**	$57.00

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Range: 20 kg

Weight Set Contents

20 kg - 1 mg	20 kg - 100 mg	20 kg - 1 g	20 kg - 100 g	20 kg - 1 kg
65210 Class E2 **65211** Class F1 **65212** Class F2	**96416** Class E2 **96428** Class F1 **96447** Class F2	**96414** Class E2 **96425** Class F1 **96441** Class F2	**96417** Class E2 **96426** Class F1 **96442** Class F2	**96418** Class E2 **96427** Class F1 **96443** Class F2
(1) 20 kg (1) 10 kg (1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg (1) 50 mg (2) 20 mg (1) 10 mg (1) 5 mg (2) 2 mg (1) 1 mg	(1) 20 kg (1) 10 kg (1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g (1) 500 mg (2) 200 mg (1) 100 mg	(1) 20 kg (1) 10 kg (1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g (1) 50 g (2) 20 g (1) 10 g (1) 5 g (2) 2 g (1) 1 g	(1) 20 kg (1) 10 kg (1) 5 kg (2) 2 kg (1) 1 kg (1) 500 g (2) 200 g (1) 100 g	(1) 20 kg (1) 10 kg (1) 5 kg (2) 2 kg (1) 1 kg
30 pcs. **41.11111 kg set wt.**	**22 pcs.** **41.11105 kg set wt.**	**18 pcs.** **41.111 kg set wt.**	**10 pcs.** **41 kg set wt.**	**6 pcs.** **40 kg set wt.**

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BALANCE CALIBRATION WEIGHTS / METRIC SINGLE WEIGHT WITH CASE (KIT)

Range: 5 kg – 10 g

Class 1 Polished Finish

Weight	Kit Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
5 kg	**12958**	$795.00	$152.25	$84.00
4 kg	**12956**	$695.00	$152.25	$84.00
3 kg	**12954**	$420.00	$152.25	$84.00
2 kg	**12952**	$250.00	$152.25	$84.00
1,500 g	**12985**	$230.00	$152.25	$84.00
1,000 g	**12971**	$205.00	$131.25	$63.00
600 g	**12983**	$220.00	$131.25	$63.00
500 g	**12950**	$170.00	$131.25	$63.00
400 g	**12968**	$170.00	$131.25	$63.00
300 g	**12966**	$160.00	$131.25	$63.00
200 g	**12948**	$145.00	$131.25	$63.00
160 g	**12981**	$150.00	$131.25	$63.00
150 g	**12979**	$135.00	$131.25	$63.00
100 g	**12946**	$125.00	$57.75	$47.25
50 g	**12964**	$105.00	$57.75	$47.25
30 g	**12962**	$105.00	$57.75	$47.25
20 g	**12960**	$105.00	$57.75	$47.25
10 g	**12944**	$105.00	$57.75	$47.25

Class 2 Polished Finish

Weight	Kit Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
5 kg	**13076**	$640.00	$152.25	$84.00
4 kg	**13074**	$630.00	$152.25	$84.00
3 kg	**13072**	$340.00	$152.25	$84.00
2 kg	**13070**	$230.00	$152.25	$84.00
1,500 g	**13103**	$230.00	$152.25	$84.00
1,000 g	**13089**	$185.00	$131.25	$63.00
600 g	**13101**	$210.00	$131.25	$63.00
500 g	**13068**	$170.00	$131.25	$63.00
400 g	**13086**	$165.00	$131.25	$63.00
300 g	**13084**	$160.00	$131.25	$63.00
200 g	**13066**	$145.00	$131.25	$63.00
160 g	**13099**	$145.00	$131.25	$63.00
150 g	**13097**	$130.00	$131.25	$63.00
100 g	**13064**	$120.00	$57.75	$47.25
50 g	**13082**	$98.00	$57.75	$47.25
30 g	**13080**	$98.00	$57.75	$47.25
20 g	**13078**	$98.00	$57.75	$47.25
10 g	**13062**	$98.00	$57.75	$47.25



Kits Include a Single Weight with Case and Glove

Replacement Cases

Main Cases Class 1 and 2 Nominal Value	Part #	Price
5 kg	**197476**	$240.00
4 kg	**197475**	$240.00
3 kg	**190273**	$40.50
2 kg	**190268**	$40.50
1,500 g	**190270**	$40.50
1,000 g	**190259**	$40.50
600 g	**189714**	$40.50
500 g	**189712**	$40.50
400 g	**189709**	$40.50

Main Cases Class 1 and 2 Nominal Value	Part #	Price
300 g	**189643**	$40.50
200 g	**194185**	$38.50
160 g	**189634**	$40.50
150 g	**189633**	$40.50
100 g	**189567**	$44.50
50 g	**189506**	$44.50
30 g	**189505**	$44.50
20 g	**189482**	$44.50
10 g	**189475**	$44.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Nitrile glove	**11773**	$3.50
Serial number	**25836**	$17.00

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BALANCE CALIBRATION WEIGHTS / METRIC SINGLE WEIGHT WITH CASE (KIT)

Range: 5 kg – 10 g

Class 3 Satin Finish

Weight	Kit Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
5 kg	**13179**	$605.00	$152.25	$84.00
4 kg	**13177**	$580.00	$152.25	$84.00
3 kg	**13175**	$330.00	$152.25	$84.00
2 kg	**13173**	$230.00	$152.25	$84.00
1,500 g	**13206**	$220.00	$152.25	$84.00
1,000 g	**13192**	$185.00	$131.25	$63.00
600 g	**13204**	$205.00	$131.25	$63.00
500 g	**13171**	$160.00	$131.25	$63.00
400 g	**13189**	$160.00	$131.25	$63.00
300 g	**13187**	$140.00	$131.25	$63.00
200 g	**13169**	$140.00	$131.25	$63.00
160 g	**13202**	$140.00	$131.25	$63.00
150 g	**13200**	$125.00	$131.25	$63.00
100 g	**13167**	$120.00	$57.75	$47.25
50 g	**13185**	$98.00	$57.75	$47.25
30 g	**13183**	$98.00	$57.75	$47.25
20 g	**13181**	$98.00	$57.75	$47.25
10 g	**13165**	$98.00	$57.75	$47.25



Case for 4 kg and 5 kg only

Class 4 Satin Finish

Weight	Kit Part #	Price	Optional Certificate Accredited
5 kg	**13282**	$590.00	$78.75
4 kg	**13280**	$555.00	$78.75
3 kg	**13278**	$325.00	$78.75
2 kg	**13276**	$210.00	$78.75
1,500 g	**13309**	$205.00	$78.75
1,000 g	**13295**	$185.00	$57.75
600 g	**13307**	$195.00	$57.75
500 g	**13274**	$150.00	$57.75
400 g	**13292**	$145.00	$57.75
300 g	**13290**	$135.00	$57.75
200 g	**13272**	$130.00	$57.75
160 g	**13305**	$135.00	$57.75
150 g	**13303**	$120.00	$57.75
100 g	**13270**	$98.00	$42.00
50 g	**13288**	$98.00	$42.00
30 g	**13286**	$90.00	$42.00
20 g	**13284**	$90.00	$42.00
10 g	**13268**	$90.00	$42.00



Kits Include a Single Weight with Case and Glove

Replacement Cases

Main Cases — Class 3 and 4 Nominal Value	Part #	Price
5 kg	**197476**	$240.00
4 kg	**197475**	$240.00
3 kg	**190273**	$40.50
2 kg	**190268**	$40.50
1,500 g	**190270**	$40.50
1,000 g	**190259**	$40.50
600 g	**189714**	$40.50
500 g	**189712**	$40.50
400 g	**189709**	$40.50

Main Cases — Class 3 and 4 Nominal Value	Part #	Price
300 g	**189643**	$40.50
200 g	**194185**	$38.50
160 g	**189634**	$40.50
150 g	**189633**	$40.50
100 g	**189567**	$44.50
50 g	**189506**	$44.50
30 g	**189505**	$44.50
20 g	**189482**	$44.50
10 g	**189475**	$44.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Nitrile glove	**11773**	$3.50
Serial number	**25836**	$17.00

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BALANCE CALIBRATION WEIGHTS / METRIC SINGLE WEIGHTS

Range: 30 kg – 5 kg

Class 1 Polished Finish
Grip-handle

Weight	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
30 kg	**12996**	$2,700.00	$409.50	$89.25
25 kg	**12995**	$2,600.00	$152.25	$84.00
24 kg	**12994**	$2,500.00	$152.25	$84.00
20 kg	**12993**	$2,100.00	$152.25	$84.00
16 kg	**12992**	$2,000.00	$152.25	$84.00
10 kg	**12991**	$1,400.00	$152.25	$84.00
8 kg	**12990**	$1,350.00	$152.25	$84.00
5 kg	**12989**	$1,050.00	$152.25	$84.00

Class 2 Polished Finish
Grip-handle

Weight	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
30 kg	**13114**	$2,600.00	$409.50	$89.25
25 kg	**13113**	$2,200.00	$152.25	$84.00
24 kg	**13112**	$2,100.00	$152.25	$84.00
20 kg	**13111**	$2,000.00	$152.25	$84.00
16 kg	**13110**	$1,900.00	$152.25	$84.00
10 kg	**13109**	$1,100.00	$152.25	$84.00
8 kg	**13108**	$1,100.00	$152.25	$84.00
5 kg	**13107**	$900.00	$152.25	$84.00

Class 3 Satin Finish
Grip-handle

Weight	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
30 kg	**13217**	$2,400.00	$409.50	$89.25
25 kg	**13216**	$2,200.00	$152.25	$84.00
24 kg	**13215**	$1,950.00	$152.25	$84.00
20 kg	**13214**	$1,850.00	$152.25	$84.00
16 kg	**13213**	$1,500.00	$152.25	$84.00
10 kg	**13212**	$1,250.00	$152.25	$84.00
8 kg	**13211**	$1,100.00	$152.25	$84.00
5 kg	**13210**	$850.00	$152.25	$84.00

Class 4 Satin Finish
Grip-handle

Weight	Part #	Price	Optional Certificate
			Accredited
30 kg	**13320**	$2,100.00	$84.00
25 kg	**13319**	$1,850.00	$78.75
24 kg	**13318**	$1,750.00	$78.75
20 kg	**13317**	$1,500.00	$78.75
16 kg	**13316**	$1,200.00	$78.75
10 kg	**13315**	$1,000.00	$78.75
8 kg	**13314**	$980.00	$78.75
5 kg	**13313**	$670.00	$78.75



Replacement Cases

Main Cases		
Class 1, 2, 3 and 4		
Nominal Value	**Part #**	**Price**
30 kg to 5 kg	**Consult**	Consult

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Range: 5 kg – 10 g

Class 1 Polished Finish
Cylindrical

Weight	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
5 kg	**12959**	$765.00	$152.25	$84.00
4 kg	**12957**	$665.00	$152.25	$84.00
3 kg	**12955**	$395.00	$152.25	$84.00
2 kg	**12953**	$230.00	$152.25	$84.00
1,500 g	**12986**	$200.00	$152.25	$84.00
1,000 g	**12972**	$170.00	$131.25	$63.00
600 g	**12984**	$185.00	$131.25	$63.00
500 g	**12951**	$145.00	$131.25	$63.00
400 g	**12969**	$140.00	$131.25	$63.00
300 g	**12967**	$135.00	$131.25	$63.00
200 g	**12949**	$135.00	$131.25	$63.00
160 g	**12982**	$145.00	$131.25	$63.00
150 g	**12980**	$98.00	$131.25	$63.00
100 g	**12947**	$90.00	$57.75	$47.25
50 g	**12965**	$83.00	$57.75	$47.25
30 g	**12963**	$83.00	$57.75	$47.25
20 g	**12961**	$83.00	$57.75	$47.25
10 g	**12945**	$83.00	$57.75	$47.25

Class 2 Polished Finish
Cylindrical

Weight	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
5 kg	**13077**	$610.00	$152.25	$84.00
4 kg	**13075**	$600.00	$152.25	$84.00
3 kg	**13073**	$310.00	$152.25	$84.00
2 kg	**13071**	$205.00	$152.25	$84.00
1,500 g	**13104**	$200.00	$152.25	$84.00
1,000 g	**13090**	$165.00	$131.25	$63.00
600 g	**13102**	$170.00	$131.25	$63.00
500 g	**13069**	$140.00	$131.25	$63.00
400 g	**13087**	$135.00	$131.25	$63.00
300 g	**13085**	$125.00	$131.25	$63.00
200 g	**13067**	$125.00	$131.25	$63.00
160 g	**13100**	$135.00	$131.25	$63.00
150 g	**13098**	$90.00	$131.25	$63.00
100 g	**13065**	$83.00	$57.75	$47.25
50 g	**13083**	$77.00	$57.75	$47.25
30 g	**13081**	$77.00	$57.75	$47.25
20 g	**13079**	$77.00	$57.75	$47.25
10 g	**13063**	$77.00	$57.75	$47.25

Class 3 Satin Finish
Cylindrical

Weight	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
5 kg	**13180**	$580.00	$152.25	$84.00
4 k g	**13178**	$550.00	$152.25	$84.00
3 kg	**13176**	$300.00	$152.25	$84.00
2 kg	**13174**	$195.00	$152.25	$84.00
1,500 g	**13207**	$195.00	$152.25	$84.00
1,000 g	**13193**	$160.00	$131.25	$63.00
600 g	**13205**	$165.00	$131.25	$63.00
500 g	**13172**	$130.00	$131.25	$63.00
400 g	**13190**	$130.00	$131.25	$63.00
300 g	**13188**	$120.00	$131.25	$63.00
200 g	**13170**	$105.00	$131.25	$63.00
160 g	**13203**	$135.00	$131.25	$63.00
150 g	**13201**	$83.00	$131.25	$63.00
100 g	**13168**	$77.00	$57.75	$47.25
50 g	**13186**	$72.00	$57.75	$47.25
30 g	**13184**	$72.00	$57.75	$47.25
20 g	**13182**	$72.00	$57.75	$47.25
10 g	**13166**	$72.00	$57.75	$47.25

Class 4 Satin Finish
Cylindrical

Weight	Part #	Price	Optional Certificate Accredited
5 kg	**13283**	$505.00	$78.75
4 kg	**13281**	$475.00	$78.75
3 kg	**13279**	$295.00	$78.75
2 kg	**13277**	$185.00	$78.75
1,500 g	**13310**	$180.00	$78.75
1,000 g	**13296**	$160.00	$78.75
600 g	**13308**	$160.00	$57.75
500 g	**13275**	$125.00	$57.75
400 g	**13293**	$125.00	$57.75
300 g	**13291**	$105.00	$57.75
200 g	**13273**	$98.00	$57.75
160 g	**13306**	$130.00	$57.75
150 g	**13304**	$77.00	$57.75
100 g	**13271**	$72.00	$42.00
50 g	**13289**	$72.00	$42.00
30 g	**13287**	$72.00	$42.00
20 g	**13285**	$72.00	$42.00
10 g	**13269**	$72.00	$42.00



Replacement Cases

Main Cases Class 1, 2, 3 and 4 Nominal Value	Part #	Price
5 kg	**197476**	$240.00
4 kg	**197475**	$240.00
3 kg	**190273**	$40.50
2 kg	**190268**	$40.50
1,500 g	**190270**	$40.50
1,000 g	**190259**	$40.50
600 g	**189714**	$40.50
500 g	**189712**	$40.50
400 g	**189709**	$40.50

Main Cases Class 1, 2, 3 and 4 Nominal Value	Part #	Price
300 g	**189643**	$40.50
200 g	**194185**	$38.50
160 g	**189634**	$40.50
150 g	**189633**	$40.50
100 g	**189567**	$44.50
50 g	**189506**	$44.50
30 g	**189505**	$44.50
20 g	**189482**	$44.50
10 g	**189475**	$44.50

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BALANCE CALIBRATION WEIGHTS / AVOIRDUPOIS SINGLE WEIGHTS

Range: 50 lb – 10 lb

Class 1 Polished Finish
Grip-handle

Weight	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
50 lb	**13038**	$2,800.00	$299.25	$89.25
30 lb	**13037**	$2,400.00	$136.50	$89.25
25 lb	**13036**	$2,000.00	$136.50	$89.25
20 lb	**13035**	$1,900.00	$136.50	$89.25
10 lb	**13034**	$1,500.00	$136.50	$89.25

Class 2 Polished Finish
Grip-handle

Weight	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
50 lb	**13155**	$2,400.00	$299.25	$89.25
30 lb	**13154**	$2,200.00	$136.50	$89.25
25 lb	**13153**	$1,900.00	$136.50	$89.25
20 lb	**13152**	$1,500.00	$136.50	$89.25
10 lb	**13151**	$1,300.00	$136.50	$89.25

Class 3 Satin Finish
Grip-handle

Weight	Part #	Price	Optional Certificate	
			Accredited	Non-Accredited
50 lb	**13258**	$2,200.00	$299.25	$89.25
30 lb	**13257**	$2,000.00	$136.50	$89.25
25 lb	**13256**	$1,700.00	$136.50	$89.25
20 lb	**13255**	$1,400.00	$136.50	$89.25
10 lb	**13254**	$1,200.00	$136.50	$89.25

Class 4 Satin Finish
Grip-handle

Weight	Part #	Price	Optional Certificate
			Accredited
50 lb	**13361**	$2,100.00	$84.00
30 lb	**13360**	$1,500.00	$84.00
25 lb	**13359**	$1,100.00	$84.00
20 lb	**13358**	$1,000.00	$84.00
10 lb	**13357**	$800.00	$84.00



Replacement Cases

Main Cases		
Class 1, 2, 3 and 4		
Nominal Value	Part #	Price
50 lb to 10 lb	**Consult**	Consult

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Range: 10 lb – 0.05 lb

Class 1 Polished Finish
Cylindrical

Weight	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
10 lb	**13022**	$775.00	$136.50	$89.25
5 lb	**13020**	$395.00	$136.50	$89.25
4 lb	**13018**	$230.00	$136.50	$89.25
3 lb	**13016**	$200.00	$136.50	$89.25
2 lb	**13014**	$180.00	$110.25	$73.50
1 lb	**13012**	$145.00	$110.25	$73.50
8 oz	**13010**	$125.00	$57.75	$47.25
4 oz	**13008**	$120.00	$57.75	$47.25
2 oz	**13006**	$105.00	$57.75	$47.25
1 oz	**13004**	$105.00	$57.75	$47.25
1/2 oz	**13002**	$98.00	$57.75	$47.25
0.5 lb	**13033**	$125.00	$57.75	$47.25
0.2 lb	**13025**	$120.00	$57.75	$47.25
0.1 lb	**13027**	$105.00	$57.75	$47.25
0.05 lb	**13029**	$98.00	$57.75	$47.25

Class 2 Polished Finish
Cylindrical

Weight	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
10 lb	**13139**	$605.00	$136.50	$89.25
5 lb	**13137**	$330.00	$136.50	$89.25
4 lb	**13135**	$210.00	$136.50	$89.25
3 lb	**13133**	$195.00	$136.50	$89.25
2 lb	**13131**	$165.00	$110.25	$73.50
1 lb	**13129**	$140.00	$110.25	$73.50
8 oz	**13127**	$120.00	$57.75	$47.25
4 oz	**13125**	$89.00	$57.75	$47.25
2 oz	**13123**	$83.00	$57.75	$47.25
1 oz	**13121**	$83.00	$57.75	$47.25
1/2 oz	**13119**	$83.00	$57.75	$47.25
0.5 lb	**13150**	$105.00	$57.75	$47.25
0.2 lb	**13142**	$83.00	$57.75	$47.25
0.1 lb	**13144**	$83.00	$57.75	$47.25
0.05 lb	**13146**	$83.00	$57.75	$47.25

Class 3 Satin Finish
Cylindrical

Weight	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
10 lb	**13242**	$550.00	$136.50	$89.25
5 lb	**13240**	$310.00	$136.50	$89.25
4 lb	**13238**	$205.00	$136.50	$89.25
3 lb	**13236**	$195.00	$136.50	$89.25
2 lb	**13234**	$160.00	$110.25	$73.50
1 lb	**13232**	$135.00	$110.25	$73.50
8 oz	**13230**	$105.00	$57.75	$47.25
4 oz	**13228**	$89.00	$57.75	$47.25
2 oz	**13226**	$83.00	$57.75	$47.25
1 oz	**13224**	$77.00	$57.75	$47.25
1/2 oz	**13222**	$77.00	$57.75	$47.25
0.5 lb	**13253**	$105.00	$57.75	$47.25
0.2 lb	**13245**	$72.00	$57.75	$47.25
0.1 lb	**13247**	$72.00	$57.75	$47.25
0.05 lb	**13249**	$72.00	$57.75	$47.25

Class 4 Satin Finish
Cylindrical

Weight	Part #	Price	Optional Certificate Accredited
10 lb	**13345**	$520.00	$84.00
5 lb	**13343**	$300.00	$84.00
4 lb	**13341**	$200.00	$84.00
3 lb	**13339**	$185.00	$84.00
2 lb	**13337**	$160.00	$68.25
1 lb	**13335**	$130.00	$68.25
8 oz	**13333**	$98.00	$42.00
4 oz	**13331**	$83.00	$42.00
2 oz	**13329**	$77.00	$42.00
1 oz	**13327**	$72.00	$42.00
1/2 oz	**13325**	$72.00	$42.00
0.5 lb	**13356**	$98.00	$42.00
0.2 lb	**13348**	$72.00	$42.00
0.1 lb	**13350**	$72.00	$42.00
0.05 lb	**13352**	$72.00	$42.00



Replacement Cases

Main Cases Class 1, 2, 3 and 4 Nominal Value	Part #	Price
10 lb	**197473**	$240.00
5 lb	**190269**	$40.50
4 lb	**190267**	$40.50
3 lb	**190263**	$40.50
2 lb	**190260**	$40.50
1 lb	**189710**	$40.50
8 oz	**189635**	$40.50
4 oz	**189568**	$44.50

Main Cases Class 1, 2, 3 and 4 Nominal Value	Part #	Price
2 oz	**189565**	$44.50
1 oz	**189484**	$44.50
1/2 oz	**189476**	$44.50
0.5 lb	**189635**	$40.50
0.2 lb	**189565**	$44.50
0.1 lb	**189507**	$44.50
0.05 lb	**189483**	$44.50

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BALANCE CALIBRATION WEIGHTS / AVOIRDUPOIS SINGLE WEIGHT WITH CASE (KIT)

Range: 10 lb – 0.05 lb

Class 1 Polished Finish

Weight	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
10 lb	**13021**	$795.00	$136.50	$89.25
5 lb	**13019**	$420.00	$136.50	$89.25
4 lb	**13017**	$250.00	$136.50	$89.25
3 lb	**13015**	$230.00	$136.50	$89.25
2 lb	**13013**	$205.00	$110.25	$73.50
1 lb	**13011**	$170.00	$110.25	$73.50
8 oz	**13009**	$145.00	$57.75	$47.25
4 oz	**13007**	$140.00	$57.75	$47.25
2 oz	**13005**	$135.00	$57.75	$47.25
1 oz	**13003**	$135.00	$57.75	$47.25
1/2 oz	**13001**	$135.00	$57.75	$47.25
0.5 lb	**13032**	$145.00	$57.75	$47.25
0.2 lb	**13024**	$140.00	$57.75	$47.25
0.1 lb	**13026**	$135.00	$57.75	$47.25
0.05 lb	**13028**	$135.00	$57.75	$47.25

Class 2 Polished Finish

Weight	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
10 lb	**13138**	$640.00	$178.50	$136.50
5 lb	**13136**	$340.00	$136.50	$89.25
4 lb	**13134**	$245.00	$136.50	$89.25
3 lb	**13132**	$230.00	$136.50	$89.25
2 lb	**13130**	$185.00	$110.25	$73.50
1 lb	**13128**	$170.00	$110.25	$73.50
8 oz	**13126**	$140.00	$57.75	$47.25
4 oz	**13124**	$120.00	$57.75	$47.25
2 oz	**13122**	$120.00	$57.75	$47.25
1 oz	**13120**	$120.00	$57.75	$47.25
1/2 oz	**13118**	$120.00	$57.75	$47.25
0.5 lb	**13149**	$140.00	$57.75	$47.25
0.2 lb	**13141**	$120.00	$57.75	$47.25
0.1 lb	**13143**	$120.00	$57.75	$47.25
0.05 lb	**13145**	$120.00	$57.75	$47.25



Kits Include a Single Weight with Case and Glove

Replacement Cases

Main Cases Class 1 and 2 Nominal Value	Part #	Price
10 lb	**197473**	$240.00
5 lb	**190269**	$40.50
4 lb	**190267**	$40.50
3 lb	**190263**	$40.50
2 lb	**190260**	$40.50
1 lb	**189710**	$40.50
8 oz	**189635**	$40.50
4 oz	**189568**	$44.50
2 oz	**189565**	$44.50

Main Cases Class 1 and 2 Nominal Value	Part #	Price
1 oz	**189484**	$44.50
1/2 oz	**189476**	$44.50
0.5 lb	**189635**	$40.50
0.2 lb	**190126**	$40.50
0.1 lb	**189507**	$44.50
0.05 lb	**189483**	$44.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Nitrile glove	**11773**	$3.50
Serial number	**25836**	$17.00

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BALANCE CALIBRATION WEIGHTS / AVOIRDUPOIS SINGLE WEIGHT WITH CASE (KIT)

Range: 10 lb – 0.05 lb

Class 3 Satin Finish

Weight	Part #	Price	Optional Certificate Accredited	Optional Certificate Non-Accredited
10 lb	**13241**	$575.00	$136.50	$89.25
5 lb	**13239**	$340.00	$136.50	$89.25
4 lb	**13237**	$245.00	$136.50	$89.25
3 lb	**13235**	$230.00	$136.50	$89.25
2 lb	**13233**	$185.00	$110.25	$73.50
1 lb	**13231**	$160.00	$110.25	$73.50
8 oz	**13229**	$140.00	$57.75	$47.25
4 oz	**13227**	$120.00	$57.75	$47.25
2 oz	**13225**	$120.00	$57.75	$47.25
1 oz	**13223**	$120.00	$57.75	$47.25
1/2 oz	**13221**	$120.00	$57.75	$47.25
0.5 lb	**13252**	$140.00	$57.75	$47.25
0.2 lb	**13244**	$105.00	$57.75	$47.25
0.1 lb	**13246**	$105.00	$57.75	$47.25
0.05 lb	**13248**	$105.00	$57.75	$47.25

Class 4 Satin Finish

Weight	Part #	Price	Optional Certificate Accredited
10 lb	**13344**	$555.00	$84.00
5 lb	**13342**	$330.00	$84.00
4 lb	**13340**	$235.00	$84.00
3 lb	**13338**	$210.00	$84.00
2 lb	**13336**	$185.00	$68.25
1 lb	**13334**	$150.00	$68.25
8 oz	**13332**	$130.00	$42.00
4 oz	**13330**	$120.00	$42.00
2 oz	**13328**	$120.00	$42.00
1 oz	**13326**	$105.00	$42.00
1/2 oz	**13324**	$105.00	$42.00
0.5 lb	**13355**	$135.00	$42.00
0.2 lb	**13347**	$98.00	$42.00
0.1 lb	**13349**	$98.00	$42.00
0.05 lb	**13351**	$98.00	$42.00



Case for 10 lb only



Kits Include a Single Weight with Case and Glove

Replacement Cases

Main Cases Class 3 and 4 Nominal Value	Part #	Price
10 lb	**197473**	$240.00
5 lb	**190269**	$40.50
4 lb	**190267**	$40.50
3 lb	**190263**	$40.50
2 lb	**190260**	$40.50
1 lb	**189710**	$40.50
8 oz	**189635**	$40.50
4 oz	**189568**	$44.50
2 oz	**189565**	$44.50

Main Cases Class 3 and 4 Nominal Value	Part #	Price
1 oz	**189484**	$44.50
1/2 oz	**189476**	$44.50
0.5 lb	**189635**	$40.50
0.2 lb	**190126**	$40.50
0.1 lb	**189507**	$44.50
0.05 lb	**189483**	$44.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Weight glove, white cotton	**11714**	$7.25
Nitrile glove	**11773**	$3.50
Serial number	**25836**	$17.00

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STAINLESS STEEL / METRIC SINGLE WEIGHTS

Range: 30 kg – 1 mg

Class 5
Grip-handle

Weight	Part #	Height	Diameter	Price	Optional Certificate Accredited
30 kg	**12572**	9-3/16 in (233 mm)	6 in (152 mm)	$1,700.00	$84.00
25 kg	**12571**	7-3/16 in (183 mm)	6 in (152 mm)	$1,380.00	$78.75
20 kg	**12569**	6-7/16 in (164 mm)	6 in (152 mm)	$1,100.00	$78.75
10 kg	**12567**	5-3/16 in (132 mm)	5 in (127 mm)	$850.00	$78.75
8 kg	**12565**	4-13/32 in (112 mm)	5 in (127 mm)	$800.00	$78.75
5 kg	**12564**	3-7/32 in (82 mm)	5 in (127 mm)	$480.00	$78.75



Class 5
Cylindrical

Weight	Part #	Height	Diameter	Price	Optional Certificate Accredited
5 kg	**12521**	4-13/32 in (112 mm)	3-1/2 in (89 mm)	$265.00	$78.75
4 kg	**12519**	3-3/16 in (97 mm)	3-3/8 in (85 mm)	$245.00	$78.75
3 kg	**12517**	3-23/32 in (95 mm)	3 in (76 mm)	$220.00	$78.75
2 kg	**12515**	3-5/16 in (84 mm)	2-5/8 in (66 mm)	$160.00	$78.75
1 kg	**12513**	2-11/16 in (68 mm)	2 in (50 mm)	$90.00	$57.75
500 g	**12511**	2-1/8 in (54 mm)	1-5/8 in (41 mm)	$84.00	$57.75
400 g	**12531**	2-1/32 in (52 mm)	1-1/2 in (38 mm)	$77.00	$57.75
300 g	**12529**	1-13/16 in (46 mm)	1-3/8 in (35 mm)	$77.00	$57.75
200 g	**12509**	1-21/32 in (42 mm)	1-3/16 in (30 mm)	$66.00	$57.75
150 g	**12549**	1-9/32 in (33 mm)	1-3/16 in (30 mm)	$57.00	$57.75
100 g	**12507**	1-3/16 in (30 mm)	1 in (25 mm)	$54.00	$42.00
50 g	**12527**	31/32 in (25 mm)	3/4 in (19 mm)	$49.00	$42.00
30 g	**12525**	11/16 in (17 mm)	11/16 in (17 mm)	$45.50	$42.00
20 g	**12523**	5/8 in (16 mm)	19/32 in (15 mm)	$45.50	$42.00
10 g	**12505**	19/32 in (15 mm)	7/16 in (11 mm)	$45.50	$42.00
5 g	**12503**	13/32 in (10 mm)	3/8 in (10 mm)	$39.50	$42.00
3 g	**12533**	3/8 in (9 mm)	5/16 in (8 mm)	$39.50	$42.00
2 g	**12501**	5/16 in (8 mm)	9/32 in (7 mm)	$39.50	$42.00
1 g	**12499**	0.234 in (6 mm)	0.218 in (6 mm)	$39.50	$42.00



Class 5
Leaf (Milligram) with Vial

Weight	Part #	Price	Optional Certificate Accredited
1 g	**230886**	$42.50	$40.00
500 mg	**219300**	$29.30	$42.00
300 mg	**219301**	$29.30	$42.00
200 mg	**219302**	$29.30	$42.00
100 mg	**219304**	$29.30	$42.00
50 mg	**219305**	$29.30	$42.00
30 mg	**219306**	$29.30	$42.00
20 mg	**219307**	$29.30	$42.00
10 mg	**219308**	$29.30	$42.00
5 mg	**219309**	$29.30	$42.00
3 mg	**219310**	$29.30	$42.00
2 mg	**219311**	$29.30	$42.00
1 mg	**219312**	$29.30	$42.00

Class 5
Leaf (Milligram) Weight Only

Weight	Part #	Price	Optional Certificate Accredited
500 mg	**12913**	$25.50	$42.00
300 mg	**12914**	$25.50	$42.00
200 mg	**12915**	$25.50	$42.00
100 mg	**12916**	$25.50	$42.00
50 mg	**12917**	$25.50	$42.00
30 mg	**12918**	$25.50	$42.00
20 mg	**12919**	$25.50	$42.00
10 mg	**12920**	$25.50	$42.00
5 mg	**12921**	$25.50	$42.00
3 mg	**12922**	$25.50	$42.00
2 mg	**12923**	$25.50	$42.00
1 mg	**12924**	$25.50	$42.00



Milligram weights must be shipped in a vial or case.

Optional Cases

Main Cases Cylindrical Class 5 Nominal Value	Part #	Price
5 kg	**197476**	$240.00
4 kg	**197475**	$240.00
3 kg	**190273**	$40.50
2 kg	**190268**	$40.50
1 kg	**190259**	$40.50
500 g	**189712**	$40.50
400 g	**189709**	$40.50
300 g	**189643**	$40.50
200 g	**194185**	$38.50

Main Cases Cylindrical Class 5 Nominal Value	Part #	Price
150 g	**189633**	$40.50
100 g	**189567**	$44.50
50 g	**189506**	$44.50
30 g	**190126**	$40.50
20 g	**189482**	$44.50
10 g	**189475**	$44.50
5 g	**194048**	$42.00
3 g	**194030**	$42.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00
Vial	**50038**	$5.25

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Range: 50 lb – 10 lb

Class 5
Grip-handle

Weight	Part #	Height	Diameter	Price	Optional Certificate Accredited
50 lb	**12677**	6-21/32 in (169 mm)	6 in (152 mm)	$1,400.00	$84.00
30 lb	**12676**	6-11/16 in (170 mm)	5 in (127 mm)	$1,000.00	$84.00
25 lb	**12675**	5-3/4 in (146 mm)	5 in (127 mm)	$850.00	$84.00
20 lb	**12674**	4-27/32 in (123 mm)	5 in (127 mm)	$780.00	$84.00
10 lb	**12673**	3-1/32 in (77 mm)	5 in (127 mm)	$470.00	$84.00



Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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STAINLESS STEEL / AVOIRDUPOIS SINGLE WEIGHTS

Range: 10 lb – 0.001 lb

Class 5
Cylindrical

Weight	Part #	Height	Diameter	Price	Optional Certificate Accredited
10 lb	**12606**	4-1/16 in (103 mm)	3-1/2 in (88 mm)	$295.00	$84.00
5 lb	**12604**	3-11/16 in (93 mm)	2-5/8 in (66 mm)	$205.00	$84.00
4 lb	**12602**	3-1/16 in (77 mm)	2-5/8 in (66 mm)	$175.00	$84.00
3 lb	**12600**	2-15/16 in (74 mm)	2-1/4 in (57 mm)	$170.00	$84.00
2 lb	**12598**	2-15/32 in (63 mm)	2 in (51 mm)	$90.00	$68.25
1 lb	**12596**	2-9/32 in (58 mm)	1-1/2 in (38 mm)	$75.00	$68.25
12 oz	**12626**	2-1/16 in (52 mm)	1-3/8 in (35 mm)	$75.00	$42.00
8 oz	**12594**	1-21/32 in (42 mm)	1-1/4 in (32 mm)	$75.00	$42.00
4 oz	**12592**	1-11/32 in (34 mm)	1 in (25 mm)	$75.00	$42.00
2 oz	**12590**	15/16 in (24 mm)	13/16 in (21 mm)	$60.00	$42.00
1 oz	**12587**	13/16 in (20 mm)	5/8 in (16 mm)	$60.00	$42.00
1/2 oz	**12584**	21/32 in (17 mm)	1/2 in (13 mm)	$60.00	$42.00
1/4 oz	**12581**	5/8 in (16 mm)	3/8 in (10 mm)	$60.00	$42.00
1/8 oz	**12578**	7/16 in (11 mm)	5/16 in (8 mm)	$60.00	$42.00
1/16 oz	**12575**	3/8 in (10 mm)	1/4 in (6 mm)	$60.00	$42.00
1/32 oz	**12608**	11/32 in (9 mm)	3/16 in (5 mm)	$60.00	$42.00
0.5 oz	**12647**	21/32 in (17 mm)	1/2 in (13 mm)	$60.00	$42.00
0.3 oz	**12645**	17/32 in (14 mm)	7/16 in (11 mm)	$60.00	$42.00
0.2 oz	**12643**	1/2 in (13 mm)	3/8 in (9 mm)	$60.00	$42.00
0.1 oz	**12641**	3/8 in (9 mm)	5/16 in (8 mm)	$60.00	$42.00
0.05 oz	**12639**	5/16 in (7 mm)	1/4 in (6 mm)	$60.00	$42.00
0.5 lb	**12624**	1-21/32 in (42 mm)	1 1/4 in (32 mm)	$70.00	$42.00
0.3 lb	**12622**	1-3/16 in (30 mm)	1 1/8 in (28 mm)	$70.00	$42.00
0.2 lb	**12610**	1-7/32 in (31 mm)	15/16 in (24 mm)	$60.00	$42.00
0.1 lb	**12612**	7/8 in (22 mm)	3/4 in (19 mm)	$60.00	$42.00
0.05 lb	**12614**	23/32 in (18 mm)	19/32 in (15 mm)	$60.00	$42.00
0.03 lb	**12620**	5/8 in (16 mm)	1/2 in (12 mm)	$60.00	$42.00
0.02 lb	**12616**	9/16 in (14 mm)	7/16 in (11 mm)	$60.00	$42.00
0.01 lb	**12618**	17/32 in (14 mm)	5/16 in (8 mm)	$60.00	$42.00
0.005 lb	**198340**	7/16 in (11 mm)	15/64 in (6 mm)	$60.00	$42.00
0.003 lb	**198344**	7/64 in (7 mm)	15/64 in (6 mm)	$60.00	$42.00
0.002 lb	**198341**	21/64 in (9 mm)	11/64 in (4 mm)	$60.00	$42.00
0.001 lb	**198343**	3/16 in (5 mm)	11/64 in (4 mm)	$60.00	$42.00



Optional Cases

Main Cases Class 5 Nominal Value	Part #	Price
10 lb	**197473**	$240.00
5 lb	**190269**	$40.50
4 lb	**190267**	$40.50
3 lb	**190263**	$40.50
2 lb	**190260**	$40.50
1 lb	**189710**	$40.50
12 oz	**189636**	$40.50
8 oz	**189635**	$40.50
4 oz	**189567**	$44.50
2 oz	**189565**	$44.50
1 oz	**189484**	$44.50
1/2 oz	**189476**	$44.50
1/4 oz	**194054**	$42.00
1/8 oz	**194032**	$42.00
1/16 oz	**189234**	$44.50
1/32 oz	**190126**	$40.50
0.5 oz	**189476**	$44.50

Main Cases Class 5 Nominal Value	Part #	Price
0.3 oz	**189350**	$44.50
0.2 oz	**194054**	$42.00
0.1 oz	**194032**	$42.00
0.05 oz	**189234**	$44.50
0.5 lb	**189635**	$40.50
0.3 lb	**189644**	$40.50
0.2 lb	**190126**	$40.50
0.1 lb	**189506**	$44.50
0.05 lb	**190126**	$40.50
0.03 lb	**189476**	$44.50
0.02 lb	**189350**	$44.50
0.01 lb	**194031**	$165.00
0.005 lb	**Consult**	Consult
0.003 lb	**Consult**	Consult
0.002 lb	**Consult**	Consult
0.001 lb	**Consult**	Consult

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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STAINLESS STEEL / METRIC SETS

Range: 5 g and 50 g

Class 5			Optional Certificate
Set Range	Part #	Price	Accredited
5 g - 1 mg	**12548**	$210.00	$252.00
50 g - 1 mg	**12504**	$265.00	$498.75
50 g - 10 mg	**12502**	$245.00	$399.00
50 g - 1 g	**12500**	$200.00	$199.50
(2) 50 g - 1 mg	**12550**	$385.00	$498.75

Weight Set Contents

5 g - 1 mg	50 g - 1 mg	(2) 50 g - 1 mg	50 g - 10 mg	50 g - 1 g
12548	**12504**	**12550**	**12502**	**12500**
–	(1) 50 g	(2) 50 g	(1) 50 g	(1) 50 g
–	–	(1) 30 g	–	–
–	(2) 20 g	(1) 20 g	(2) 20 g	(2) 20 g
–	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g
(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g
(1) 3 g	–	(1) 3 g	–	–
(1) 2 g	(2) 2 g	(1) 2 g	(2) 2 g	(2) 2 g
(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g
(1) 500 mg	(1) 500 mg	(1) 500 mg	(1) 500 mg	
(1) 300 mg	–	(1) 300 mg	–	
(1) 200 mg	(2) 200 mg	(1) 200 mg	(2) 200 mg	
(1) 100 mg	(1) 100 mg	(1) 100 mg	(1) 100 mg	
(1) 50 mg	(1) 50 mg	(1) 50 mg	(1) 50 mg	
(1) 30 mg	–	(1) 30 mg	–	
(1) 20 mg	(2) 20 mg	(1) 20 mg	(2) 20 mg	
(1) 10 mg	(1) 10 mg	(1) 10 mg	(1) 10 mg	
(1) 5 mg	(1) 5 mg	(1) 5 mg		
(1) 3 mg	–	(1) 3 mg		
(1) 2 mg	(2) 2 mg	(1) 2 mg		
(1) 1 mg	(1) 1 mg	(1) 1 mg		
16 pcs. **12.221 g set wt.**	**20 pcs.** **111.11 g set wt.**	**21 pcs.** **172.221 g set wt.**	**16 pcs.** **111.1 g set wt.**	**8 pcs.** **110.000 g set wt.**



Replacement Cases

Main Cases		
Class 5		
Set Range	Part #	Price
5 g - 1 mg	**11510**	$39.50
50 g - 1 mg	**11512**	$39.50
50 g - 10 mg	**11512**	$39.50
50 g - 1 g	**11512**	$39.50
(2) 50 g - 1 mg	**11512**	$39.50

Inserts		
Class 5 (leaf weight cover not included)		
Set Range	Part #	Price
50 g - 1 mg	**11517**	$39.50
50 g - 10 mg	**11517**	$39.50
50 g - 1 g	**11516**	$39.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Leaf weight cover	**11758**	$45.50
Tweezer	**65640**	$22.25
Serial number	**25836**	$17.00
Premium tweezer	**152414**	$45.50

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STAINLESS STEEL / METRIC SETS

Range: 100 g

Class 5			Optional Certificate
Set Range	Part #	Price	Accredited
100 g - 1 mg	**12510**	$280.00	$530.25
100 g - 10 mg	**12508**	$270.00	$414.75
100 g - 1 g	**12506**	$245.00	$225.75

Weight Set Contents

100 g - 1 mg	100 g - 10 mg	100 g - 1 g
12510	**12508**	**12506**
(1) 100 g	(1) 100 g	(1) 100 g
(1) 50 g	(1) 50 g	(1) 50 g
(2) 20 g	(2) 20 g	(2) 20 g
(1) 10 g	(1) 10 g	(1) 10 g
(1) 5 g	(1) 5 g	(1) 5 g
(2) 2 g	(2) 2 g	(2) 2 g
(1) 1 g	(1) 1 g	(1) 1 g
(1) 500 mg	(1) 500 mg	
(2) 200 mg	(2) 200 mg	
(1) 100 mg	(1) 100 mg	
(1) 50 mg	(1) 50 mg	
(2) 20 mg	(2) 20 mg	
(1) 10 mg	(1) 10 mg	
(1) 5 mg		
(2) 2 mg		
(1) 1 mg		
21 pcs. **211.11 g set wt.**	**17 pcs.** **211.19 g set wt.**	**9 pcs.** **210.000 g set wt.**



Replacement Cases

Main Cases		
Class 5		
Set Range	Part #	Price
100 g - 1 mg	**11512**	$39.50
100 g - 10 mg	**11512**	$39.50
100 g - 1 g	**11512**	$39.50

Inserts		
Class 5 (leaf weight cover not included)		
Set Range	Part #	Price
100 g - 1 mg	**11519**	$39.50
100 g - 10 mg	**11519**	$39.50
100 g - 1 g	**11518**	$39.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Leaf weight cover	**11758**	$45.50
Tweezer	**65640**	$22.25
Serial number	**25836**	$17.00
Premium tweezer	**152414**	$45.50

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STAINLESS STEEL / METRIC SETS

Range: 500 g

Class 5			Optional Certificate
Set Range	Part #	Price	Accredited
500 g - 1 mg	**12516**	$515.00	$635.25
500 g - 10 mg	**12514**	$465.00	$530.25
500 g - 1 g	**12512**	$410.00	$325.50

Weight Set Contents

500 g - 1 mg	500 g - 10 mg	500 g - 1 g
12516	**12514**	**12512**
(1) 500 g	(1) 500 g	(1) 500 g
(2) 200 g	(2) 200 g	(2) 200 g
(1) 100 g	(1) 100 g	(1) 100 g
(1) 50 g	(1) 50 g	(1) 50 g
(2) 20 g	(2) 20 g	(2) 20 g
(1) 10 g	(1) 10 g	(1) 10 g
(1) 5 g	(1) 5 g	(1) 5 g
(2) 2 g	(2) 2 g	(2) 2 g
(1) 1 g	(1) 1 g	(1) 1 g
(1) 500 mg	(1) 500 mg	
(2) 200 mg	(2) 200 mg	
(1) 100 mg	(1) 100 mg	
(1) 50 mg	(1) 50 mg	
(2) 20 mg	(2) 20 mg	
(1) 10 mg	(1) 10 mg	
(1) 5 mg		
(2) 2 mg		
(1) 1 mg		
24 pcs. **1.11111 kg set wt.**	**20 pcs.** **1.1111 kg set wt.**	**12 pcs.** **1.110 kg set wt.**



Replacement Cases

Main Cases

Class 5		
Set Range	Part #	Price
500 g - 1 mg	**11520**	$77.00
500 g - 10 mg	**11520**	$77.00
500 g - 1 g	**11520**	$77.00

Secondary Leatherette Case

Class 5		
Set Range	Part #	Price
100 g - 1 mg	**11512**	$39.50
100 g - 10 mg	**11512**	$39.50
100 g - 1 g	**11512**	$39.50

Inserts for Secondary Case

Class 5
(leaf weight cover not included)

Set Range	Part #	Price
100 g - 1 mg	**11519**	$39.50
100 g - 10 mg	**11519**	$39.50
100 g - 1 g	**11518**	$39.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Leaf weight cover	**11758**	$45.50
Tweezer	**65640**	$22.25
Serial number	**25836**	$17.00
Premium tweezer	**152414**	$45.50

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STAINLESS STEEL / METRIC SETS

Range: 1 kg

Class 5			Optional Certificate
Set Range	Part #	Price	Accredited
1 kg - 1 mg	**12522**	$575.00	$661.50
1 kg - 10 mg	**12520**	$565.00	$567.00
1 kg - 1 g	**12518**	$525.00	$367.50

Weight Set Contents

1 kg - 1 mg	1 kg - 10 mg	1 kg - 1 g
12522	**12520**	**12518**
(1) 1 kg	(1) 1 kg	(1) 1 kg
(1) 500 g	(1) 500 g	(1) 500 g
(2) 200 g	(2) 200 g	(2) 200 g
(1) 100 g	(1) 100 g	(1) 100 g
(1) 50 g	(1) 50 g	(1) 50 g
(2) 20 g	(2) 20 g	(2) 20 g
(1) 10 g	(1) 10 g	(1) 10 g
(1) 5 g	(1) 5 g	(1) 5 g
(2) 2 g	(2) 2 g	(2) 2 g
(1) 1 g	(1) 1 g	(1) 1 g
(1) 500 mg	(1) 500 mg	
(2) 200 mg	(2) 200 mg	
(1) 100 mg	(1) 100 mg	
(1) 50 mg	(1) 50 mg	
(2) 20 mg	(2) 20 mg	
(1) 10 mg	(1) 10 mg	
(1) 5 mg		
(2) 2 mg		
(1) 1 mg		
25 pcs. **2.11111 kg set wt.**	**21 pcs.** **2.1111 kg set wt.**	**13 pcs.** **2.11 kg set wt.**



Replacement Cases

Main Cases		
Class 5		
Set Range	Part #	Price
1 kg - 1 mg	**11521**	$77.00
1 kg - 10 mg	**11521**	$77.00
1 kg - 1 g	**11521**	$77.00

Secondary Leatherette Case		
Class 5		
Set Range	Part #	Price
100 g - 1 mg	**11512**	$39.50
100 g - 10 mg	**11512**	$39.50
100 g - 1 g	**11512**	$39.50

Inserts		
Class 5 (leaf weight cover not included)		
Set Range	Part #	Price
100 g - 1 mg	**11519**	$39.50
100 g - 10 mg	**11519**	$39.50
100 g - 1 g	**11518**	$39.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Leaf weight cover	**11758**	$45.50
Tweezer	**65640**	$22.25
Serial number	**25836**	$17.00
Premium tweezer	**152414**	$45.50

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STAINLESS STEEL / METRIC SETS

Range: 2 kg

Class 5			Optional Certificate
Set Range	Part #	Price	Accredited
2 kg - 1 mg	**12528**	$695.00	$672.00
(5) 2 kg - 1 mg	**12534**	$1,100.00	$672.00
2 kg - 10 mg	**12526**	$660.00	$619.50
(5) 2 kg - 10 mg	**12532**	$1,100.00	$619.50
2 kg - 1 g	**12524**	$610.00	$414.75
(5) 2 kg - 1 g	**12530**	$1,020.00	$593.25

Weight Set Contents

2 kg - 1 mg	(5) 2 kg - 1 mg	2 kg - 10 mg	(5) 2 kg - 10 mg	2 kg - 1 g	(5) 2 kg - 1 g
12528	**12534**	**12526**	**12532**	**12524**	**12530**
(1) 2 kg	(5) 2 kg	(1) 2 kg	(5) 2 kg	(1) 2 kg	(5) 2 kg
(1) 1 kg	-	(1) 1 kg	-	(1) 1 kg	-
(1) 500 g	(5) 500 g	(1) 500 g	(5) 500 g	(1) 500 g	(5) 500 g
(2) 200 g	(2) 200 g	(2) 200 g	(2) 200 g	(2) 200 g	(2) 200 g
(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g
(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g
(2) 20 g	(2) 20 g	(2) 20 g	(2) 20 g	(2) 20 g	(2) 20 g
(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g
(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g
(2) 2 g	(2) 2 g	(2) 2 g	(2) 2 g	(2) 2 g	(2) 2 g
(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g
(1) 500 mg	(1) 500 mg	(1) 500 mg	(1) 500 mg		
(2) 200 mg	(2) 200 mg	(2) 200 mg	(2) 200 mg		
(1) 100 mg	(1) 100 mg	(1) 100 mg	(1) 100 mg		
(1) 50 mg	(1) 50 mg	(1) 50 mg	(1) 50 mg		
(2) 20 mg	(2) 20 mg	(2) 20 mg	(2) 20 mg		
(1) 10 mg	(1) 10 mg	(1) 10 mg	(1) 10 mg		
(1) 5 mg	(1) 5 mg				
(2) 2 mg	(2) 2 mg				
(1) 1 mg	(1) 1 mg				
26 pc	**33 pc**	**22 pc**	**29 pc**	**14 pc**	**21 pc**
4.11111 kg set wt.	**13.11111 kg set wt.**	**4.1111 kg set wt.**	**13.1111 kg set wt.**	**4.110 kg set wt.**	**13.11 kg set wt.**



Replacement Cases

Main Cases		
Class 5		
Set Range	Part #	Price
2 kg - 1 mg	**11522**	$190.00
(5) 2 kg - 1 mg	**11523**	$265.00
2 kg - 10 mg	**11522**	$190.00
(5) 2 kg - 10 mg	**11523**	$265.00
2 kg -1 g	**11522**	$190.00
(5) 2 kg - 1 g	**11523**	$265.00

Secondary Leatherette Case		
Class 5		
Set Range	Part #	Price
100 g - 1 mg	**11512**	$39.50
100 g - 10 mg	**11512**	$39.50
100 g - 1 g	**11512**	$39.50

Inserts		
Class 5 (leaf weight cover not included)		
Set Range	Part #	Price
100 g - 1 mg	**11519**	$39.50
100 g - 10 mg	**11519**	$39.50
100 g - 1 g	**11518**	$39.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Leaf weight cover	**11758**	$45.50
Tweezer	**65640**	$22.25
Serial number	**25836**	$17.00
Premium tweezer	**152414**	$45.50

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STAINLESS STEEL / METRIC SETS

Range: 5 kg

Class 5			Optional Certificate
Set Range	Part #	Price	Accredited
5 kg - 1 mg	**12537**	$935.00	$819.00
(2) 5 kg - 1 mg	**12542**	$1,390.00	$840.00
5 kg - 10 mg	**12536**	$870.00	$714.00
(2) 5 kg - 10 mg	**12539**	$1,220.00	$745.00
5 kg - 1 g	**12535**	$825.00	$514.50
(2) 5 kg - 1 g	**12538**	$1,190.00	$546.00
(3) 5 kg	**12562**	$1,050.00	$231.00

Weight Set Contents

5 kg - 1 mg	(2) 5 kg - 1 mg	5 kg - 10 mg	(2) 5 kg - 10 mg	5 kg - 1 g	(2) 5 kg - 1 g	(3) 5 kg
12537	**12542**	**12536**	**12539**	**12535**	**12538**	**12562**
(1) 5 kg	(2) 5 kg	(1) 5 kg	(2) 5 kg	(1) 5 kg	(2) 5 kg	(3) 5 kg
(2) 2 kg	(2) 2 kg	(2) 2 kg	(2) 2 kg	(2) 2 kg	(2) 2 kg	
(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	(1) 1 kg	
(1) 500 g	(5) 500 g	(1) 500 g	(5) 500 g	(1) 500 g	(5) 500 g	
(2) 200 g	(2) 200 g	(2) 200 g	(2) 200 g	(2) 200 g	(2) 200 g	
(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	(1) 100 g	
(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	(1) 50 g	
(2) 20 g	(2) 20 g	(2) 20 g	(2) 20 g	(2) 20 g	(2) 20 g	
(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	(1) 10 g	
(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	(1) 5 g	
(2) 2 g	(2) 2 g	(2) 2 g	(2) 2 g	(2) 2 g	(2) 2 g	
(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	(1) 1 g	
(1) 500 mg	(1) 500 mg	(1) 500 mg	(1) 500 mg			
(2) 200 mg	(2) 200 mg	(2) 200 mg	(2) 200 mg			
(1) 100 mg	(1) 100 mg	(1) 100 mg	(1) 100 mg			
(1) 50 mg	(1) 50 mg	(1) 50 mg	(1) 50 mg			
(2) 20 mg	(2) 20 mg	(2) 20 mg	(2) 20 mg			
(1) 10 mg	(1) 10 mg	(1) 10 mg	(1) 10 mg			
(1) 5 mg	(1) 5 mg					
(2) 2 mg	(2) 2 mg					
(1) 1 mg	(1) 1 mg					
28 pcs. 11.11 kg set wt.	**33 pcs. 18.11 kg set wt.**	**24 pcs. 11.1111 kg set wt.**	**29 pcs. 18.1111 kg set wt.**	**16 pcs. 11.11 kg set wt.**	**21 pcs. 18.110 kg set wt.**	**3 pcs. 15 kg set wt.**



Replacement Cases

Main Cases		
Class 5		
Set Range	Part #	Price
5 kg - 1 mg	**11524**	$265.00
(2) 5 kg - 1 mg	**11525**	$265.00
5 kg - 10 mg	**11524**	$265.00
(2) 5 kg - 10 mg	**11525**	$265.00
5 kg - 1 g	**11524**	$265.00
(2) 5 kg - 1 g	**11525**	$265.00
(3) 5 kg	**11558**	$265.00

Secondary Leatherette Case		
Class 5		
Set Range	Part #	Price
100 g - 1 mg	**11512**	$39.50
100 g - 10 mg	**11512**	$39.50
100 g - 1 g	**11512**	$39.50

Inserts		
Class 5 (leaf weight cover not included)		
Set Range	Part #	Price
100 g - 1 mg	**11519**	$39.50
100 g - 10 mg	**11519**	$39.50
100 g - 1 g	**11518**	$39.50

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Leaf weight cover	**11758**	$45.50
Tweezer	**65640**	$22.25
Serial number	**25836**	$17.00
Premium tweezer	**152414**	$45.50

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STAINLESS STEEL / AVOIRDUPOIS SET

Range: 4 oz

Class 5			Optional Certificate
Set Range	Part #	Price	Accredited
4 oz - 1/32 oz	**12623**	$230.00	$225.75
4 oz - 0.05 oz	**12625**	$250.00	$204.75
0.2 lb - 0.001 lb	**12576**	$240.00	$273.00
0.3 lb - 0.001 lb	**12654**	$535.00	$273.00

Weight Set Contents

4 oz - 1/32 oz	4 oz- 0.05 oz	0.2 lb- 0.001 lb	0.3 lb - 0.001 lb
12623	**12625**	**12576**	**12654**
(1) 4 oz	(1) 4 oz	–	(1) 0.3 lb
(1) 2 oz	(1) 2 oz	(2) 0.2 lb	(1) 0.2 lb
(1) 1 oz	(1) 1 oz	(1) 0.1 lb	(1) 0.1 lb
(1) 1/2 oz	(1) 0.5 oz	(1) 0.05 lb	(1) 0.05 lb
(1) 1/4 oz	(1) 0.2 oz	–	(1) 0.03 lb
(1) 1/8 oz	(1) 0.1 oz	(2) 0.02 lb	(1) 0.02 lb
(1) 1/16 oz	(1) 0.05 oz	(1) 0.01 lb	(1) 0.01 lb
(2) 1/32 oz		(1) 0.005 lb	(1) 0.005 lb
		–	(1) 0.003 lb
		(2) 0.002 lb	(1) 0.002 lb
		(1) 0.001 lb	(1) 0.001 lb
9 pcs. **1/2 lb set wt.**	**8 pcs.** **1 lb 0.05 oz set wt.**	**11 pcs.** **0.61 lb set wt.**	**11 pcs.** **0.722 lb set wt.**



Replacement Cases

Main Cases		
Class 5		
Set Size	Part #	Price
4 oz - 1/32 oz	**11510**	$39.50
4 oz - 0.05 oz	**11510**	$39.50
0.2 lb - 0.001 lb	**11512**	$39.50
0.3 lb - 0.001 lb	**200180**	$42.00

Inserts		
Class 5		
Size	Part #	Price
4 oz - 1/32 oz	**11552**	$28.00
4 oz - 0.05 oz	**11553**	$28.00
0.2 oz - 0.001 lb	**200160**	$42.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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STAINLESS STEEL / AVOIRDUPOIS SET

Range: 1 lb

Class 5			Optional Certificate
Set Range	Part #	Price	Accredited
1 lb - 1/32 oz (fractional)	**12591**	$365.00	$294.00
1 lb - 0.001 lb (decimal)	**12593**	$430.00	$346.50
1 lb - 0.05 oz (combination)	**12595**	$390.00	$267.75

Weight Set Contents

1 lb - 1/32 oz	1 lb - 0.001 lb	1 lb - 0.05 oz
12591	**12593**	**12595**
(1) 1 lb	(1) 1 lb	(1) 1 lb
(1) 8 oz	(1) 0.5 lb	(1) 8 oz
(1) 4 oz	(2) 0.2 lb	(1) 4 oz
(1) 2 oz	(1) 0.1 lb	(1) 2 oz
(1) 1 oz	(1) 0.05 lb	(1) 1 oz
(1) 1/2 oz	(2) 0.02 lb	(1) 0.5 oz
(1) 1/4 oz	(1) 0.01 lb	(2) 0.2 oz
(1) 1/8 oz	(1) 0.005 lb	(1) 0.1 oz
(1) 1/16 oz	(2) 0.002 lb	(1) 0.05 oz
(2) 1/32 oz	(1) 0.001 lb	
11 pcs. **2 lb set wt.**	**13 pcs.** **2.1110 lb set wt.**	**10 pcs.** **1.990625 lb set wt.**



Replacement Cases

Main Cases		
Class 5		
Set Range	Part #	Price
1 lb - 1/32 oz (fractional)	**11544**	$83.00
1 lb - 0.001 lb (decimal)	**11544**	$83.00
1 lb - 0.05 oz (combination)	**11544**	$83.00

Secondary Leatherette Cases		
Class 5		
Set Range	Part #	Price
1 lb - 1/32 oz	**11510**	$39.50
1 lb - 0.001 lb	**11512**	$39.50

Secondary Leatherette Cases		
Class 5		
Set Range	Part #	Price
1 lb - 0.05 oz	**11510**	$39.50

Inserts		
Class 5		
Set Range	Part #	Price
1 lb - 1/32 oz	**11552**	$28.00
1 lb - 0.001 lb	**11553**	$28.00
1 lb - 0.05 oz	**200160**	$42.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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STAINLESS STEEL / AVOIRDUPOIS SET

Range: 2 lb

Class 5			Optional Certificate
Set Size	Part #	Price	Accredited
2 lb - 1/32 oz (fractional)	**12597**	$480.00	$341.25
(2) 2 lb - 1/32 oz (fractional)	**12603**	$620.00	$383.25
2 lb - 0.001 lb (decimal)	**12599**	$495.00	$383.25
(2) 2 lb - 0.001 lb (decimal)	**12605**	$620.00	$493.50
2 lb - 0.05 oz (decimal)	**12601**	$525.00	$283.50
(2) 2 lb - 0.05 oz (decimal)	**12607**	$620.00	$325.50

Weight Set Contents

2 lb - 1/32 oz	(2) 2 lb - 1/32 oz	2 lb - 0.001 lb	(2) 2 lb - 0.001 lb	2 lb - 0.05 oz	(2) 2 lb - 0.05 oz
12597	**12603**	**12599**	**12605**	**12601**	**12607**
(1) 2 lb	(2) 2 lb	(1) 2 lb	(2) 2 lb	(1) 2 lb	(2) 2 lb
(1) 1 lb	(1) 1 lb	(1) 1 lb	(1) 1 lb	(1) 1 lb	(1) 1 lb
(1) 8 oz	(1) 8 oz	(1) 0.5 lb	(1) 0.5 lb	(1) 8 oz	(1) 8 oz
(1) 4 oz	(1) 4 oz	(2) 0.2 lb	(2) 0.2 lb	(1) 4 oz	(1) 4 oz
(1) 2 oz	(1) 2 oz	(1) 0.1 lb	(1) 0.1 lb	(1) 2 oz	(1) 2 oz
(1) 1 oz	(1) 1 oz	(1) 0.05 lb	(1) 0.05 lb	(1) 1 oz	(1) 1 oz
(1) 1/2 oz	(1) 1/2 oz	(2) 0.02 lb	(2) 0.02 lb	(1) 0.5 oz	(1) 0.5 oz
(1) 1/4 oz	(1) 1/4 oz	(1) 0.01 lb	(1) 0.01 lb	(2) 0.2 oz	(2) 0.2 oz
(1) 1/8 oz	(1) 1/8 oz	(1) 0.005 lb	(1) 0.005 lb	(1) 0.1 oz	(1) 0.1 oz
(1) 1/16 oz	(1) 1/16 oz	(2) 0.002 lb	(2) 0.002 lb	(1) 0.05 oz	(1) 0.05 oz
(2) 1/32 oz	(2) 1/32 oz	(1) 0.001 lb	(1) 0.001 lb		
12 pcs. **4 lb set wt.**	**13 pcs.** **6 lb set wt.**	**14 pcs.** **4.108 lb set wt.**	**15 pcs.** **6.1100 lb set wt.**	**11 pcs.** **4.7875 lb set wt.**	**12 pcs.** **6 lb 0.05 oz set wt.**



Replacement Cases

Main Cases		
Class 5		
Set Size	Part #	Price
2 lb - 1/32 oz (fractional)	**11547**	$83.00
(2) 2 lb - 1/32 oz (fractional)	**11548**	$83.00
2 lb - 0.001 lb (decimal)	**11547**	$83.00
(2) 2 lb - 0.001 lb (decimal)	**11548**	$83.00
2 lb - 0.05 oz (decimal)	**11547**	$83.00
(2) 2 lb - 0.05 oz (decimal)	**11548**	$83.00

Secondary Leatherette Cases		
Class 5		
Size	Part #	Price
4 oz - 1/32 oz	**11510**	$39.50
0.2 lb - 0.001 lb	**11512**	$39.50
4 oz - 0.05 oz	**11510**	$39.50

Inserts		
Class 5		
Size	Part #	Price
2 lb - 1/32 oz	**11552**	$28.00
2 lb - 0.001 lb	**11553**	$28.00
2 lb - 0.05 oz	**200160**	$42.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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STAINLESS STEEL / AVOIRDUPOIS SET

Range: 5 lb

Class 5			Optional Certificate
Set Range	Part #	Price	Accredited
5 lb - 1/32 oz	**12615**	$610.00	$430.50
(5) 5 lb - 1/32 oz	**12579**	$1,250.00	$735.00
5 lb - 0.001 lb	**12617**	$615.00	$483.00
(5) 5 lb - 0.001 lb (combination)	**12582**	$1,290.00	$792.75
(5) 5 lb - 0.001 lb	**12634**	$1,290.00	$792.75
5 lb - 0.05 oz (combination)	**12619**	$630.00	$404.25
(5) 5 lb - 0.05 oz (combination)	**12636**	$1,210.00	$682.50
(3) 5 lb - 1 gr (21 lb fractional U.S. Postal Service)	**12627**	$1,280.00	$829.50
(5) 5 lb - 1 gr (31 lb 55 gr)	**12661**	$1,460.00	$966.00
5 lb x (6) (30 lb)	**12640**	$1,130.00	$493.50

Weight Set Contents

5 lb - 1/32 oz	(5) 5 lb - 1/32 oz	5 lb - 0.001 lb	(5) 5 lb - 0.001 lb	(5) 5 lb - 0.001 lb	5 lb - 0.05 oz	(5) 5 lb - 0.05 oz
12615	**12579**	**12617**	**12582**	**12634**	**12619**	**12636**
(1) 5 lb	(5) 5 lb	(1) 5 lb	(5) 5 lb	(5) 5 lb	(1) 5 lb	(5) 5 lb
(2) 2 lb	–	(2) 2 lb	–	–	(2) 2 lb	–
(1) 1 lb	(5) 1 lb	(1) 1 lb	(5) 1 lb	(5) 1 lb	(1) 1 lb	(5) 1 lb
(1) 8 oz	(1) 8 oz	(1) 0.5 lb	(1) 8 oz	(1) 0.5 lb	(1) 8 oz	(1) 8 oz
(1) 4 oz	(1) 4 oz	(2) 0.2 lb	(1) 4 oz	(2) 0.2 lb	(1) 4 oz	(1) 4 oz
(1) 2 oz	(1) 2 oz	(1) 0.1 lb	(2) 0.2 lb	(1) 0.1 lb	(1) 2 oz	(1) 2 oz
(1) 1 oz	(1) 1 oz	(1) 0.05 lb	(1) 2 oz	(1) 0.05 lb	(1) 1 oz	(1) 1 oz
(1) 1/2 oz	(1) 1/2 oz	(2) 0.02 lb	(1) 0.1 lb	(2) 0.02 lb	(1) 0.5 oz	(1) 0.5 oz
(1) 1/4 oz	(1) 1/4 oz	(1) 0.01 lb	(1) 1 oz	(1) 0.01 lb	(2) 0.2 oz	(2) 0.2 oz
(1) 1/8 oz	(1) 1/8 oz	(1) 0.005 lb	(1) 0.05 lb	(1) 0.005 lb	(1) 0.1 oz	(1) 0.1 oz
(1) 1/16 oz	(1) 1/16 oz	(2) 0.002 lb	(1) 1/2 oz	(2) 0.002 lb	(1) 0.05 oz	(1) 0.05 oz
(2) 1/32 oz	(2) 1/32 oz	(1) 0.001 lb	(2) 0.02 lb	(1) 0.001 lb		
			(1) 1/4 oz			
			(1) 0.01 lb			
			(1) 1/8 oz			
			(1) 0.005 lb			
			(1) 1/16 oz			
			(2) 0.002 lb			
			(2) 1/32 oz			
			(1) 0.001 lb			
14 pcs. **11 lb set wt.**	**20 pcs.** **31 lb set wt.**	**16 pcs.** **11.11 lb set wt.**	**31 pcs.** **31.61 lb set wt.**	**22 pcs.** **31.11 lb set wt.**	**13 pcs.** **11 lb 0.05 oz set wt.**	**19 pcs.** **31 lb 0.05 oz set wt.**

Replacement Cases

Main Cases

Class 5		
Set Range	Part #	Price
5 lb - 1/32 oz	**11550**	$260.00
(5) 5 lb - 1/32 oz	**11542**	$260.00
5 lb - 0.001 lb	**11550**	$260.00
(5) 5 lb - 0.001 lb (combination)	**11542**	$260.00
(5) 5 lb - 0.001 lb	**11542**	$260.00
5 lb - 0.05 oz (combination)	**11550**	$260.00
5 lb - 0.05 oz (combination)	**11542**	$260.00
(3) 5 lb - 1 gr (21 lb fractional U.S. Postal Service)	**11554**	$260.00

Main Cases

Class 5		
Set Range	Part #	Price
(5) 5 lb - 1 gr (31 lb 55 gr)	**11570**	$260.00
5 lb x (6) (30 lb)	**11559**	$260.00

Secondary Leatherette Cases

Class 5		
Set Range	Part #	Price
5 lb - 1/32 oz	**11510**	$39.50
(5) 5 lb - 1/32 oz	**11510**	$39.50
5 lb - 0.001 lb	**11512**	$39.50

Secondary Leatherette Cases

Class 5		
Set Range	Part #	Price
(5) 5 lb - 0.001 lb (combination)	**11510 and 11512**	$39.50
(5) 5 lb - 0.001 lb	**11512**	$39.50
5 lb - 0.05 oz	**11510**	$39.50
(5) 5 lb - 0.05 oz	**11510**	$39.50
(3) 5 lb - 1 gr	**11510**	$39.50

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STAINLESS STEEL / AVOIRDUPOIS SET

Range: 5 lb

(3) 5 lb - 1 gr	(5) 5 lb - 1 gr	(6)5 lb
12627	**12661**	**12640**
(3) 5 lb (5) 1 lb (1) 8 oz (1) 4 oz (1) 2 oz (1) 1 oz (1) 1/2 oz (1) 1/4 oz (1) 1/8 oz (1) 1/16 oz (2) 1/32 oz (2) 10 gr (2) 5 gr (2) 2 gr (1) 1 gr	(5) 5 lb (5) 1 lb (1) 8 oz (1) 4 oz (1) 2 oz (1) 1 oz (1) 1/2 oz (1) 1/4 oz (1) 1/8 oz (1) 1/16 oz (2) 1/32 oz (1) 20 gr (2) 10 gr (2) 5 gr (2) 2 gr (1) 1 gr	(6) 5 lb
25 pcs. **21 lb 55 gr set wt.**	**28 pcs.** **31 lb 55 gr set wt.**	**6 pcs.** **30 lb set wt.**



Inserts		
Class 5		
Set Range	**Part #**	**Price**
5 lb - 1/32 oz	**11552**	$28.00
(5) 5 lb - 1/32 oz	**11552**	$28.00
5 lb - 0.001 lb	**200160**	$42.00
(5) 5 lb - 0.001 lb (combination)	**200160**	$42.00
(5) 5 lb - 0.001 lb	**200160**	$42.00
5 lb - 0.05 oz	**11553**	$28.00
(5) 5 lb - 0.05 oz	**11553**	$28.00
(3) 5 lb - 1 gr	**11552**	$28.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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STAINLESS STEEL / AVOIRDUPOIS SET

Range: 10 lb

Class 5			Optional Certificate
Set Range	Part #	Price	Accredited
(3) 10 lb	**12638**	$975.00	$246.75
10 lb - 1/32 oz	**12609**	$890.00	$488.25
10 lb - 0.001 lb	**12611**	$875.00	$535.50
10 lb - 0.05 oz (21 lb x 0.05 oz)	**12613**	$945.00	$441.00
10 lb - 1/4 oz	**12573**	$1,380.00	$498.75
10 lb - 1/32 oz	**12642**	$1,280.00	$488.25
10 lb - 0.001 lb	**12588**	$1,530.00	$819.00
10 lb - 0.001 lb	**12644**	$1,210.00	$530.25
10 lb - 0.001 lb (combination)	**12648**	$1,440.00	$582.75
10 lb - 0.05 oz (combination)	**12646**	$1,370.00	$435.75
10 lb - 1/32 oz	**12628**	$1,650.00	$792.75
10 lb - 0.001 lb	**12621**	$1,810.00	$840.00
10 lb - 0.05 oz (combination)	**12632**	$1,840.00	$761.25
10 lb - 0.001 lb (51.61 lb combination)	**12650**	$1,860.00	$840.00

Weight Set Contents

(3) 10 lb	10 lb - 1/32 oz	10 lb - 0.001 lb	10 lb - 0.05 oz	10 lb - 1/4 oz	10 lb - 1/32 oz	10 lb - 0.001 lb	10 lb - 0.001 lb	10 lb - 0.001 lb
12638	**12609**	**12611**	**12613**	**12573**	**12642**	**12588**	**12644**	**12648**
(3) 10 lb	(1) 10 lb (1) 5 lb (2) 2 lb (1) 1 lb (1) 8 oz (1) 4 oz (1) 2 oz (1) 1 oz (1) 1/2 oz (1) 1/4 oz (1) 1/8 oz (1) 1/16 oz (2) 1/32 oz	(1) 10 lb (1) 5 lb (2) 2 lb (1) 1 lb (1) 0.5 lb (2) 0.2 lb (1) 0.1 lb (1) 0.05 lb (2) 0.02 lb (1) 0.01 lb (1) 0.005 lb (2) 0.002 lb (1) 0.001 lb	(1) 10 lb (1) 5 lb (2) 2 lb (1) 1 lb (1) 8 oz (1) 4 oz (1) 2 oz (1) 1 oz (1) 0.5 oz (1) 0.2 oz (1) 0.1 oz (1) 0.05 oz	(2) 10 lb (1) 5 lb (5) 1 lb (3) 4 oz (3) 1 oz (2) 1/2 oz (2) 1/4 oz	(2) 10 lb (1) 5 lb (2) 2 lb (1) 1 lb (1) 8 oz (1) 4 oz (1) 2 oz (1) 1 oz (1) 1/2 oz (1) 1/4 oz (1) 1/8 oz (1) 1/16 oz (2) 1/32 oz	(2) 10 lb (1) 5 lb (5) 1 lb (3) 4 oz (2) 0.2 lb (1) 0.1 lb (3) 1 oz (1) 0.05 lb (2) 1/2 oz (2) 0.02 lb (2) 1/4 oz (1) 0.01 lb (1) 0.005 lb (2) 0.002 lb (1) 0.001 lb	(2) 10 lb (1) 5 lb (2) 2 lb (1) 1 lb (1) 0.5 lb (2) 0.2 lb (1) 0.1 lb (1) 0.05 lb (2) 0.02 lb (1) 0.01 lb (1) 0.005 lb (2) 0.002 lb (1) 0.001 lb	(2) 10 lb (1) 5 lb (2) 2 lb (1) 1 lb (1) 8 oz (1) 4 oz (1) 2 oz (1) 1 oz (1) 1/2 oz (1) 1/4 oz (1) 1/8 oz (1) 1/16 oz (2) 1/32 oz (2) 0.2 lb (1) 0.1 lb (1) 0.05 lb (2) 0.02 lb (1) 0.01 lb (1) 0.005 lb (2) 0.002 lb (1) 0.001 lb
3 pcs. **30 lb set wt.**	**15 pcs.** **21 lb set wt.**	**17 pcs.** **21.11 lb set wt.**	**13 pcs.** **21 lb 0.05 oz set wt.**	**18 pcs.** **31 lb 1/2 oz set wt.**	**16 pcs.** **31 lb set wt.**	**29 pcs.** **31 lb 1/2 oz set wt.**	**18 pcs.** **31.1100 lb set wt.**	**27 pcs.** **31 lb set wt.**

Replacement Cases

Main Cases

Class 5		
Set Range	Part #	Price
(3) 10 lb	**11558**	$265.00
10 lb - 1/32 oz	**11549**	$260.00
10 lb - 0.001 lb	**11549**	$260.00
10 lb - 0.05 oz (21 lb - 0.05 oz)	**11549**	$260.00
10 lb - 1/4 oz	**11540**	$260.00
10 lb - 1/32 oz	**11562**	$260.00
10 lb - 0.001 lb	**11543**	$260.00
10 lb - 0.001 lb	**11562**	$260.00

Main Cases

Class 5		
Set Range	Part #	Price
10 lb - 0.001 lb (combination)	**11562**	$260.00
10 lb - 0.05 oz (combination)	**11562**	$260.00
10 lb - 1/32 oz	**11555**	$260.00
10 lb - 0.001 lb	**11555**	$260.00
10 lb - 0.05 oz (combination)	**11555**	$260.00
10 lb - 0.001 lb (combination)	**11563**	$260.00

Secondary Leatherette Cases

Class 5		
Size	Part #	Price
10 lb - 0.001 lb	**11512**	$39.50
10 lb - 1/32 oz	**11510**	$39.50

Inserts

Class 5		
Size	Part #	Price
10 lb - 0.001 lb	**200160**	$42.00
10 lb - 1/32 oz	**11552**	$28.00
10 lb - 0.05 oz	**11553**	$28.00

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STAINLESS STEEL / AVOIRDUPOIS SET

Range: 10 lb

10 lb - 0.05 oz	10 lb - 1/32 oz	10 lb - 0.001 lb	10 lb - 0.05 oz	10 lb - 0.001 lb
12646	**12628**	**12621**	**12632**	**12650**
(2) 10 lb	(3) 10 lb	(3) 10 lb	(3) 10 lb	(3) 10 lb
(1) 5 lb	(3) 5 lb	(3) 5 lb	(3) 5 lb	(3) 5 lb
(2) 2 lb	–	–	–	–
(1) 1 lb	(5) 1 lb	(5) 1 lb	(5) 1 lb	(5) 1 lb
(1) 8 oz	(1) 8 oz	(1) 0.5 lb	(1) 8 oz	(1) 8 oz
(1) 4 oz	(1) 4 oz	(2) 0.2 lb	(1) 4 oz	(1) 4 oz
(1) 2 oz	(1) 2 oz	(1) 0.1 lb	(1) 2 oz	(2) 0.2 lb
(1) 1 oz	(1) 1 oz	(1) 0.05 lb	(1) 1 oz	(1) 2 oz
(1) 0.5 oz	(1) 1/2 oz	(2) 0.02 lb	(1) 0.5 oz	(1) 0.1 lb
(2) 0.2 oz	(1) 1/4 oz	(1) 0.01 lb	(2) 0.20 oz	(1) 1 oz
(1) 0.1 oz	(1) 1/8 oz	(1) 0.005 lb	(1) 0.1 oz	(1) 0.05 lb
(1) 0.05 oz	(1) 1/16 oz	(2) 0.002 lb	(1) 0.05 oz	(1) 1/2 oz
	(2) 1/32 oz	(1) 0.001 lb		(2) 0.02 lb
				(1) 1/4 oz
				(1) 0.01 lb
				(1) 1/8 oz
				(1) 0.005 lb
				(1) 1/16 oz
				(2) 0.002 lb
				(2) 1/32 oz
				(1) 0.001 lb
15 pcs. **31 lb 0.05 oz set wt.**	**21 pcs.** **51 lb set wt.**	**23 pcs.** **51.11 lb set wt.**	**20 pcs.** **51 lb 0.05 oz set wt.**	**32 pcs.** **51.6100 lb set wt.**



Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Leaf weight cover	**11758**	$45.50
Tweezer	**65640**	$22.25
Serial number	**25836**	$17.00
Premium tweezer	**152414**	$45.50

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CAST IRON / AVOIRDUPOIS GRIP-HANDLE

Range: 3,000 lb – 1 lb

ASTM

Class 6

Weight	Part #	Length	Width	Height	Slot Width	Slot Depth*	Price	Optional Certificate Accredited
3,000 lb	**12872**	20-3/4 in (527 mm)	20-3/4 in (527 mm)	29 in (737 mm)	3-1/2 in (89 mm)	2-3/4 in (70 mm)	$14,800.00	$325.50
2,500 lb	**12854**	20-3/4 in (527 mm)	20-3/4 in (527 mm)	24-3/4 in (629 mm)	3-31/32 in (101 mm)	2-3/4 in (70 mm)	$12,000.00	$246.75
2,000 lb	**12868**	20-3/4 in (527 mm)	20-3/4 in (527 mm)	19-1/2 in (495 mm)	3-1/2 in (89 mm)	2-3/4 in (70 mm)	$9,600.00	$246.75
1,500 lb	**12864**	15-1/8 in (384 mm)	15-1/8 in (384 mm)	26-7/8 in (683 mm)	2-1/2 in (64 mm)	2-1/4 in (57 mm)	$8,700.00	$246.75
1,250 lb	**12858**	15 in (381 mm)	15 in (381 mm)	23-3/4 in (603 mm)	2-1/2 in (64 mm)	2-1/4 in (57 mm)	$7,700.00	$246.75
1,000 lb	**12850**	15-1/2 in (394 mm)	15 in (381 mm)	18-11/16 in (478 mm)	2-3/4 in (70 mm)	2-29/32 in (74 mm)	$5,000.00	$246.75
500 lb	**12844**	12 in (305 mm)	11-1/2 in (292 mm)	15-3/4 in (400 mm)	2-1/2 in (64 mm)	1-29/32 in (48 mm)	$3,000.00	$246.75
250 lb	**12892**	9-3/4 in (248 mm)	9-3/4 in (248 mm)	12 in (305 mm)	2-1/2 in (64 mm)	2 in (51 mm)	$2,300.00	$246.75
200 lb	**12890**	9-3/4 in (248 mm)	9-3/4 in (248 mm)	10 in (254 mm)	2-1/2 in (64 mm)	2 in (51 mm)	$1,800.00	$246.75
100 lb	**12862**	7 in (178 mm)	9-1/8 in (232 mm)	7-7/8 in (200 mm)	4-1/2 in (114 mm)	1-1/2 in (38 mm)	$900.00	$110.25
50 lb	**12839**	5-1/2 in (140 mm)	7-29/32 in (201 mm)	6-9/16 in (167 mm)	4-1/2 in (114 mm)	1-21/32 in (42 mm)	$250.00	$84.00
30 lb	**12878**	4-29/32 in (125 mm)	8-1/4 in (210 mm)	4-1/2 in (114 mm)	4-15/32 in (114 mm)	31/32 in (25 mm)	$240.00	$84.00
25 lb	**12833**	4-1/2 in (114 mm)	6-1/2 in (165 mm)	4-15/16 in (125 mm)	3-5/8 in (92 mm)	31/32 in (25 mm)	$160.00	$84.00
20 lb	**12870**	4-15/32 in (114 mm)	5-3/4 in (146 mm)	5-3/32 in (129 mm)	3-31/32 in (101 mm)	1-5/32 in (29 mm)	$130.00	$84.00

Class 7

Weight	Part #	Length	Width	Height	Price	Optional Certificate Accredited
10 lb	**12828**	3-1/4 in (83 mm)	5 in (127 mm)	4-1/32 in (102 mm)	$97.00	$84.00
5 lb	**12823**	2-9/16 in (65 mm)	4 in (102 mm)	3-7/32 in (82 mm)	$75.00	$84.00
2 lb	**12874**	2-1/8 in (54 mm)	3 in (76 mm)	1-3/4 in (45 mm)	$70.00	$68.25
1 lb	**12876**	1-11/16 in (43mm)	2-1/2 in (64 mm)	1-13/32 in (38 mm)	$65.00	$68.25

** Slot depth refers to distance between lifting bars and castings.*



Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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Range: 1,000 kg – 500 g

ASTM

Class 6

Weight	Part #	Length	Width	Height	Slot Width	Slot Depth*	Price	Optional Certificate Accredited
1,000 kg	**12801**	20-1/2 in (521 mm)	20-1/2 in (521 mm)	22 in (559 mm)	3-1/2 in (89 mm)	2-3/4 in (70 mm)	$13,000.00	$325.50
500 kg	**12797**	15-1/8 in (384 mm)	15-1/8 in (384 mm)	20-3/4 in (527 mm)	2-1/2 in (64 mm)	2 in (51 mm)	$5,700.00	$246.75
250 kg	**12782**	12 in (305 mm)	11-1/2 in (292 mm)	17-1/2 in (445 mm)	2-1/2 in (64 mm)	1-7/8 in (48 mm)	$3,200.00	$246.75
200 kg	**12793**	12 in (305 mm)	11-1/2 in (292 mm)	14-1/4 in (362 mm)	2-1/2 in (64 mm)	1-7/8 in (48 mm)	$4,000.00	$246.75
100 kg	**12817**	9-7/8 in (251 mm)	9-7/8 in (251 mm)	11 in (279 mm)	2-1/2 in (64 mm)	2 in (51 mm)	$1,800.00	$246.75
50 kg	**12803**	7 in (178 mm)	9-7/32 in (234 mm)	8-13/16 in (224 mm)	4-15/32 in (114 mm)	1-29/32 in (48 mm)	$775.00	$136.50
35 kg	**12805**	5-1/2 in (140 mm)	7-7/8 in (200 mm)	9-15/32 in (252 mm)	4-15/32 in (114 mm)	1-1/16 in (27 mm)	$500.00	$136.50
25 kg	**12775**	5-1/2 in (140 mm)	7-21/32 in (195 mm)	7-3/32 in (180 mm)	4-7/16 in (113 mm)	1-13/16 in (46 mm)	$250.00	$78.75
20 kg	**12771**	5-19/32 in (142 mm)	7-5/8 in (194 mm)	5-29/32 in (150 mm)	4-5/8 in (118 mm)	1-19/32 in (41 mm)	$200.00	$78.75
10 kg	**12767**	4-1/2 in (114 mm)	6 in (152 mm)	5 in (127 mm)	3-3/4 in (95 mm)	1-1/16 in (27 mm)	$190.00	$78.75

Class 7

Weight	Part #	Length	Width	Height	Price	Optional Certificate Accredited
5 kg	**12786**	3-13/32 in (87 mm)	5-15/32 in (139 mm)	4-1/8 (105 mm)	$88.00	$78.75
2 kg	**12809**	2-9/16 in (65 mm)	3-31/32 in (101 mm)	2-13/16 in (71 mm)	$74.00	$78.75
1 kg	**12813**	2-1/8 in (54 mm)	3 in (76 mm)	1-27/32 in (47 mm)	$63.00	$57.75
500 g	**12815**	1-5/8 in (41 mm)	2-1/2 in (64 mm)	1-17/32 in (39 mm)	$58.00	$57.75

OIML

Class M1

Weight	Part #	Length	Width	Height	Slot Width	Slot Depth*	Price	Optional Certificate Accredited
500 kg	**156304**	15-1/8 in (384 mm)	15-1/8 in (384 mm)	20-3/4 in (527 mm)	2-1/2 in (64 mm)	2 in (51 mm)	$6,000.00	$246.75
250 kg	**156305**	12 in (305 mm)	11-1/2 in (292 mm)	17-1/2 in (445 mm)	2-1/2 in (64 mm)	1-7/8 in (48 mm)	$3,600.00	$246.75
100 kg	**156306**	9.87 in (251 mm)	9.87 in (251 mm)	11 in (279 mm)	2-1/2 in (64 mm)	2 in (51 mm)	$1,800.00	$246.75
50 kg	**105417**	7 in (178 mm)	9-7/32 in (234 mm)	8-13/16 in (224 mm)	4-15/32 in (114 mm)	1-29/32 in (48 mm)	$800.00	$136.50
20 kg	**105416**	5-19/32 in (142 mm)	7-5/8 in (194 mm)	5-29/32 in (150 mm)	4-5/8 in (118 mm)	1-19/32 in (41 mm)	$200.00	$78.75
10 kg	**105415**	4-1/2 in (114 mm)	6 in (152 mm)	5 in (127 mm)	3-3/4 in (95 mm)	1-1/16 in (27 mm)	$190.00	$78.75
5 kg	**105414**	3-13/32 in (87 mm)	5-15/32 in (139 mm)	4-1/8 in (105 mm)	-	-	$100.00	$78.75

** Slot depth refers to distance between lifting bars and castings.*



Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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CAST IRON / AVOIRDUPOIS AND METRIC SLOTTED INTERLOCKING AND HANGER

Range: 100 lb – 200 g

ASTM

Class 6
Slotted

Weight	Part #	Slot Width	Diameter	Height	Price	Optional Certificate Accredited
100 lb	**40828**	1 in (25 mm)	17 in (432 mm)	1-15/16 in (49 mm)	$710.00	$110.25
50 lb	**12856**	3/4 in (9 mm)	10-5/8 in (270 mm)	2-11/16 in (68 mm)	$300.00	$84.00
20 lb	**12831**	13/16 in (21 mm)	8-1/8 in (206 mm)	1-31/32 in (50 mm)	$150.00	$84.00

Class 7
Slotted

Weight	Part #	Slot Width	Diameter	Height	Price	Optional Certificate Accredited
10 lb	**12826**	13/16 in (21 mm)	6-1/8 in (156 mm)	1-11/16 in (43 mm)	$110.00	$84.00
5 lb	**12852**	11/16 in (18 mm)	5-1/8 in (130 mm)	1-5/16 in (33 mm)	$95.00	$84.00
2 lb	**12848**	9/16 in (14 mm)	5 in (127 mm)	23/32 in (18 mm)	$80.00	$68.25
1 lb	**12842**	9/16 in (14 mm)	5 in (127 mm)	15/32 in (12 mm)	$75.00	$68.25
1/2 lb	**12837**	9/16 in (14 mm)	3-3/4 in (95 mm)	7/16 in (11 mm)	$60.00	$42.00



Class 7
Hanger

Weight	Part #	Capacity	Total Length	Operational Length	Diameter	Price	Optional Certificate Accredited
5 lb*	**12846**	500 lb	37-1/4 in (946 mm)	35 in (889 mm)	4 in (102 mm)	$350.00	$84.00
2 lb	**12841**	200 lb	21-13/32 in (544 mm)	19 in (483 mm)	3-3/4 in (95 mm)	$180.00	$68.25
2 lb	**12835**	200 lb	10-1/4 in (260 mm)	8 in (203 mm)	3-3/4 in (95 mm)	$180.00	$68.25
1 lb	**12830**	200 lb	21-29/32 in (556 mm)	20-7/32 in (514 mm)	3-3/4 in (95 mm)	$160.00	$68.25
1 lb	**12825**	200 lb	9-5/16 in (237 mm)	7-9/16 in (192 mm)	3-3/4 in (95 mm)	$160.00	$68.25

** Stainless steel*

Class 6
Slotted

Weight	Part #	Slot Width	Diameter	Height	Price	Optional Certificate Accredited
20 kg	**12819**	21/32 in (17 mm)	10-5/16 in (262 mm)	2-11/32 in (60 mm)	$330.00	$78.75
10 kg	**12811**	3/4 in (19 mm)	8-3/16 in (208 mm)	2-1/16 in (52 mm)	$170.00	$78.75

Class 7
Slotted

Weight	Part #	Slot Width	Diameter	Height	Price	Optional Certificate Accredited
5 kg	**12807**	13/16 in (21 mm)	6-3/16 in (157 mm)	1-13/16 in (46 mm)	$140.00	$78.75
2 kg	**12799**	9/16 in (14 mm)	5-1/8 in (130 mm)	1-3/16 in (30 mm)	$95.00	$78.75
1 kg	**12795**	9/16 in (14 mm)	5-1/16 in (129 mm)	3/4 in (19 mm)	$70.00	$57.75
500 g	**12791**	9/16 in (14 mm)	5 in (127 mm)	15/32 in (12 mm)	$67.00	$57.75
200 g	**12780**	5/8 in (16 mm)	3-21/32 in (93 mm)	7/16 in (11 mm)	$54.00	$57.75

Class 7
Hanger

Weight	Part #	Capacity	Total Length	Operational Length	Diameter	Price	Optional Certificate Accredited
2 kg	**12788**	250 kg	37-1/4 in (946 mm)	35 in (889 mm)	4 in (102 mm)	$350.00	$78.75
1 kg	**12784**	100 kg	21-13/32 in (544 mm)	19 in (483 mm)	3-3/4 in (95 mm)	$190.00	$57.75
1 kg	**12777**	100 kg	10-1/4 in (260 mm)	8 in (203 mm)	3-3/4 in (95 mm)	$190.00	$57.75
500 g	**12773**	100 kg	21-29/32 in (556 mm)	20-7/32 in (514 mm)	3-3/4 in (95 mm)	$160.00	$57.75
500 g	**12769**	100 kg	9-5/16 in (237 mm)	7-9/16 in (192 mm)	3-3/4 in (95 mm)	$160.00	$57.75

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00



Avoirdupois

Metric

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Range: 200 kg – 7 oz

ASTM

Class 7
Round

Weight	Part #	Ratio	Diameter	Fairbanks® Part #	Price
50 lb × 1/2 lb	**10154**	1 lb - 100 lb	2-7/8 in (73 mm)	PA48	$42.00
100 lb × 1 lb	**10156**	1 lb - 100 lb	4-1/16 in (103 mm)	PA32	$48.00
200 lb × 2 lb	**10158**	1 lb - 100 lb	4-1/16 in (103 mm)	PA21	$42.00
500 lb × 5 lb	**10160**	1 lb - 100 lb	3-3/4 in (95 mm)	Pb52	$48.00
100 lb × 1/2 lb	**10152**	1/2 lb - 100 lb	2-7/8 in (73 mm)	PBC32	$42.00
200 lb × 1 lb	**10168**	1/2 lb - 100 lb	3-17/32 in (90 mm)	PBC21	$54.00
300 lb × 1 1/2 lb	**10189**	1/2 lb - 100 lb	3-1/2 in (89 mm)	-	$42.00
500 lb × 2 1/2 lb	**10170**	1/2 lb - 100 lb	3-1/2 in (89 mm)	PBC52	$61.00
1,000 lb × 5 lb	**10196**	1/2 lb - 100 lb	3-7/8 in (98 mm)	-	$73.00

Class 7
Hexagon

Weight	Part #	Diameter	Price
10 kg × 100 g	**10266**	2 in (51 mm)	$48.00
25 kg × 250 g	**10268**	2-13/16 in (71 mm)	$48.00
50 kg × 500 g	**10270**	4 in (102 mm)	$52.00
100 g × 1 kg	**10272**	4 in (102 mm)	$58.00
200 kg × 2 kg	**10274**	4 in (102 mm)	$63.00

Class 7
Square

Weight	Part #	Ratio	Diameter	Fairbanks Part #	Price
50 lb × 1/2 lb	**10191**	1 lb - 100 lb	2-5/16 in (59 mm)	1A2349	$48.00
100 lb × 1 lb	**10162**	1 lb - 100 lb	3-1/2 in (89 mm)	1A1469	$48.00
200 lb × 2 lb	**10164**	1 lb - 100 lb	3-1/2 in (89 mm)	1A1470	$54.00
500 lb × 5 lb	**10166**	1 lb - 100 lb	3-1/2 in (89 mm)	1A1471	$91.00

Round and Square
Hangers

Approx. Weight	Part #	Total Length	Operational Length	Diameter	Price
Round					
7 oz	**10188**	7-1/16 in (179 mm)	5-1/8 in (130 mm)	3-31/32 in (101 mm)	$78.00
10 oz (Fairbanks® only)	**10184**	7-1/16 in (179 mm)	5-1/8 in (130 mm)	3-31/32 in (101 mm)	$78.00
12 oz	**10185**	7-1/16 in (179 mm)	5-1/8 in (130 mm)	3-31/32 in (101 mm)	$78.00
17 oz	**10186**	7-1/16 in (179 mm)	5-1/8 in (130 mm)	4 in (102 mm)	$78.00
21 oz	**10187**	7-1/16 in (179 mm)	5-1/8 in (130 mm)	4 in (102 mm)	$78.00
Square					
21 oz	**10193**	8-7/16 in (214 mm)	6-5/16 in (160 mm)	-	$78.00



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CAST IRON / AVOIRDUPOIS COUNTERPOISE AND HANGER

Range: 500 lb – 7 oz

ASTM

Class 7
Round

Weight	Part #	Diameter	Howe™ Part #	Price
50 lb × 1/2 lb	**10367**	3 in (76 mm)	42071831	$54.00
100 lb × 1 lb	**10369**	2-7/8 in (73 mm)	42076188	$54.00
200 lb × 2 lb	**10371**	2-31/32 in (75 mm)	42076189	$54.00
300 lb × 3 lb	**10373**	2-31/32 in (75 mm)	42076190	$54.00
500 lb × 5 lb	**10385**	3-1/8 in (79 mm)	42078947	$54.00

Class 7 for Counting Scales
Round

Weight	Part #	Ratio	Diameter	Fairbanks® Part #	Price
100 lb × 1 1/99 lb	**10387**	99 - 1	3 in (76 mm)	40810545	$61.00
500 lb × 5 5/99 lb	**10391**	99 - 1	3-3/32 in (79 mm)	42111567	$61.00
10 lb × 1 1/4 lb	**10427**	8 - 1	2-15/16 in (75 mm)	-	$61.00
5 lb × 5/8 lb	**10425**	8 - 1	2-15/16 in (75 mm)	-	$54.00
2 lb × 1/4 lb	**10411**	8 - 1	2-7/32 in (56 mm)	-	$54.00
80 lb × 1 3/5 lb	**10421**	50 - 1	3 in (76 mm)	-	$54.00
40 lb × 4/5 lb	**10419**	50 - 1	2-13/16 in (71 mm)	-	$54.00
20 lb × 2/5 lb	**10417**	50 - 1	2-31/32 in (75 mm)	-	$61.00
10 lb × 1/5 lb	**10415**	50 - 1	2 in (51 mm)	-	$54.00
5 lb × 1/10 lb	**10413**	50 - 1	1-1/2 in (38 mm)	-	$54.00
100 lb × 1 9/16 lb or 25 oz	**10409**	64 - 1	3 in (76 mm)	42111417	$54.00
50 lb × 28/32 lb or 12 1/2 oz	**10407**	61 - 1	2-15/16 in (75 mm)	40807082	$54.00
25 lb × 25/64 lb or 6 1/4 oz	**10405**	64 - 1	2-31/32 in (75 mm)	40807092	$54.00
10 lb × 5/32 lb or 2 1/2 oz	**10404**	64 - 1	1-1/2 in (38 mm)	42111454	$54.00

Round
Hangers

Approx. Weight	Part #	Total Length	Operational Length	Diameter	Price
7 oz	**10382**	8-1/4 in (210 mm)	6-3/16 in (157 mm)	2-31/32 in (75 mm)	$73.00
10 oz	**10379**	8-1/4 in (210 mm)	6-3/16 in (157 mm)	2-31/32 in (75 mm)	$73.00
12 oz	**10380**	8-1/4 in (210 mm)	6-3/16 in (157 mm)	2-31/32 in (75 mm)	$125.00
16 oz	**10381**	8-1/4 in (210 mm)	6-3/16 in (157 mm)	2-31/32 in (75 mm)	$125.00

Triangle

Approx. Weight	Part #	Toledo® Part #	Price
100 lb × 1 lb	**11417**	49868	$42.00
200 lb × 2 lb	**11419**	49869	$48.00
500 lb × 5 lb	**11421**	49870	$73.00

Triangle
Hangers

Approx. Weight	Part #	Total Length	Operational Length	Toledo® Part #	Price
14 oz	**11423**	8-1/4 in (210 mm)	6-3/16 in (157 mm)	49857	$73.00



Triangle Single and Hanger



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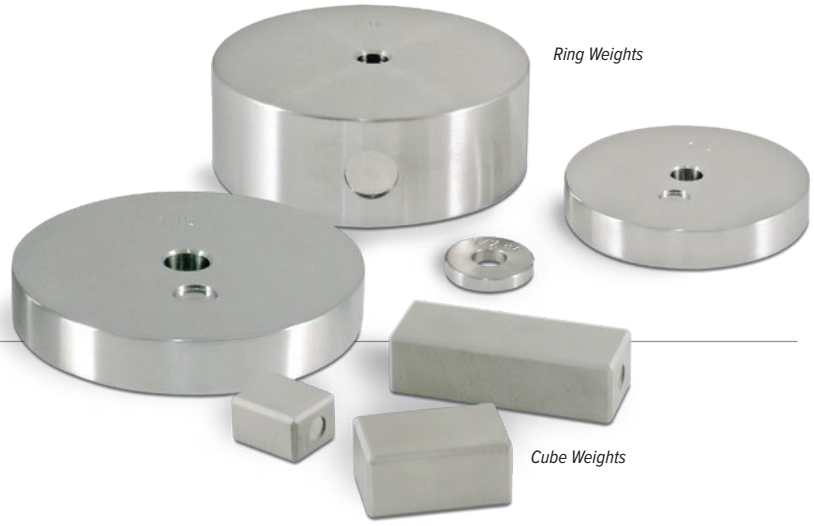
Range: 5 lb – 25 g

Class 5
Cube

Weight	Part #	Length	Width	Height	Price	Optional Certificate Accredited
2 lb	**12649**	1 in (25 mm)	2.4 in (61 mm)	3 in (76 mm)	$175.00	$99.75
1 lb	**12651**	1 in (25 mm)	1.2 in (31 mm)	3 in (76 mm)	$160.00	$99.75
8 oz	**12653**	1 in (25 mm)	1-9/10 in (48 mm)	1 in (25 mm)	$140.00	$99.75
2 oz	**12658**	0.60 in (15 mm)	0.70 in (18 mm)	1 in (25 mm)	$98.00	$99.75
4 oz	**12655**	1 in (25 mm)	0.98 in (19 mm)	1.3 in (33 mm)	$120.00	$99.75
1 kg	**12557**	3-3/8 in (87 mm)	1 in (25 mm)	2-1/2 in (63 mm)	$175.00	$99.75
500 g	**12552**	3-13/32 in (87 mm)	1 in (25 mm)	1-1/4 in (32 mm)	$140.00	$99.75
300 g	**12547**	1-1/4 in (32 mm)	2-1/32 in (52 mm)	1 in (25 mm)	$130.00	$99.75
200 g	**12544**	1-3/8 in (35 mm)	1-1/4 in (31 mm)	1 in (25 mm)	$120.00	$99.75
100 g	**12541**	1-7/32 in (31 mm)	3/4 in (19 mm)	1 in (25 mm)	$98.00	$99.75

Class 5
Ring

Weight	Part #	Outside Dia.	Inside Dia.	Height	Price	Optional Certificate Accredited
500 g	**12566**	3 in (76 mm)	25/64 in (10 mm)	37/64 in (15 mm)	$150.00	$57.75
200 g	**12563**	2 in (51 mm)	25/64 in (10 mm)	17/32 in (14 mm)	$125.00	$57.75
100 g	**12561**	1-1/2 in (38 mm)	25/64 in (10 mm)	1/2 in (13 mm)	$98.00	$99.75
50 g	**12560**	1-1/2 in (38 mm)	25/64 in (10 mm)	1/4 in (6 mm)	$83.00	$42.00
25 g	**12559**	1 in (25 mm)	25/64 in (10 mm)	5/16 in (8 mm)	$66.00	$42.00
5 lb	**12672**	4 in (102 mm)	25/64 in (10 mm)	1-7/16 in (37 mm)	$135.00	$84.00
3 lb	**12671**	3 in (76 mm)	25/64 in (10 mm)	1-35/64 in (36 mm)	$105.00	$84.00
2 lb	**12670**	3 in (76 mm)	25/64 in (10 mm)	1-1/32 in (26 mm)	$83.00	$68.25
1 lb	**12669**	3 in (76 mm)	25/64 in (10 mm)	33/64 in (13 mm)	$83.00	$68.25
8 oz	**12668**	2 in (51 mm)	25/64 in (10 mm)	39/64 in (16 mm)	$40.50	$42.00
4 oz	**12667**	1-1/2 in (38 mm)	25/64 in (10 mm)	9/16 in (14 mm)	$40.50	$42.00
2 oz	**12666**	1 1/2 in (38 mm)	25/64 in (10 mm)	9/32 in (7 mm)	$40.50	$42.00
1 oz	**12665**	1 in (25 mm)	25/64 in (10 mm)	11/32 in (9 mm)	$40.50	$42.00
1/2 oz	**12664**	1 in (25 mm)	25/64 in (10 mm)	11/64 in (4 mm)	$77.00	$42.00
1/4 oz	**12663**	1 in (25 mm)	25/64 in (10 mm)	3/32 in (2 mm)	$105.00	$42.00



Ring Weights

Cube Weights

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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Range: 500 oz t – 0.005 oz t

Class 5
Cylindrical

Weight	Part #	Height	Diameter	Price	Optional Certificate Accredited
500 oz t	**12719**	6-5/16 in (160 mm)	5 in (127 mm)	$1,260.00	$84.00
200 oz t	**12718**	3-3/4 in (95 mm)	4-25/32 in (121 mm)	$555.00	$84.00
100 oz t	**12717**	3-13/16 in (96 mm)	3 in (75 mm)	$335.00	$84.00
50 oz t	**12716**	2-5/8 in (67 mm)	2-21/32 in (68 mm)	$195.00	$84.00
20 oz t	**12715**	2-1/4 in (57 mm)	1-3/4 in (44 mm)	$98.00	$68.25
10 oz t	**12714**	1-3/8 in (35 mm)	1-29/32 in (48 mm)	$78.00	$42.00
5 oz t	**12713**	1-3/16 in (30 mm)	1-13/32 in (36 mm)	$78.00	$42.00
2 oz t	**12712**	7/8 in (22 mm)	31/32 in (25 mm)	$45.50	$42.00
1 oz t	**12711**	7/8 in (21 mm)	5/8 in (16 mm)	$42.00	$42.00
1/4 oz t	**12709**	11/16 in (17 mm)	3/8 in (9 mm)	$51.00	$42.00
1/8 oz t	**12708**	5/16 in (8 mm)	15/32 in (12 mm)	$51.00	$42.00
1/16 oz t	**12707**	3/8 in (9 mm)	1/4 in (6 mm)	$51.00	$42.00
1/32 oz t	**12706**	5/16 in (8 mm)	3/16 in (5 mm)	$51.00	$42.00
0.5 oz t	**12705**	1/2 in (13 mm)	23/32 in (18 mm)	$51.00	$42.00
0.2 oz t	**12704**	1/2 in (13 mm)	3/8 in (9 mm)	$51.00	$42.00
0.1 oz t	**12703**	5/16 in (8 mm)	13/32 in (10 mm)	$51.00	$42.00
0.05 oz t	**12702**	1/4 in (6 mm)	11/32 in (9 mm)	$51.00	$42.00

Class 5
Leaf

Weight	Part #	Height	Diameter	Price	Optional Certificate Accredited
0.02 oz t	**12701**	W × L (0.375 in × 0.287 in)	-	$39.50	$42.00
0.01 oz t	**12700**	W × L (0.312 in × 0.270 in)	-	$39.50	$42.00
0.005 oz t	**12699**	W × L (0.25 in × 0.22 in)	-	$39.50	$42.00



Cylindrical Weight

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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Range: 20 dwt – 20 gr

Class 5
Cylindrical

Weight	Part #	Price	Optional Certificate Accredited
20 dwt	**12698**	$83.00	$42.00
10 dwt	**12697**	$83.00	$42.00
5 dwt	**12696**	$83.00	$42.00
2 dwt	**12695**	$83.00	$42.00
1 dwt	**12694**	$83.00	$42.00

Class 5
Leaf

Weight	Part #	Price	Optional Certificate Accredited
0.5 dwt	**12693**	$74.00	$42.00
0.2 dwt	**12692**	$74.00	$42.00
0.1 dwt	**12691**	$74.00	$42.00

Class 5
Grain

Weight	Part #	Price	Optional Certificate Accredited
1 gr	**12726**	$28.00	$42.00
2 gr	**12727**	$31.50	$42.00
5 gr	**12730**	$31.50	$42.00
10 gr	**12733**	$31.50	$42.00
20 gr	**12736**	$39.50	$42.00



Pennyweight Leaf Weight



Cylindrical

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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Range: 1kg – 1mg

Class 5
Cube Avoirdupois

Set Size	Part #	Price	Optional Certificate Accredited
8 oz - 1/16 oz	**12630**	$360.00	$241.50
(3) 2 lb - 1/16 oz	**12652**	$1,050.00	$399.00
(3) 2 lb - .001 lb	**12659**	$1,190.00	$477.75
(14) 2 lb - 1/16 oz	**12585**	$1,730.00	$966.00

Class 5
Cube Metric

Set Size	Part #	Price	Optional Certificate Accredited
300 g - 10 g	**12545**	$365.00	$294.00
(14) 1 kg - 1 mg	**12553***	$2,400.00	$1,048.95
(3) 1 kg - 1 mg	**12555***	$1,500.00	$677.25

Weight Set Contents

8 oz - 1/16 oz	2 lb - 1/16 oz	2 lb - 0.001 lb	2 lb - 1/16 oz
12630	**12652**	**12659**	**12585**
1 - 8 oz*	3 - 2 lb*	3 - 2 lb*	14 - 2 lb*
1 - 4 oz*	1 - 1 lb*	1 - 1 lb*	2 - 1 lb*
1 - 2 oz*	1 - 8 oz*	1 - 0.3 lb	1 - 8 oz*
1 - 1 oz	1 - 4 oz*	1 - 0.2 lb	1 - 4 oz*
1 - 1/2 oz	1 - 2 oz*	1 - 0.1 lb	1 - 2 oz*
1 - 1/4 oz	1 - 1 oz	1 - 0.05 lb	1 - 1 oz
1 - 1/8 oz	1 - 1/2 oz	1 - 0.03 lb	1 - 1/2 oz
2 - 1/16 oz	1 - 1/4 oz	1 - 0.02 lb	1 - 1/4 oz
	1 - 1/8 oz	1 - 0.01 lb	1 - 1/8 oz
	2 - 1/16 oz	1 - 0.005 lb	2 - 1/16 oz
		1 - 0.003 lb	
		1 - 0.002 lb	
		2 - 001 lb	
9 pcs. **1 lb set wt.**	**13 pcs.** **8 lb set wt.**	**16 pcs.** **7.72 lb set wt.**	**25 pcs.** **31 lb set wt.**

300 g - 10 g	1 kg - 1 mg	1 kg - 1 mg
12545	**12553**	**12555**
-	14 - 1 kg*	3 - 1 kg*
-	2 - 500 g*	1 - 500 g*
1 - 300 g*	1 - 300 g*	1 - 300 g*
1 - 200 g*	1 - 200 g*	1 - 200 g*
1 - 100 g*	1 - 100 g*	1 - 100 g*
1 - 50 g	1 - 50 g	1 - 50 g
1 - 30 g	1 - 30 g	1 - 30 g
1 - 20 g	1 - 20 g	1 - 20 g
1 - 10 g	1 - 10 g	1 - 10 g
1 - 5 g	1 - 5 g	1 - 5 g
1 - 3 g	1 - 3 g	1 - 3 g
1 - 2 g	1 - 2 g	1 - 2 g
1 - 1 g	1 - 1 g	1 - 1 g
1 - 500 mg	1 - 500 mg	1 - 500 mg
1 - 300 mg	1 - 300 mg	1 - 300 mg
1 - 200 mg	1 - 200 mg	1 - 200 mg
1 - 100 mg	1 - 100 mg	1 - 100 mg
1 - 50 mg	1 - 50 mg	1 - 50 mg
1 - 30 mg	1 - 30 mg	1 - 30 mg
1 - 20 mg	1 - 20 mg	1 - 20 mg
1 - 10 mg	1 - 10 mg	1 - 10 mg
	1 - 5 mg	1 - 5 mg
	1 - 3 mg	1 - 3 mg
	1 - 2 mg	1 - 2 mg
	1 - 1 mg	1 - 1 mg
7 pcs. **710 g set wt.**	**39 pcs** **15,722.221 g set wt.**	**27 pcs.** **4,222.221 g set wt.**

**Cube Weight*

Replacement Cases

Cube Avoirdupois Main Cases
Class 5

Set Size	Part #	Price
8 oz - 1/16 oz	**11510**	$39.50
(3) 2 lb - 1/16 oz	**11569**	$240.00
(3) 2 lb - .001 lb	**11569**	$240.00
(14) 2 lb - 1/16 oz	**40783**	$380.00

Cube Metric Main Cases
Class 5

Size	Part #	Price
300 g - 10 g	**11510**	$39.50
(14) 1 kg - 1 mg	**40783**	$380.00
(3) 1 kg - 1 mg	**11569**	$240.00

Inserts
Class 5

Size	Part #	Price
300 g - 10 g	**11526**	$42.00
5 g - 1 mg	**11527**	$39.50
(2) 50 g - 1 mg	**11528**	$42.00
1 kg - 1 mg	**11526**	$42.00
(3) 1 kg - 1 mg	**11526**	$42.00

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Leaf weight cover	**11758**	$45.50
Tweezer	**65640**	$22.25
Serial number	**25836**	$17.00
Premium tweezer	**152414**	$45.50

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Range: 25 kg – 1/32 oz

Class 6
Hook Metric

Weight	Part #	Diameter	Hanging Height	Opening Diameter	Price	Optional Certificate Accredited
25 kg	**12720**	5-31/32 in (152 mm)	9-3/16 in (233 mm)	1/4 in (6 mm)	$995.00	$78.75
20 kg	**12725**	5-31/32 in (152 mm)	8-3/8 in (213 mm)	1/4 in (6 mm)	$975.00	$78.75
10 kg	**12732**	4 in (102 mm)	9-1/16 in (230 mm)	1/4 in (6 mm)	$670.00	$78.75
5 kg	**12735**	3-3/4 in (95 mm)	6-11/32 in (161 mm)	1/4 in (6 mm)	$335.00	$78.75
4 kg	**161608**	3-1/2 in (89 mm)	6.12 in (155 mm)	1/4 in (6 mm)	$330.00	$78.75
3 kg	**96403**	2-5/8 in (67 mm)	5-1/16 in (129 mm)	1/4 in (6 mm)	$310.00	$78.75
2 kg	**12739**	2-5/8 in (67 mm)	5-17/32 in (136 mm)	1/4 in (6 mm)	$240.00	$78.75
1 kg	**12744**	2 in (51 mm)	5-3/8 in (137 mm)	1/4 in (6 mm)	$135.00	$57.75
500 g	**12747**	1-5/8 in (41 mm)	4-1/2 in (114 mm)	5/32 in (4 mm)	$115.00	$57.75
300 g	**96404**	1-1/4 in (32 mm)	4-1/2 in (114 mm)	5/32 in (4 mm)	$115.00	$57.75
200 g	**12748**	1-1/8 in (29 mm)	3 in (76 mm)	3/32 in (2 mm)	$115.00	$57.75
100 g	**12749**	1 in (25 mm)	2-3/8 in (60 mm)	3/32 in (2 mm)	$98.00	$42.00
50 g	**12750**	3/4 in (19 mm)	2-1/4 in (57 mm)	3/32 in (2 mm)	$98.00	$42.00
30 g	**96405**	5/8 in (16 mm)	2-1/8 in (54 mm)	3/32 in (2 mm)	$98.00	$42.00
20 g	**12751**	5/8 in (16 mm)	2-1/8 in (54 mm)	3/32 in (2 mm)	$98.00	$42.00
10 g	**12754**	1/2 in (13 mm)	2 in (50.8 mm)	3/32 in (2 mm)	$72.00	$42.00

Hook Only

Weight	Part #	Diameter	Hanging Height	Opening Diameter	Price	Optional Certificate Accredited
5 g	**12757**	1/8 in (3 mm)	2-5/32 in (55 mm)	3/16 in (5 mm)	$66.00	$42.00
3 g	**96406**	3/32 in (2 mm)	2.32 in (59 mm)	3/16 in (5 mm)	$54.00	$42.00
2 g	**12762**	3/32 in (2 mm)	1-7/32 in (31 mm)	3/16 in (5 mm)	$57.00	$42.00
1 g	**12766**	1/16 in (2 mm)	1-21/32 in (42 mm)	3/16 in (5 mm)	$57.00	$42.00

Class 6
Hook Avoirdupois

Weight	Part #	Diameter	Hanging Height	Opening Diameter	Price	Optional Certificate Accredited
50 lb	**12894**	5-31/32 in (152 mm)	9-1/4 in (235 mm)	1/4 in (6 mm)	$995.00	$84.00
25 lb	**96408**	4-19/32 in (117 mm)	5-3/4 in (146 mm)	1/4 in (6 mm)	$900.00	$84.00
20 lb	**12895**	4 in (102 mm)	9-3/16 in (233 mm)	1/4 in (6 mm)	$650.00	$84.00
10 lb	**12896**	3-1/2 in (89 mm)	6-1/4 in (159 mm)	1/4 in (6 mm)	$330.00	$84.00
5 lb	**12897**	2-5/8 in (67 mm)	6-1/2 in (165 mm)	1/4 in (6 mm)	$230.00	$84.00
3 lb	**96409**	2-1/4 in (57 mm)	4-1/32 in (102 mm)	1/4 in (6 mm)	$210.00	$84.00
2 lb	**12898**	2 in (51 mm)	5 in (127 mm)	1/4 in (6 mm)	$135.00	$68.25
1 lb	**12899**	1-5/8 in (41 mm)	4-1/2 in (114 mm)	5/32 in (4 mm)	$98.00	$68.25
0.2 lb	**96410**	1 in (25 mm)	2-5/16 in (59 mm)	3/32 in (2 mm)	$83.00	$42.00
0.1 lb	**96411**	3/4 in (19 mm)	2-5/32 in (55 mm)	3/32 in (2 mm)	$83.00	$42.00
8 oz	**12900**	1-1/4 in (32 mm)	4 in (102 mm)	5/32 in (4 mm)	$83.00	$42.00
4 oz	**12901**	1 in (25 mm)	2-1/4 in (57 mm)	3/32 in (2 mm)	$83.00	$42.00
2 oz	**12902**	13/16 in (21 mm)	2-1/4 in (57 mm)	3/32 in (2 mm)	$83.00	$42.00
1 oz	**12903**	5/8 in (16 mm)	2-1/4 in (57 mm)	3/32 in (2 mm)	$83.00	$42.00
1/2 oz	**12904**	17/32 in (14 mm)	2-29/32 in (74 mm)	3/32 in (2 mm)	$77.00	$42.00

Hook Only

Weight	Part #	Diameter	Hanging Height	Opening Diameter	Price	Optional Certificate Accredited
1/4 oz	**12905**	5/32 in (4 mm)	1-13/16 in (46 mm)	3/16 in (5 mm)	$57.00	$42.00
1/8 oz	**12906**	1/8 in (3 mm)	1-1/8 in (27 mm)	3/16 in (5 mm)	$57.00	$42.00
1/16 oz	**12907**	3/32 in (2 mm)	1-1/4 in (32 mm)	3/16 in (5 mm)	$57.00	$42.00
1/32 oz	**12908**	1/16 in (2 mm)	1-13/32 in (36 mm)	3/16 in (5 mm)	$57.00	$42.00



Hook (only) Weight (5g - 1g) and (1/4-1/32 oz)

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00



Hook Weights

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Range: 5 lb – 100 g

Class 7
Stainless Steel Hanger

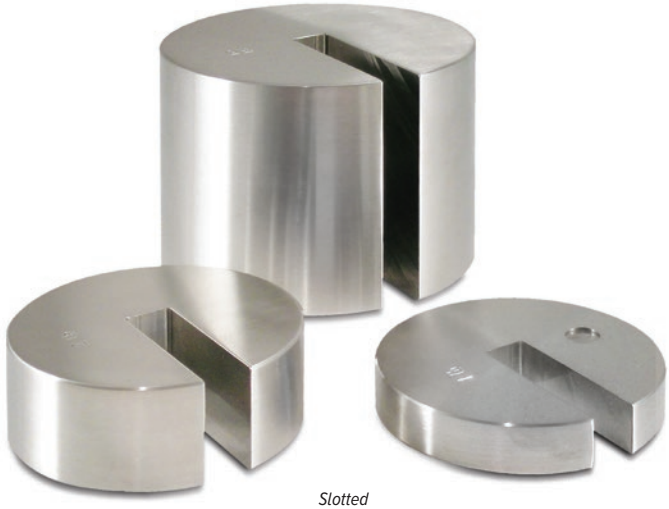
Weight	Part #	Length	Diameter	Total Cap	Price	Optional Certificate Accredited
5 lb	**12846**	37 1/4 in	4 in (102 mm)	500 lb	$350.00	$84.00
3 kg	**156937**	38 3/16 in	4 in (102 mm)	250 kg	$330.00	$78.75

Class 5
Slotted Avoirdupois

Weight	Part #	Diameter	Height	Slot Width	Price	Optional Certificate Accredited
10 lb	**12589**	4 in (102 mm)	3-1/8 in (79 mm)	1/2 in (13 mm)	$630.00	$84.00
5 lb	**12586**	4 in (102 mm)	1-9/16 in (40 mm)	1/2 in (13 mm)	$395.00	$84.00
2 lb	**12577**	3 in (76 mm)	1-9/64 in (29 mm)	1/2 in (13 mm)	$250.00	$68.25
1 lb	**12574**	3 in (76 mm)	19/32 in (15 mm)	1/2 in (13 mm)	$210.00	$68.25
8 oz	**12583**	2 in (51 mm)	45/64 in (18 mm)	1/2 in (13 mm)	$185.00	$42.00
4 oz	**12580**	1-1/2 in (38 mm)	11/16 in (18 mm)	1/2 in (13 mm)	$145.00	$42.00

Class 5
Slotted Metric

Weight	Part #	Diameter	Height	Slot Width	Price	Optional Certificate Accredited
5 kg	**156931**	4 in (102 mm)	3-1/8 in (79 mm)	1/2 in (13 mm)	$585.00	$78.75
2 kg	**156932**	4 in (102 mm)	1-9/16 in (40 mm)	1/2 in (13 mm)	$405.00	$78.75
1 kg	**156933**	3 in (76 mm)	1.27 in (32 mm)	1/2 in (13 mm)	$240.00	$57.75
500 g	**156934**	3 in (76 mm)	0.836 in (21 mm)	1/2 in (13 mm)	$220.00	$57.75
200 g	**156935**	1-1/2 in (38 mm)	0.801 in (20 mm)	1/2 in (13 mm)	$180.00	$57.75
100 g	**156936**	1-1/2 in (38 mm)	0.601 in (15 mm)	1/2 in (13 mm)	$120.00	$42.00



Slotted

Accessories

Description	Part #	Price
Statement of Accuracy	**36092**	$47.50
Serial number	**25836**	$17.00

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Range: 50 kg – 2,000 lb

Painted Steel Lift Truck Weights

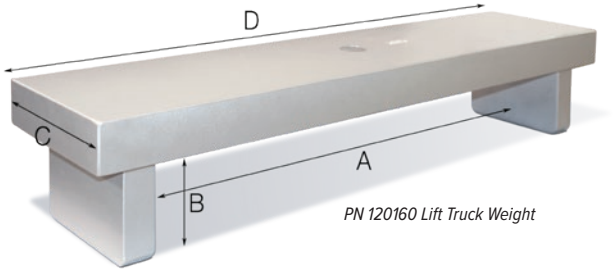
Class 6			Optional Certificate
Weight	Part #	Price	Accredited
1,000 lb	**120160**	$3,300.00	$246.75
2,000 lb	**120162**	$7,500.00	$246.75



Dimensions

PN 120160	
A	38.25 in
B	6.0 in
C	22.5 in
D	46.25 in

PN 120162	
A	34.25 in
B	6.0 in
C	22.5 in
D	46.25 in



PN 120160 Lift Truck Weight

Stainless Steel Clean Room Weight Cart

Class 6				Optional Certificate
Weight	Part #	Description	Price	Accredited
50 kg	**178045**	16 × 16 in	$5,025.00	$235.00
100 kg	**180033**	16 × 16 in	$5,650.00	$235.00
125 kg	**184463**	16 × 16 in	$6,275.00	$235.00
150 kg	**184464**	16 × 16 in	$6,700.00	$235.00
175 kg	**184465**	18 × 18 in	$7,025.00	$235.00
200 kg	**180624**	16 × 16 in	$7,025.00	$235.00
250 kg	**180625**	18 × 18 in	$8,900.00	$235.00
500 kg	**180034**	18 × 18 in	$15,850.00	$235.00

**Do not stack weights on carts.*



Clean Room, Weigh Cart (Calibration Optional)

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Weight Cases

Industrial

These heavy-duty cases are designed to be used in place of large wooden cases when portability is desired. The recessed latches provide protection assurance for your weights.



Injection-molded Cases

- Designed for custom weight sets
- Ergonomic top-mounted handle provides ideal weight positioning
- Interior is custom-molded to the weights to be stored

Injection-molded Cases

Length	Width	Closed Height	Max Load	Part #	Price
12.63 in	9.50 in	4.75 in	30.00 lb	**158121**	$345.00
7.70 in	5.00 in	3.30 in	15.00 lb	**226846**	$200.00
10.10 in	8.20 in	4.70 in	30.00 lb	**226847**	$265.00
15.90 in	11.20 in	6.00 in	60.00 lb	**227938**	$315.00
10.20 in	8.30 in	8.30 in	60.00 lb	**229113**	$295.00
12.70 in	9.50 in	4.80 in	30.00 lb	**226848**	$275.00
15.90 in	11.20 in	10.00 in	65.00 lb	**229140**	$290.00

Pelican™ Cases

- Pick N Pluck™ with convoluted lid foam
- Watertight, crushproof and dustproof
- Durable, lightweight container design
- Rubber over-molded handle
- Secure, integrated latches
- Stainless steel padlock protectors
- Custom inserts available upon request



Pelican Cases

Length	Width	Closed Height	Max Load	Part #	Price
17.00 in	22.00 in	8.00 in	75.00 lb	**21230**	$445.00
11.75 in	17.00 in	6.00 in	50.00 lb	**21229**	$300.00

Thermoformed Cases

- Excellent for transporting weights
- Recessed, heavy-duty latches confidently secure contents
- Ergonomic handles retain preferred treatment of weights
- Metal hardware resists natural wear and tear
- Special case cuttings are required for heavy duty cases at an additional charge



Thermoformed Cases

Length	Width	Closed Height	Max Load	Part #	Price
22.40 in	16.30 in	10.50 in	95.00 lb	**156989**	$890.00
16.40 in	11.40 in	9.00 in	55.00 lb	**156285**	$600.00
9.90 in	9.90 in	11.00 in	60.00 lb	**156284**	$480.00

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Weight Cases

Medium-duty

Medium-duty cases are primarily used for manually transporting test weights as they effectively absorb shock and resist changes in environment.



Wooden Cases

(Other cases and sizes available by custom order)

- Walnut-constructed and felt-lined
- Built-to-order and designed specifically for your weight sets
- Not available as an accessory purchase
- Available in 5 to 20 kg capacities
- Secured by hinged latches
- Case keeps weights free of dust and contaminants
- Protects your weights in storage and during transportation
- Cases should be packed in an external box during shipping to protect them

Wooden

Description	Part #	Price
Wooden case built-to-order for field standards and balance calibration weights, 500 g to 1 mg range	**34645**	$350.00

PVC Cases

(Other cases and sizes available by custom order)

- Available in capacities from 100 g to 1 mg for Precision Mass Reference Standards
- Also available for ASTM Class 0 weights in 100 g to 1 mg capacities



PVC

Description	Part #	Price
PVC case for precision laboratory mass reference standards, 100 g to 1 mg range (5-3-2-1 configuration)	**11596**	$190.00
PVC case for precision laboratory mass reference standards, 100 g to 1 mg range (5-2-2-1 configuration)	**11588**	$190.00
PVC case for precision laboratory mass reference standards, 1 mg to 500 mg range (5-2-2-1 configuration)	**11763**	$90.00

Weight Cases

Light-duty

Light-duty cases can be used to secure weights before packaging for shipment. These are primarily for single weights not exceeding 5 pounds.

Plastic Weight Cases

- Light-duty plastic cases are used for shipping lighter capacity weights—typically single weights not exceeding 5 lb
- Plastic hinges, latches and side-mounted handle keep this case extremely lightweight and portable
- Uncut foam is included while custom-cut is available for an extra charge
- Custom-cut foam insert protects each weight from impact during transport



Plastic

Length	Width	Closed Height	Max Load	Part #	Price
8.00 in	12.00 in	3.50 in	5.00 lb	**87982**	$86.00

Leatherette Weight Cases

- Secure storage of single weights with snap lid
- Considered light duty and used for storage and shipping
- Leatherette in a non-porous material—ideal weight protection
- Three sizes of leatherette cases available



Leatherette

Length	Width	Closed Height	Max Load	Part #	Price
1.88 in	3.75 in	1.06 in	3 lb	**69429**	$39.50
2.50 in	3.43 in	.875 in	1 lb	**69229**	$39.50

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Weight Cases

Clean Room

Clean room weigh cases are durable solutions to protect weights while complying with strict clean room requirements.

Acrylic

- Ideal for all clean room environments
- Tough, clear acrylic protects your valuable investment
- Provide compliance for stringent clean room requirements
- Not recommended for shipping; developed exclusively for storage
- Available as an accessory only
- Optional custom inserts available up request



Shown with optional insert

Acrylic Clean Room

Length	Width	Closed Height	Part #	Price
3.04 in	6.04 in	1.80 in	**89179**	$135.00
4.70 in	8.70 in	2.80 in	**89180**	$245.00
5.25 in	12.00 in	4.00 in	**89181**	$385.00
8.50 in	13.25 in	5.75 in	**89182**	$605.00
PVC Insert			**Consult**	Consult

Polycarbonate Cases

- Light-duty cases for single weights
- Suitable for clean room storage and shipping lighter capacity weights
- Three case sizes with different insert sizes
- Transparent lid for easy weight identification
- Secure-latch lid for weight protection



Polycarbonate

Length	Width	Closed Height	Part #	Price
4.25 in	4.25 in	4.88 in	**Consult**	$32.00
3.12 in	3.12 in	3.61 in	**Consult**	$32.00
2.25 in	2.25 in	2.45 in	**Consult**	$35.00

Sealers Cube Wt - With Precut Foam Insert

Length	Width	Closed Height	Part #	Price
9.38 in	14.38 in	7.63 in	**40783**	$380.00

Protection Containers

Description	Part #	Price
Capsule	**80420**	$5.25
Vial	**50038**	$5.25

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Sealing Plugs

Lead

Diameter	Part #	Price
2.75 in (69.8 mm)	**11749**	$6.00
1.88 in (47.6 mm)	**11750**	$5.25
1.00 in (25.4 mm)	**11751**	$4.75
0.50 in (12.7 mm)	**11752**	$4.75
1.25 in (31.7 mm)	**11753**	$4.75
0.56 in (14.3 mm)	**11760**	$4.75
0.63 in (15.9 mm)	**11761**	$4.75
0.75 in (19.1 mm)	**11765**	$4.75
0.88 in (22.2 mm)	**11785**	$4.75

Aluminum

Diameter	Part #	Price
0.38 in (9.5 mm)	**11744**	$2.75
0.50 in (12.7 mm)	**11745**	$2.75
0.63 in (15.9 mm)	**11746**	$2.75
1.00 in (25.4 mm)	**11762**	$2.75
0.56 in (14.3 mm)	**11767**	$4.75
0.88 in (22.2 mm)	**11775**	$4.25
0.75 in (19.1 mm)	**11776**	$2.75

Backup

Diameter	Part #	Price
2.75 in (69.8 mm)	**11748**	$6.75
0.75 in (19.1 mm)	**11766**	$4.75
1.00 in (25.4 mm)	**11710**	$2.75
1.88 in (47.6 mm)	**11699**	$2.75

Backup Stainless Steel

Diameter	Part #	Price
1.00 in (25.4 mm)	**44992**	$2.75
0.63 in (15.9 mm)	**44993**	$5.25
0.33 in (9.5 mm)	**44994**	$6.00

Stainless Steel

Diameter	Part #	Price
0.94 in (23.0 mm)	**11709**	$4.75



Canvas Dust Covers

Canvas Dust Covers

Weight Part #	Capacity	Cover Part #	Price
12890	200 lb	**11720**	$235.00
12844	500 lb	**11722**	$235.00
12880	750 lb	**11723**	$235.00
12850	1,000 lb	**11724**	$235.00
12858	1,250 lb	**11727**	$235.00
12866	2,000 lb	**11729**	$235.00

Weight Part #	Capacity	Cover Part #	Price
12817	100 kg	**11738**	$235.00
12782	250 kg	**11740**	$235.00
12797	500 kg	**11741**	$235.00
12801	1,000 kg	**11742**	$235.00
12821	2,000 kg	**11743**	$235.00



Gloves

Cotton 11714

- Essential tool for proper weight-handling
- Proper protection for preventing hand residue
- Residue can impact a weight's calibration and certification for accuracy
- Rice Lake recommends using cotton gloves to handle all precision weights



Nitrile 11773

- Nitrile glove are an acceptable handling tool to keep dirt and residue off your weights
- Better than handling precision weights bare-handed
- Nitrile glove are economical, disposable, convenient and help maintain the integrity of your weights



Gloves

Description	Part #	Price
Cotton glove	**11714**	$7.25
Nitrile glove	**11773**	$3.50

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Transfer Equipment

Transfer Equipment

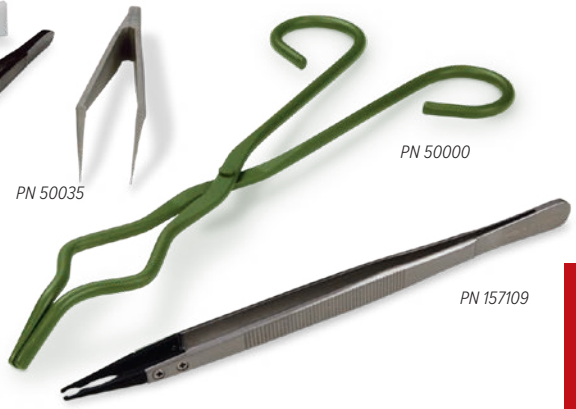
Set Size	Part #	Price
Forceps, 3.63 in 100 g - 1 mg	**11711**	$5.25
Forceps, 4.75 in	**50035**	$45.50
Plastic bar 200 g - 3 kg, screw knob weights	**11747**	$22.25
Metal handle 5 kg +, screw knob weights	**11712**	$77.00
Metal forceps *Not recommended for use with polished weights.*	**65640**	$22.25
Weight lifter, OIML 2 kg and 5 kg	**50037**	$57.00
Tong assembly, 24 cm × 7.5 cm	**50000**	$78.00
Tweezers, premium, 140 mm	**152414**	$45.50
Tweezers, premium, 220 mm	**157109**	$51.00



PN 11711

PN 65640

PN 50035



PN 50000

PN 157109



PN 152414



PN 11712

PN 50037

PN 11747

Transfer Cart

Transfer Cart

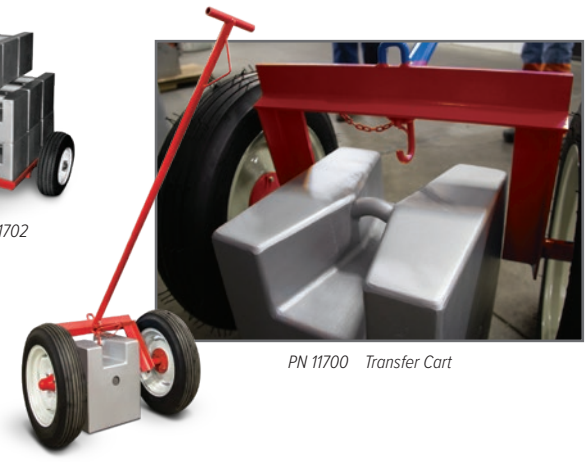
Description	Part #	Price
36.50 × 74.50 × 29.00 in (927.1 × 1892.3 × 736.6 mm) *For use on smooth, level surfaces—especially for moving 500 or 1,000 lb heavy-capacity weights.*	**11700**	$1,810.00
25.00 × 37.50 × 14.50 in (635 × 952.5 × 368.3 mm) *For use on smooth, level surfaces—for holding up to fifteen 50 lb grip-handle weights.*	**11702**	$2,070.00

Hook Replacement Parts

Description	Part #	Price
Short hook for 1,000 lb weight	**22643**	$48.00
Long hook for 500 lb weight	**22644**	$48.00



PN 11702



PN 11700 Transfer Cart

Touch-Up Paint

Touch-up/Repair Paint

Ships UPS ground only. These are NOT available for export.

Description	Part #	Price
Aerosol spray (gold)	**88561**	$34.00
Aerosol spray (silver)	**88562**	$34.00
Aerosol spray (primer)	**88563**	$34.00



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Checkweighers

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Checkweighers **303**

CW-90 ..... **304**
Over/Under Checkweigher

CW-90X **306**
Over/Under Washdown Checkweigher

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CW-90

Over/Under Checkweigher



WeighVault

REVOLUTION SCALE SOFTWARE

Approvals

Measurement Canada Approved

Standard Features

- Membrane keypad consisting of: zero, units, print, tare, over, under, ID, target, 0-9, clear, decimal, enter, menu, power
- 304 stainless steel
- PreVent™ breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, g, lb, oz, lb/oz (lb/oz is not Legal for Trade)
- High-intensity LED display
- Battery backed time and date
- Two full-duplex RS-232 serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or fiber optic
- Four configurable Digital I/O
- Auto-print capability
- Accumulator
- Factory calibrated

Scale

- Aluminum, environmentally sealed load cell
- 304 stainless steel
- Meets HACCP requirements
- Five-point overload protection

Specifications

Power AC:
Line Voltages: 115/230 VAC

Frequency:
50/60 Hz

Power Consumption:
1.5 A at 115 VAC (8 W)
0.75 A at 230 VAC (8 W)

Measurement Rate:
960, 480, 240, 120, 60, 30, 15, 7.5 per second

System Linearity:
±0.01% full scale

Digital I/O:
Four channels on CPU board

Circuit Protection:
RFI, EMI, ESD protection

Display:
Large 0.8 in, 14 segment, six digit high-intensity red LED display

Scale Frame:
AISI304L, straight line finish, Ra=45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Annunciators:
Designators for %, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

Temperature :
Certified: 14 °F to 104 °F (-10 °C to 40 °C)

Rating/Material:
IP66, stainless steel

Resolution:
Display: 100,000

Load Cell:
Aluminum, environmentally sealed

Warranty:
Two-year limited

Approvals:

Indicator:
NTEP 08-092, Class III/IIIL 10,000 d
Measurement Canada AM-5710, Class III 10,000 d
OIML R76/2006-GBI-10.02
EU Legal for Trade TC11569
CE Marked
cULus Listed

Scale:
NTEP 95-072, Class III 5,000 d
Measurement Canada AM-5082
NSF

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Part Number/Price

Part #	Capacity	Platform Dimensions	Column Height	Est. Weight	Price
115 VAC					
105957†	5 × 0.001 lb (2.5 × 0.0005 kg) or (80 × 0.02 oz)	10 × 10 × 4.25 in	12 in	29 lb	$1,835.00
105958†	10 × 0.002 lb (5 × 0.001 kg) or (160 × 0.05 oz)	10 × 10 × 4.25 in	12 in	29 lb	$1,835.00
105959†	25 × 0.005 lb (10 × 0.002 kg) or (400 × 0.1 oz)	10 × 10 × 4.25 in	12 in	29 lb	$1,835.00
105960†	25 × 0.005 lb (10 × 0.002 kg) or (400 × 0.1 oz)	12 × 12 × 4.25 in	12 in	33 lb	$1,930.00
105961†	50 × 0.01 lb (25 × 0.005 kg) or (800 × 0.2 oz)	12 × 12 × 4.25 in	12 in	33 lb	$1,930.00
105962†	100 × 0.02 lb (50 × 0.01 kg) or (1,600 × 0.5 oz)	12 × 12 × 4.25 in	12 in	33 lb	$1,930.00
230 VAC					
118891†	2.5 × 0.0005 kg (5 × 0.001 lb) or (80 × 0.02 oz)	10 × 10 × 4.25 in	12 in	29 lb	$1,835.00
118892†	5 × 0.001 kg (10 × 0.002 lb) or (160 × 0.05 oz)	10 × 10 × 4.25 in	12 in	29 lb	$1,835.00
118893†	10 × 0.002 kg (25 × 0.005 lb) or (400 × 0.1 oz)	10 × 10 × 4.25 in	12 in	29 lb	$1,835.00
118895†	10 × 0.002 kg (25 × 0.005 lb) or (400 × 0.1 oz)	12 × 12 × 4.25 in	12 in	33 lb	$1,930.00
118896†	25 × 0.005 kg (50 × 0.01 lb) or (800 × 0.2 oz)	12 × 12 × 4.25 in	12 in	33 lb	$1,930.00
118897†	50 × 0.01 kg (100 × 0.02 lb) or (1,600 × 0.5 oz)	12 × 12 × 4.25 in	12 in	33 lb	$1,930.00
230 VAC CE marked/OIML approved					
106123††	3 × 0.001 kg	254 × 254 × 108 mm	305 mm	13.2 kg	$1,835.00
106124††	6 × 0.002 kg	254 × 254 × 108 mm	305 mm	13.2 kg	$1,835.00
106125††	15 × 0.005 kg	254 × 254 × 108 mm	305 mm	13.2 kg	$1,835.00
106126††	15 × 0.005 kg	305 × 305 × 108 mm	305 mm	15 kg	$1,930.00
106127††	30 × 0.01 kg	305 × 305 × 108 mm	305 mm	15 kg	$1,930.00
106128††	60 × 0.02 kg	305 × 305 × 108 mm	305 mm	15 kg	$1,930.00

† *NEMA 5-15 plug*

†† *CEE 7/7 plug*

Options/Accessories

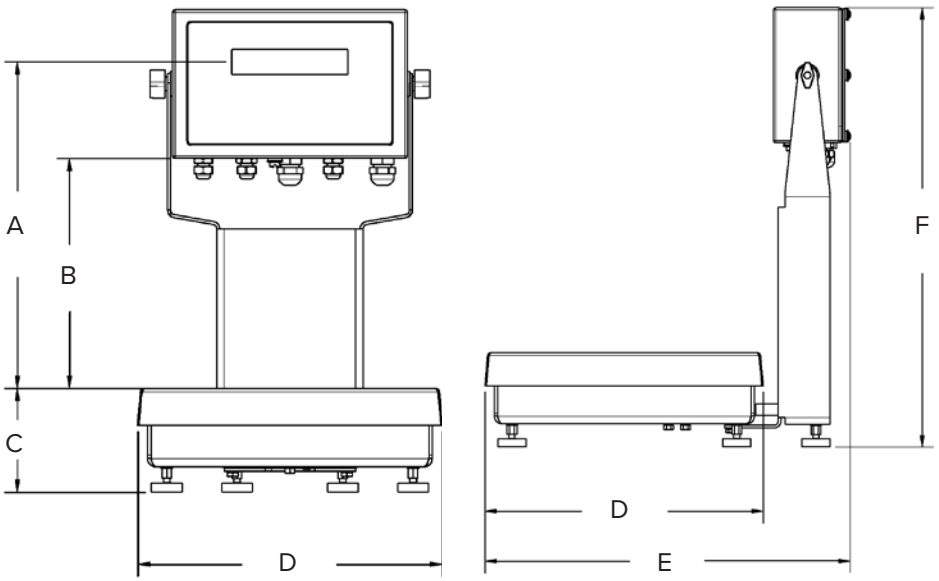
Part #	Description	Price
200578	Ethernet TCP/IP and cable with attached cord grip	$595.00
77142	Ethernet TCP/IP card	$545.00
206272	Wireless LAN card RS232/Wi-Fi 802.11 a/b	$610.00
171968	Firmware download cable	$39.00
78026	Fiber-optic, duplex cable 100 ft	$185.00
80892	Fiber-optic cutter	$15.00
117358	WeighVault™ (requires part number 200578, 77142 or 206272)	$265.00

Note: 1 in=25.4 mm

Dimensions

CW-90		
	10 × 10 in	**12 × 12 in**
A	13.25 in	13.25 in
B	9.25 in	9.25 in
C	4.25 in	4.25 in
D	10.25 in	12.25 in
E	14.25 in	16.25 in
F	19.50 in	19.50 in

Note: 1 in=25.4 mm



CHECKWEIGHERS

CW-90X

Over/Under Washdown Checkweigher



WeighVault

REVOLUTION SCALE SOFTWARE

Approvals

Measurement Canada Approved

Standard Features

- Piezo keypad : zero, units, print, tare, over, under, ID, target, enter, menu, power
- 304 stainless steel
- PreVent™ breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, g, lb, oz, lb/oz (lb/oz is not Legal for Trade)
- High-intensity LED display
- Battery backed time and date
- Two full-duplex RS-232 serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or fiber optic
- Four configurable Digital I/O
- Auto print capability
- Accumulator
- Factory calibrated

Scale Base

- 304 stainless steel
- Meets HACCP requirements
- Five point overload protection

Specifications

Power AC:
Line Voltages: 115/230 VAC

Frequency:
50/60 Hz

Power Consumption:
1.5 A at 115 VAC (8 W)
0.75 A at 230 VAC (8 W)

Measurement Rate:
960, 480, 240, 120, 60, 30, 15, 7.5 per second

System Linearity:
±0.01% full scale

Digital I/O:
Four channels on CPU board

Circuit Protection:
RFI, EMI, ESD protection

Display:
Large 0.8 in, 14 segment, six digit high-intensity red LED display

Scale Frame:
AISI304L, straight line finish, Ra=45 ± 10

Scale Cover:
AISI304L, straight line finish, Ra=45 ± 10

Annunciators:
Designators for %, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)

Rating/Material:
IP69K, stainless steel

Resolution:
Display: 100,000

Load Cell:
IP69K , hermetically sealed
Stainless steel

Warranty:
Three-year limited

Approvals:

Indicator:
NTEP 08-092, Class III/IIIL 10,000 d
Measurement Canada AM-5710, Class III 10,000 d
OIML R76/2006-GBI-10.02
EU Legal for Trade TC11569
CE Marked
cULus Listed

Scale:
NTEP 95-072, Class III 5,000 d
Measurement Canada AM-5082
NSF

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Part Number/Price

Part #	Capacity	Platform Dimensions	Column Height	Est. Weight	Price
115 VAC					
105963†	5 × 0.001 lb (2.5 × 0.0005 kg) or (80 × 0.02 oz)	10 × 10 × 4.25 in	12 in	29 lb	$2,475.00
105965†	10 × 0.002 lb (5 × 0.001 kg) or (160 × 0.05 oz)	10 × 10 × 4.25 in	12 in	29 lb	$2,475.00
105966†	25 × 0.005 lb (10 × 0.002 kg) or (400 × 0.1 oz)	10 × 10 × 4.25 in	12 in	29 lb	$2,475.00
105967†	25 × 0.005 lb (10 × 0.002 kg) or (400 × 0.1 oz)	12 × 12 × 4.25 in	12 in	33 lb	$2,570.00
105968†	50 × 0.01 lb (25 × 0.005 kg) or (800 × 0.2 oz)	12 × 12 × 4.25 in	12 in	33 lb	$2,570.00
105969†	100 × 0.02 lb (50 × 0.01 kg) or (1,600 × 0.5 oz)	12 × 12 × 4.25 in	12 in	33 lb	$2,570.00
230 VAC					
118899†	2.5 × 0.0005 kg (5 × 0.001 lb) or (80 × 0.02 oz)	10 × 10 × 4.25 in	12 in	29 lb	$2,475.00
118900†	5 × 0.001 kg (10 × 0.002 lb) or (160 × 0.05 oz)	10 × 10 × 4.25 in	12 in	29 lb	$2,475.00
118901†	10 × 0.002 kg (25 × 0.005 lb) or (400 × 0.1 oz)	10 × 10 × 4.25 in	12 in	29 lb	$2,475.00
118902†	10 × 0.002 kg (25 × 0.005 lb) or (400 × 0.1 oz)	12 × 12 × 4.25 in	12 in	33 lb	$2,570.00
118903†	25 × 0.005 kg (50 × 0.01 lb) or (800 × 0.2 oz)	12 × 12 × 4.25 in	12 in	33 lb	$2,570.00
118904†	50 × 0.01 kg (100 × 0.02 lb) or (1,600 × 0.5 oz)	12 × 12 × 4.25 in	12 in	33 lb	$2,570.00
230 VAC CE marked/OIML approved					
106129††	3 × 0.001 kg	254 × 254 × 108 mm	305 mm	13.2 kg	$2,475.00
106130††	6 × 0.002 kg	254 × 254 × 108 mm	305 mm	13.2 kg	$2,475.00
106131††	15 × 0.005 kg	254 × 254 × 108 mm	305 mm	13.2 kg	$2,475.00
106132††	15 × 0.005 kg	305 × 305 × 108 mm	305 mm	15 kg	$2,570.00
106133††	30 × 0.01 kg	305 × 305 × 108 mm	305 mm	15 kg	$2,570.00
106134††	60 × 0.02 kg	305 × 305 × 108 mm	305 mm	15 kg	$2,570.00

† *NEMA 5-15 plug*

†† *CEE 7/7 plug*

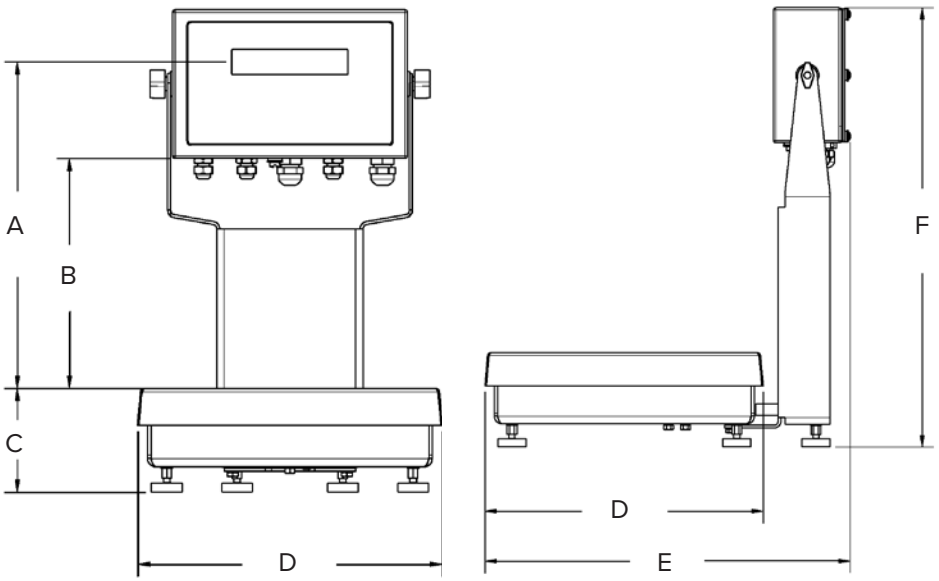
Options/Accessories

Part #	Description	Price
200578	Ethernet TCP/IP and cable with attached cord grip	$595.00
77142	Ethernet TCP/IP card	$545.00
206272	Wireless LAN card RS232/Wi-Fi 802.11 a/b	$610.00
171968	Firmware download cable	$39.00
78026	Fiber-optic, duplex cable 100 ft	$185.00
80892	Fiber-optic cutter	$15.00
117358	WeighVault™ (requires part number 200578, 77142 or 206272)	$265.00

Dimensions

CW-90X		
	10 × 10 in	12 × 12 in
A	13.25 in	13.25 in
B	9.25 in	9.25 in
C	4.25 in	4.25 in
D	10.25 in	12.25 in
E	14.25 in	16.25 in
F	19.50 in	19.50 in

Note: 1 in=25.4 mm



CHECKWEIGHERS

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Concrete Batch Controllers

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1280 FlexWeigh Systems
Concrete Batcher 310
Decumulative/Accumulative Batcher

Concrete Batcher Questionnaire 312

CONCRETE BATCH CONTROLLERS

Product names, logos, brands and other trademarks featured or referred to within this publication are the property of their respective trademark holders.

1280 FlexWeigh Systems Concrete Batcher

Decumulative/Accumulative Batcher



Standard Features

- Powered by 1280 Enterprise™ Series indicator
- Large color touchscreen display
- Remote batching through web server integration
- Front panel control switches and emergency stop
- Automatic or manual batching modes
- Configurable from two to five scales (one to two cement scales, and one to three material bins)
- Up to four admixes (bottled or direct)
- Manual entry of moisture compensation percentage
- Metered water controlled by onboard DIO
- Import/export databases via USB, Revolution® or Interchange software
- Configurable batch transaction ticket
- Storage for 1,000 transactions, 1,000 mix designs and 500 customers
- Available with English or Spanish operation and in imperial or metric measurements

Options

- Desktop stand
- Sun visor

Part Number/Price

Part #	Description	Price
208907	Decumulative batcher	$15,950.00
216733	Accumulative batcher	$16,950.00
212392	Sun visor	$500.00
212234	Desktop kiosk stand	$450.00

Specifications

Power:
100 to 240 VAC; 50/60 Hz

Excitation Voltage:
10 VDC (± 0.5 Volts)
16 × 350 ohm or 32 × 700 ohm load cells per A/D card

Analog Signal Input Range:
-60 mV to 60 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum at 7.5 to 120 Hz
1.0 µV/graduation recommended

A/D Sample Rate:
7.5 to 960 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 1,000,000

System Linearity:
± 0.01% full scale

Communication Ports:
Port 1 & 2: Full duplex RS-232 with CTS/RTS, RS-422/485
Baud Rate: 1200 to 115200
Port 3: USB 2.0 Device (Micro)
USB Host: (2) Type A Connectors max 500 mA
Ethernet: Wired 10/100 Auto-MDX
Ethernet: Wireless 802.11 b/g/n 2.4 GHz

Onboard:
Selectable filters: Three stage, adaptive or damping
Embedded Linux® OS
8 GB eMMC (system use)
1 GB DDR3 RAM
460 MB onboard database (SQLite) storage
Up to 32 GB micro SD card

Display:
12-inch, 1280 × 800 pixel, 1,500 NIT

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -4 °F to 131 °F (-20 °C to 55 °C)

Rating/Material:
Painted mild steel enclosure
NEMA Type 4; IP66

Dimensions:
20 × 20 × 8 in

Warranty:
Two-year limited

EMC Immunity:
EN 50082 Part 2 IEC
EN 61000-4-2, 3, 4, 5, 6, 8, 11

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1280 FlexWeigh Systems Concrete Batcher

Decumulative/Accumulative Batcher

Front Panel Switches	Decumulative Batcher	Accumulative Batcher
Auto/Manual	x	x
E-Stop	x	x
Conveyor Start/Run*	x	x
Bin 1*	x	x
Bin 2*	x	x
Bin 3*	x	x
Cement 1*	x	x
Cement 2*	x	x
Water*	x	x
Admix 1*	x	x
Admix 2*	x	x
Admix 3*	x	x
Admix 4*	x	x
Aggregate Hopper		x
Cement Hopper		x

** Available in Manual Mode*

Outputs	Decumulative Batcher	Accumulative Batcher
Conveyor Start/Run	x	x
Alarm/Horn	x	x
Bin 1 Discharge	x	x
Bin 1 Vibration	x	x
Bin 2 Discharge	x	x
Bin 2 Vibration	x	x
Bin 3 Discharge	x	x
Bin 3 Vibration	x	x
Cement Hopper Gate (Close)		x
Cement Hopper Gate (Open)		x
Cement Silo 1 Feed	x	x
Cement Silo 2 Feed	x	x
Cement Weigh Hopper Air		x
Cement Weigh Hopper Vibration		x
Cement Silo 1 Air	x	x
Cement Silo 2 Air	x	x
Water Fill/Feed	x	x
Weighed Water Discharge Gate		x
Admixture 1 Discharge	x	x
Admixture 1 Fill/Feed	x	x
Admixture 2 Discharge	x	x
Admixture 2 Fill/Feed	x	x
Admixture 3 Discharge	x	x
Admixture 3 Fill/Feed	x	x
Admixture 4 Discharge	x	x
Admixture 4 Fill/Feed	x	x
Aggregate Hopper Gate (Close)		x
Aggregate Hopper Gate (Open)		x
Aggregate Hopper Vibration		x
Aggregate Weigh Hopper Air		x
Dust Collector 1	x	x
Dust Collector 2	x	X

Inputs	Decumulative Batcher	Accumulative Batcher
Admixture 1 Bottle Empty	x	x
Admixture 1 Pulse	x	x
Admixture 2 Bottle Empty	x	x
Admixture 2 Pulse	x	x
Admixture 3 Bottle Empty	x	x
Admixture 3 Pulse	x	x
Admixture 4 Bottle Empty	x	x
Admixture 4 Pulse	x	x
Manual Mode	x	x
Air Pressure OK	x	x
E-Stop	x	x
Water Meter Pulse	x	x
Conveyor Running	x	x
Weighed Water Gate Closed Limit Switch		x
Aggregate Hopper Gate Closed Limit Switch		x
Cement Hopper Gate Closed Limit Switch		x

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Concrete Batcher Questionnaire

RICE LAKE WEIGHING SYSTEMS

Customer Number:

Company: Name:

Date: Phone: Fax: Email:

1. Tell Us About Your Current System

Check boxes in either Accumulative or Decumulative to reflect your current system. Type in any bin materials you use.

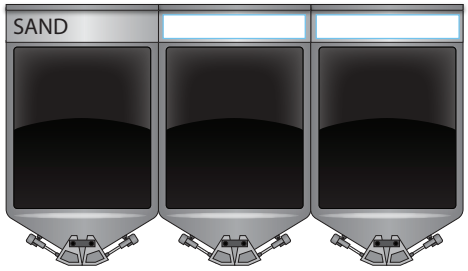
Accumulative System

Plant batch size requirements (cubic units):

Maximum

Minimum

☐ Bin 1 ☐ Bin 2 ☐ Bin 3

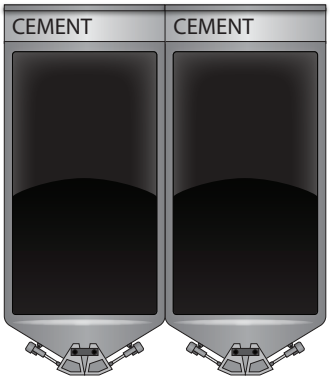


OUTPUTS* ☐ 1 ☐ 2** | OUTPUTS* ☐ 1 ☐ 2** | OUTPUTS* ☐ 1 ☐ 2**

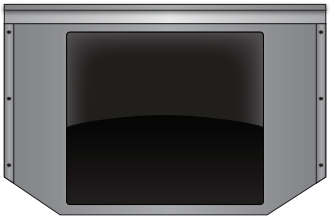


OUTPUTS* ☐ 1 ☐ 2

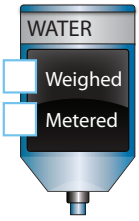
☐ Silo 1 ☐ Silo 2



OUTPUTS* ☐ 1 ☐ 2** | OUTPUTS* ☐ 1 ☐ 2**

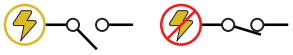


OUTPUTS* ☐ 1 ☐ 2



***ELECTRICAL REQUIREMENTS**

1 output:
Voltage on to open, voltage off to close



2 outputs:
Voltage signal to open, voltage signal to close



****Customization of standard product required**

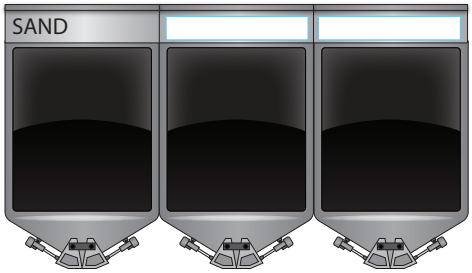
Decumulative System

Plant batch size requirements (cubic units):

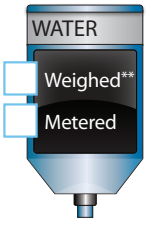
Maximum

Minimum

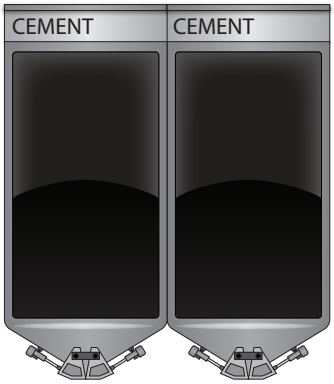
☐ Bin 1 ☐ Bin 2 ☐ Bin 3



OUTPUTS* ☐ 1 ☐ 2** | OUTPUTS* ☐ 1 ☐ 2** | OUTPUTS* ☐ 1 ☐ 2**



☐ Silo 1 ☐ Silo 2



OUTPUTS* ☐ 1 ☐ 2** | OUTPUTS* ☐ 1 ☐ 2**

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2. Weigh Ticket Information

Ticket example is shown below. Please include any custom information in the space below and provide an example ticket.

```
Ticket #: 3
Customer: Rice Lake Weighing Systems
Truck #:  1258

Mix ID:   1
Mix Name: Test Mixture
Quantity: 1.0 CY

Ingredient           Target       Actual       %TOL
-------------------------------------------------------
Sand                1200 lb      1195 lb      -0.4%
Stone2              1000 lb      1010 lb       1.0%
Stone1               800 lb       800 lb       0.0%
Cement               400 lb       400 lb       0.0%
FlyAsh               200 lb       205 lb       2.5%
Admix 1               10 oz        11 oz      10.0%
Admix 2                5 oz         5 oz       0.0%
Admix 3                6 oz         6 oz       0.0%
Admix 4                6 oz         6 oz       0.0%
Water                 50 gal       50 gal       0.0%

08:08 AM 12/13/2024
```

3. Input Requirements:

Please indicate all the applicable inputs for this system.

	Decumulative Batcher	Accumulative Batcher
Admixture 1 Bottle Empty	☐	☐
Admixture 1 Pulse Meter	☐	☐
Admixture 2 Bottle Empty	☐	☐
Admixture 2 Pulse Meter	☐	☐
Admixture 3 Bottle Empty	☐	☐
Admixture 3 Pulse Meter	☐	☐
Admixture 4 Bottle Empty	☐	☐
Admixture 4 Pulse Meter	☐	☐
Manual Mode	☐	☐

	Decumulative Batcher	Accumulative Batcher
Air Pressure OK	☐	☐
E-Stop	☐	☐
Water Meter Pulse	☐	☐
Conveyor Running	☐	☐
Weighed Water Gate Closed Limit Switch		☐
Aggregate Hopper Gate Closed Limit Switch		☐
Cement Hopper Gate Closed Limit Switch		☐

Are there any additional 120V or 240V input requirements not mentioned in the previous list such as sensors, switches, limit switches, photo eyes, etc?

If so, please specify in the space provided.

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4. Output Requirements:

Please indicate all the applicable outputs for this system.

	Decumulative Batcher	Accumulative Batcher
Conveyor Start/Run	☐	☐
Alarm/Horn	☐	☐
Bin 1 Discharge	☐	☐
Bin 1 Vibration	☐	☐
Bin 2 Discharge	☐	☐
Bin 2 Vibration	☐	☐
Bin 3 Discharge	☐	☐
Bin 3 Vibration	☐	☐
Cement Hopper Gate (Close)		☐
Cement Hopper Gate (Open)		☐
Cement Silo 1 Feed	☐	☐
Cement Silo 2 Feed	☐	☐
Cement Weigh Hopper Air		☐
Cement Weigh Hopper Vibration		☐
Cement Silo 1 Air	☐	☐
Cement Silo 2 Air	☐	☐

	Decumulative Batcher	Accumulative Batcher
Water Fill/Feed	☐	☐
Weighed Water Discharge Gate		☐
Admixture 1 Discharge	☐	☐
Admixture 1 Fill/Feed	☐	☐
Admixture 2 Discharge	☐	☐
Admixture 2 Fill/Feed	☐	☐
Admixture 3 Discharge	☐	☐
Admixture 3 Fill/Feed	☐	☐
Admixture 4 Discharge	☐	☐
Admixture 4 Fill/Feed	☐	☐
Aggregate Hopper Gate (Close)		☐
Aggregate Hopper Gate (Open)		☐
Aggregate Hopper Vibration		☐
Aggregate Weigh Hopper Air		☐
Dust Collector 1	☐	☐
Dust Collector 2	☐	☐

Are there any additional 120V or 240V output requirements that were not covered in the previous list, including but not limited to air solenoids, vibrators, aerators, motor starters, horns or lights?

If so, please specify in the space provided.

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5. Weighing and Moving Aggregates and Cements:

5a. Apart from a feed gate and gravity, does the aggregate require any equipment to move it from a surge bin into the weigh hopper?

5b. List equipment used to move aggregate into the truck or mixer. For example: "Gate opens releasing product. Product travels via conveyor to truck."

5c. List equipment used to move cement from silo into weigh hopper:

5d. List equipment used to move cement from weigh hopper into the truck/mixer:

6. Admixtures and Water

6a. Does the process use more than the standard front- and tail-water additions?

☐ Yes ☐ No

If yes, describe:

6b. How many admixtures does this system use? NOTE: Four is the default maximum.

How Many

6c. Describe any mix design methods used (bottle or direct).

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7. Drawing of Plant

A drawing helps show system integration and design. Please include the location of all moving parts (gates, conveyors, augers), sensors, load cells, bins, silos, water and admixture lines.

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Counting Scales

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Counting Scales **317**

Counterpart® **318**
Configurable Counting Indicator

DC-788 Series **320**
Counting Scale

S-YC Series **321**
Remote Scale Base Platforms

DIGI® DC-782 Series **322**
Portable Counting Scale

DIGI® DMC-782 Series **322**
Portable Coin Counting Scale

A&D® Weighing HC-i Series **323**
Counting Scale

A&D® Weighing FC-i/Si Series **323**
Counting Scale

OHAUS® Ranger™ Count 3000 ..... **324**
Industrial Counting Scale

COUNTING SCALES

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Counterpart®

Configurable Counting Indicator



Approvals

Measurement Canada Approved

Standard Features

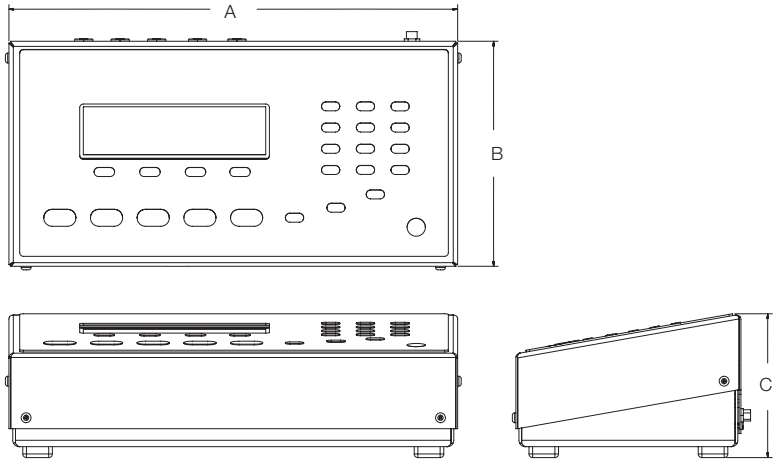
- AC operated (battery operation is optional)
- LCD graphic transmissive display for indoor viewing
- Single- or dual-channel models with serial scale input
- Mix and match platforms with console
- Four setpoint outputs for counting
- Two RS-232 ports for connecting peripherals
- Ethernet TCP/IP
- Scanner input (RS-232)
- PC software utility (Revolution®) for setup
- 150 item memory

Options

- Wireless LAN
- Rechargeable battery
- USB connection for keyboard
- WeighVault™ software for ID entry, data registers and reports

Dimensions

Rice Lake Counterpart			
A	12.30 in (312 mm)	C	3.94 in (100 mm)
B	6.17 in (157 mm)		



Specifications

Power Source:
Input: 100 to 240 VAC, 47/63 Hz, 5 watts
U.S. power cord
Output: 9 to 12 V, 1.5 A max

Excitation Voltage:
5 VDC

Analog Signal Input Range:
0 to 4.5 mV/V

Analog Specifications:
Grad minimum: .3 µV/grad
Input sensitivity: 1.5 µV/grad recommended
Zero adjustment range: 0 to 100% or per region settings
A/D conversion rate: 7.5, 15, 30 samples per second
Load cells per scale: 8 × 350 ohm; 16 × 700 ohm
Scale channels: 1 or 2
Linearity: ± 0.017 full scale

Circuit Protection:
RFI, EMI, ESD protection

Digital I/O:
Four

Display:
Viewing area: 240 × 64 pixels, transmissive VGA liquid crystal display (LCD) with adjustable contrast

Keys/Buttons:
24 buttons, full keypad (alpha numeric)

Resolution:
Internal: 1,000,000 counts
Display: up to 100,000

Communications Ports:
Two RS-232 ports support up to 115,200 bps
20 mA
Ethernet port
Setpoint output

Annunciators:
PCS, motion, low battery, insuff, recomp, scale number, gross, net, zero

Units of Measure:
lb, kg, g, oz

Prints:
Standard EPL label format; format is changeable to work with virtually any printer

Battery (optional):
Type: Lithium-ion
Charge time: Six to eight hours
Charge cycles: 400 to 1,200
Estimated runtime: 24 to 32 hours with one 350 ohm load cell base

Temperature:
Operating: 32 °F to 104 °F (0 °C to 40 °C)

Humidity:
85%

Dimensions:
(L × W × H)
Indicator only
12.25 × 6.25 × 4.00 in
(311 × 159 × 102 mm)

Warranty:
Two-year limited

Approvals:
NTEP 12-110
Measurement Canada AM-5918C
CE Marked
UL Listed

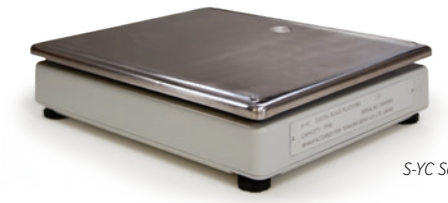
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Part Number/Price

Part #	Model #	Capacity	Platter Dimensions	Est. Weight	Price
118788	CP single-channel indicator	Console only	—	10 lb (4.5 kg)	$1,050.00
120770	CP dual-channel indicator	Console only	—	10 lb (4.5 kg)	$1,080.00
132429	CP single-channel, EU power cord	Console only	—	10 lb (4.5 kg)	$1,050.00
132431	CP dual-channel, EU power cord	Console only	—	10 lb (4.5 kg)	$1,080.00
Single Channel with S-YC base system and bracket					
155089	CP-1	1 × 0.0001 lb (500 × 0.05 g)	7.9 × 5.6 in (200 × 142 mm)	35 lb (15.9 kg)	$1,450.00
155090	CP-2	2 × 0.0002 lb (1 × 0.0001 kg)	9.6 × 6.9 in (244 × 175 mm)	35 lb (15.9 kg)	$1,450.00
155092	CP-5	5 × 0.0005 lb (2.5 × 0.0002 kg)	13.4 × 11 in (341 × 284 mm)	35 lb (15.9 kg)	$1,395.00
155094	CP-10	10 × 0.001 lb (5 × 0.0005 kg)	13.4 × 11 in (341 × 284 mm)	35 lb (15.9 kg)	$1,395.00
155097	CP-25	25 × 0.002 lb (10 × 0.001 kg)	13.4 × 11 in (341 × 284 mm)	35 lb (15.9 kg)	$1,395.00
155101	CP-50	50 × 0.005 lb (25 × 0.002 kg)	13.4 × 11 in (341 × 284 mm)	35 lb (15.9 kg)	$1,395.00
Dual Channel with S-YC base system and bracket (second channel available for use with other bases)					
155115	CP-1	1 × 0.0001 lb (500 × 0.05 g)	7.9 × 5.6 in (200 × 142 mm)	35 lb (15.9 kg)	$1,500.00
155116	CP-2	2 × 0.0002 lb (1 × 0.0001 kg)	9.6 × 6.9 in (244 × 175 mm)	35 lb (15.9 kg)	$1,500.00
155117	CP-5	5 × 0.0005 lb (2.5 × 0.0002 kg)	13.4 × 11 in (341 × 284 mm)	35 lb (15.9 kg)	$1,470.00
155118	CP-10	10 × 0.001 lb (5 × 0.0005 kg)	13.4 × 11 in (341 × 284 mm)	35 lb (15.9 kg)	$1,470.00
155119	CP-25	25 × 0.002 lb (10 × 0.001 kg)	13.4 × 11 in (341 × 284 mm)	35 lb (15.9 kg)	$1,470.00
155120	CP-50	50 × 0.005 lb (25 × 0.002 kg)	13.4 × 11 in (341 × 284 mm)	35 lb (15.9 kg)	$1,470.00
Dual Channel with BenchMark® base system and bracket (second channel available for use with other bases)					
125113	CP-50BM	50 × 0.01 lb (20 × 0.005 kg)	12 × 18 in (305 × 457 mm)	45 lb (20.4 kg)	$1,525.00
125116	CP-100BM	100 × 0.02 lb (50 × 0.01 kg)	12 × 18 in (305 × 457 mm)	45 lb (20.4 kg)	$1,525.00

Options/Accessories

Part #	Description	Price
124692	Rechargeable lithium-ion battery option	$310.00
32375	Connector, 14-pin Amphenol load cell (can be soldered to home run cable)	$21.00
125062	Ethernet quick access coverplate for Counterpart	$21.00
130537	USB connection for USB keyboard only	$160.00
179211	QWERTY keyboard, USB interface (requires 130537 USB interface option)	$47.50
125079	Quick access 9-pin cover plate	$10.50
120767	Quick access 14-pin Amphenol cover plate	$15.75
125495	Wireless LAN card Wi-Fi 802.11 a/b, optional kit	$600.00
125546	WeighVault™ software for Counterpart	$265.00
118677	Operators manual (Part #129606 Spanish operator's manual)	$26.50
121459	Front-mount bracket for Rice Lake BenchMark scales, S-XL bases	$53.00
154700	Front-mount bracket for S-YC scales	$53.00
121474	Firmware download cable	$37.00
121501	Stand, angled free-standing for tabletop	$84.00
128063	Power supply, 12 V (power cord sold separately)	$58.00
15438	Power cord	$35.00
Printers/Cables		
167515	GoDEX DT2x printer, 2 in direct thermal, 203 dpi, real time clock 110/240 VAC	$365.00
65617	Direct thermal, (W × L × D) 2.25 × 4.5 × 5 in with perf., 600/LPR	$17.50/roll
41276	Cable DB9M to blunt end RS-232 cable for DT2	$77.00
78860	Ethernet cross cable for direct connection to WeighVault™	$40.00
Scanner		
225024	Kit, QuickScan QD2131 RS-232 scanner, cable stand and DB9 quick connect cable (supplies power to scanner, can reduce battery run time)	$430.00



S-YC Scale base



Shown with BenchMark® Scale Base and Bracket

COUNTING SCALES

DC-788 Series

Counting Scale



Approvals

Standard Features

- Auto-recomputing function
- Negative sampling and counting (count out of a full container)
- Bright green LED
- Simultaneous weight display, unit weight, tare and quantity
- Net/gross weight display
- Weight display lb/kg conversion
- Full-duplex RS-232 output to PC or printer
- AC or rechargeable battery operation (battery optional)
- Choice of unit weight per thousand or average piece weight
- Remote scale capability
- 100 product look up registers
- NTEP for non-counting applications
- Remote scale interface

Part Number/Price

Part #	Capacity	NTEP Weighing Resolution	Est. Weight	Price
88928 *	2 lb (1 kg)	0.0002 lb (0.0001 kg)*	15 lb (7 kg)	$875.00
88929	10 lb (5 kg)	0.002 lb (0.001 kg)	15 lb (7 kg)	$875.00
88930	25 lb (10 kg)	0.005 lb (0.002 kg)	15 lb (7 kg)	$875.00
88931	50 lb (25 kg)	0.01 lb (0.005 kg)	15 lb (7 kg)	$875.00
88932	100 lb (50 kg)	0.02 lb (0.01 kg)	15 lb (7 kg)	$1,095.00

**Non-NTEP*

Options/Accessories

Part #	Description	Price
88933	Rechargeable lead-acid battery type	$80.00
73386	Anti-static sample tray	$26.00
32375	14-pin load cell connector, Amphenol (remote base, non-DIGI)	$21.00
35319	14-pin load cell connector with 20 ft cable	$72.00
91685	Additional operating and service manual	$26.00
70056	9-pin printer cable to DT4, G500	$40.00
72440	9-pin printer cable to Epson TM-U220/TM-U295 SP512	$67.00
66535	9-pin cable to PC, null modem cable, to be used with Zebra printers (requires PN 212815)	$48.00
91214	AC adapter 110 to 230 VAC, U.S. plug	$46.00
S-YC Remote Scale Bases		
154835	Base,S-YC 500 g (1 lb) 7.9 x 5.6 in (201 x 143 mm) platter, 3 m (118 in) cable	$775.00
154836	Base,S-YC 1 kg (2.5 lb) 9.6 x 6.9 in (244 x 177 mm) platter, 3 m (118 in) cable	$775.00
154838	Base,S-YC 2.5 kg (5 lb) 13.4 x 11.1 in (341 x 284 mm) platter, 3 m (118 in) cable	$700.00
154839	Base,S-YC 5 kg (10 lb) 13.4 x 11.1 in (341 x 284 mm) platter, 3 m (118 in) cable	$700.00
154840	Base,S-YC 10 kg (25 lb) 13.4 x 11.1 in (341 x 284 mm) platter, 3 m (118 in) cable	$700.00
154841	Base,S-YC 25 kg (50 lb) 13.4 x 11.1 in (341 x 284 mm) platter, 3 m (118 in) cable	$700.00
Printers		
212409	Zebra ZD421D, direct thermal printer.	$770.00
212406	Zebra ZD421T, thermal transfer printer	$820.00
132425	GoDEX G500 printer, 4 in direct/thermal transfer, 110 to 240 VAC	$615.00
65617	Direct thermal, (W × L × D) 2.25 × 4.5 × 5 in with perf., 600/LPR	$17.50/roll

Specifications

Power:
AC: 115 VAC, 60 Hz
Optional battery: 6 V, 5.0 Ah

Battery Operation:
24 hours of continuous usage

Internal Resolution:
1/1,000,000

Weight Display Resolution:
1/5,000 NTEP, other selections capacity dependent

Display:
LED
Weight: Five digits
Unit weight: Five digits
Quantity: Seven digits
Tare: Five digits

Charge Time:
Eight to ten hours

Zero Adjust Range:
± 127% full scale

Input Sensitivity:
0.4 to 4 mV/V

Load Cell Excitation:
5 VDC

Number of Scale Channels:
One local
One remote

Memory Items:
100 items

Load Cell Input Connector:
Amphenol 14-Pin

Computer Interface:
RS-232 DB-9M connection

Temperature:
Operating:
23 °F to 104 °F (-5 °C to 40 °C)

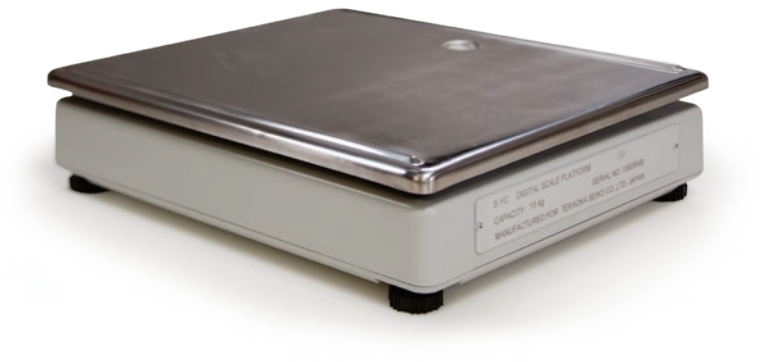
Dimensions:
(L × W × H)
14.00 × 13.75 × 4.50 in
(354 × 349 × 115 mm)

Platter Dimensions:
2 lb: 7 × 10 in (178 × 254 mm)
10 to 100 lb: 10 × 13 in (254 × 330 mm)

Warranty:
Three-year limited

Approvals:
NTEP 07-015
(10 to 100 lb) Class III for weigh mode only
10 to 100 lb scales only

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Part Number/Price

Part #	Capacity	Est. Weight	Price
154835	500 g (1 lb)	8 lb (3.5 kg)	$775.00
154836	1 kg (2 lb)	8 lb (3.5 kg)	$775.00
154838	2.5 kg (5 lb)	11 lb (5 kg)	$700.00
154839	5 kg (10 lb)	11 lb (5 kg)	$700.00
154840	10 kg (20 lb)	11 lb (5 kg)	$700.00
154841	25 kg (50 lb)	11 lb (5 kg)	$700.00

Standard Features

- Stainless steel platter
- ABS injection-molded plastic base
- Single-point strain gauge load cell
- Adjustable legs
- Leveling bubble
- 14-pin connector on three-meter cable

Specifications

Output Impedance:
350 ± 5 ohm

Insulation Resistance:
> 500 megohm

Rated Output:
1.0016 mV/V

Load Cell Type:
K-Type cell

Load Cell Cable Length:
118 in (3 m)

Load Cell Color Code:
Green +Output
Yellow –Output
Black Shield
White –Input
Red +Input

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Dimensions:
13.4 × 11.1 × 3.5 in
(341 × 284 × 90 mm)

Platter Dimensions:
500 g: 7.9 × 5.6 in (201 × 143 mm)
1 kg: 9.6 × 6.9 in (244 × 177 mm)
2.5 to 25 kg: 13.4 × 11.1 in (341 × 284 mm)

Warranty:
Three-year limited

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DIGI® DC-782 Series

Portable Counting Scale



Standard Features

- LCD with yellow backlight
- 10 preset keys for product ID
- 25 item memory
- Buzzer - low, ok, high

Part Number/Price

Part #	Capacity	Est. Weight	Price
108248	6 × 0.001 lb (3 × 0.0005 kg)	11 lb (5 kg)	$557.00
108249	15 × 0.002 lb (6 × 0.001 kg)	11 lb (5 kg)	$557.00
108250	30 × 0.005 lb (15 × 0.002 kg)	11 lb (5 kg)	$557.00
108251	60 × 0.01 lb (30 × 0.005 kg)	11 lb (5 kg)	$557.00

Options/Accessories

Part #	Description	Price
108516	Rechargeable battery	$50.00
108518	AC adapter 110 - 230 VAC	$50.00
109429	Manual	$26.00
73296	Carrying case	$205.00

Specifications

Power:
AC: 120 VAC power supply (U.S. power cord)
Optional battery: Rechargeable

Battery Operation:
Charge time: 12 to 14 hours
Estimated runtime: 300 hours (no backlight)

Internal Resolution:
1/500,000

Weight Display Resolution:
1/7,500 or 1/6,000

Display:
Liquid crystal display (LCD) with backlight
Weight: Five digits
Unit weight: Five digits
Quantity: Six digits

Number of Scale Channels:
One local

Memory Items:
25

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Dimensions:
(L × W × H)
13.78 × 13.22 × 4.88 in
(350 × 336 × 124 mm)

Platter Size:
12.00 × 8.90 in
(305 × 226 mm)

Warranty:
Two-year limited

DIGI® DMC-782 Series

Portable Coin Counting Scale



Standard Features

- Liquid crystal display (LCD) with yellow backlight
- 18 preset keys for product ID
- Programmable denomination unit weight and tare weight
- Accumulation
- Toggle display: count and money value
- Total amount calculation utilizing reverse counting

Options

- Rechargeable battery
- Carrying case

Part Number/Price

Part #	Capacity	Est. Weight	Price
111317	6 × 0.001 lb (3 × 0.0005 kg)	11 lb (5 kg)	$610.00
111318	15 × 0.002 lb (6 × 0.001 kg)	11 lb (5 kg)	$610.00
111319	60 × 0.01 lb (30 × 0.005 kg)	11 lb (5 kg)	$610.00

Options/Accessories

Part #	Description	Price
15438	Power cord	$35.00
111781	Manual	$26.00
108516	Rechargeable battery	$50.00
73296	Carrying case, hard shell with locking latches	$205.00

Specifications

Power:
AC: 120 AC power supply
Optional battery: rechargeable

Battery Operation:
Charge time: 12 to 14 hours
Battery life: 300 hours (no backlight)

Internal Resolution:
1/500,000

Weight Display Resolution:
1/7,500 or 1/6,000

Display:
LCD with backlight
Weight: Five digits
Denomination: Five digits
Quantity/Amount: Six digits

Number of Scale Channels:
One local

Memory Items:
18

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Dimensions:
(L × W × H)
13.7 × 13.2 × 4.8 in
(350 × 336 × 124 mm)

Platter Size:
(L × W)
8.90 × 12.00 in
(255 × 300 mm)

Warranty:
Two-year limited

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A&D® Weighing HC-i Series

Counting Scale



Standard Features

- Sealed removable display unit
- Automatic Counting Accuracy Improvement (ACAI)
- Audible Weighing Assist beeping function (AWA)
- Display function - Hi/Ok/Lo
- Accumulation function
- Full-digital calibration function
- Auto power-off function

Options

- Rechargeable battery
- RS-232C

Specifications

Power Source:
AC adapter or optional SLA battery

Internal Resolution:
HC-3 Ki, 6 Ki, 30 Ki: 1/600,000
HC-15 Ki: 1/750,000

Display:
Seven-segment LCD
Character height: pcs 18.6 mm
Unit weight: 11.4 mm

Operating Time:
Approximately 80 hours without interface

Number of Scale Channels:
One local

Memory Items:
99 weight registers

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Dimensions:
(L × W × H)
12.40 × 13.00 × 5.00 in
(315 × 331 × 126 mm)

Platter Size:
11.8 × 8.3 in (300 × 211 mm)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Est. Weight	Price
112837	HC-3 Ki	6 × 0.001 lb (3 × 0.0005 kg)	11 lb (5 kg)	$924.00
112838	HC-6 Ki	15 × 0.002 lb (6 × 0.001 kg)	11 lb (5 kg)	$924.00
112839	HC15 Ki	30 × 0.005 lb (15 × 0.002 kg)	11 lb (5 kg)	$924.00
112840	HC-30 Ki	60 × 0.01 lb (30 × 0.005 kg)	11 lb (5 kg)	$924.00

Options/Accessories

Part #	Model #	Description	Price
112841	HC-03 i	RS-232C for HC-i	$104.50
112842	HC-06 i	Rechargeable battery pack	$58.30
97766	TB:662	AC adapter, 120 V, standard with unit	$52.25

A&D® Weighing FC-i/Si Series

Counting Scale



Standard Features

- Seven segment vacuum fluorescent display (VFD)
- LED keypad prompting for intuitive operator use
- Automatic Counting Accuracy Improvement (ACAI)
- Display function - Hi/Ok/Lo
- Rugged aluminum die-cast frame with splash-proof display and keyboard

Options

- Remote scale

Specifications

Power Source (included):
110 VAC 50/60 Hz AC adapter
230 VAC 50/60 Hz AC adapter

Internal Resolution:
Si Series: 1/5,000,000
FC-i Series: 1/1,000,000

Number of Scale Channels:
One local
One remote (optional)

Memory Items:
500 ID - six-digit ID, unit weight, tare weight, comparator limits, accumulator and 12-digit ID name

Weight Sensor:
Si: Super hybrid sensor (SHS)
FC-i: Strain gauge load cell

Temperature:
Operating:
Si: 41 °F to 104 °F (5 °C to 40 °C)
FC-i: 14 °F to 104 °F (-10 °C to 40 °C)

Dimensions:
(L × W × H)
13.0 × 18.2 × 4.6 in
(330 × 462 × 117 mm)

Est. Weight:
108351 to 108357 15 lb
108358 17 lb

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Min Sample Weight	Pan Size	Price
108351	FC-500Si	1 × 0.00005 lb (500 g × .02 g)	0.0001 g	5 × 5 in (127 × 127 mm)	$2,288.00
108352	FC-5000Si	10 × 0.0005 lb (5 kg × .2 g)	0.001 g	6.5 × 6.5 in (165 × 165 mm)	$2,288.00
108353	FC-1000i	2 × 0.0002 lb (1 kg × .1 g)	0.001 g	8 × 6 in (203 × 152 mm)	$1,683.00
108354	FC-2000i	5 × 0.0005 lb (2 kg × .2 g)	0.002 g	11.8 × 11 in (300 × 279 mm)	$1,683.00
108355	FC-5000i	10 × 0.001 lb (5 kg × .5 g)	0.005 g	11.8 × 11 in (300 × 279 mm)	$1,683.00
108356	FC-10Ki	20 × 0.002 lb (10 kg × 1 g)	0.01 g	11.8 × 11 in (300 × 279 mm)	$1,683.00
108357	FC-20Ki	50 × 0.005 lb (20 kg × 2 g)	0.02 g	11.8 × 11 in (300 × 279 mm)	$1,683.00
108358	FC-50Ki	100 × 0.01 lb (50 kg × 5 g)	0.05 g	11.8 × 11 in (300 × 279 mm)	$1,683.00

Options/Accessories

Part #	Model #	Description	Price
108360	FC-05i	Remote scale connection	$192.50
97613	TB:636	AC adapter 120 V - standard with unit	$52.25
97631	TB:164	AC adapter 240 V	$75.90

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OHAUS® Ranger™ Count 3000

Industrial Counting Scale



Standard Features

- Weigh in kilograms, pounds, grams or ounces
- 30-item data storage
- Three backlit LCD display windows
- RS-232 output
- Quick stabilization

Options

- Ethernet
- Remote scale

Approvals

Part Number/Price

Part #	Model #	Capacity	Est. Weight	Price
157273	RC31P1502	3 × 0.0001 lb (1.5 × 0.00005 kg) (48 × 0.002 oz) (1,500 × 0.05 g)	12 lb (5.45 kg)	$1,075.00
157275	RC31P3	6 × 0.0002 lb (3 × 0.0001 kg) (96 × 0.05 oz) (3,000 × 0.1 g)	12 lb (5.45 kg)	$1,075.00
157277	RC31P6	15 × 0.0005 lb (6 × 0.0002 kg) (240 × 0.01 oz) (6,000 × 0.2 g)	12 lb (5.45 kg)	$1,075.00
157278	RC31P15	30 × 0.001 lb (15 × 0.0005 kg) (480 × 0.02 oz) (15,000 × 0.5 g)	12 lb (5.45 kg)	$1,075.00
157279	RC31P30	60 × 0.002 lb (30 × 0.001 kg) (960 × 0.05 oz) (30,000 × 1 g)	12 lb (5.45 kg)	$1,075.00

Options/Accessories

Part #	Description	Price
157280	Remote second scale option kit	$168.00
154638	Ethernet kit	$168.00

Specifications

Power:
100 to 240 VAC, 50 to 60 Hz internal universal power supply

Resolution:
Internal: 1/500,000

Display:
Seven-segment 1/30,000, six-digit

Number of Scale Channels:
One local
One remote (optional)

Memory Items:
(30) 12-digit part number, average piece weights, check counting or checkweighing parameters, tare weights, accumulated weights or counts

Battery:
Lead acid, 210 hours, 12 hours recharge

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Dimensions:
(L × W × H)
12.2 × 12.9 × 4.6 in
(311 × 327 × 117 mm)

Platter Size:
11.8 × 8.9 in (300 × 225 mm)

Approvals:
NTEP 13-022
UL Std. No. 61010-1 (2nd edition)

Warranty:
One-year limited

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Dimensioning

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iDimension® SS **338**
Software Suite Integration Software

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iDimension® Plus

Parcel Static Dimensioning System



Standard Features

- iDim Plus package 1 includes: base plate, telescoping pole assembly, touchscreen display, calibration object, power cord, operating manual and assembly toolkit
- iDim Plus package 2 includes: package 1 components and a 150-lb Bench Pro™ shipping scale
- iDim Plus package 3 includes: dimensioning head (without pole), 10-ft Ethernet cable, USB display, calibration object, power cord and operating manual
- No special package placement requirements
- Capable to dimension opaque packaging
- Measurement capabilities beyond Legal for Trade limits
- High resolution color image, 1920 × 1080 resolution color camera

Options

- iDimension SS (Software Suite)
- iDimension App
- Wired or wireless barcode scanner
- Rice Lake BenchPro™ shipping/postal scales
- Rice Lake 680 and 1280 indicators available for automation applications

Specifications

Power Requirements:
110 to 240 VAC

Communication Ports:
(2) USB A
(1) 10/100/1000 Base-T Ethernet
Wi-Fi 802.11 ac

Display:
10 in (254 mm) touchscreen monitor

Accuracy:
Certified Legal for Trade at 0.2 in (5 mm)

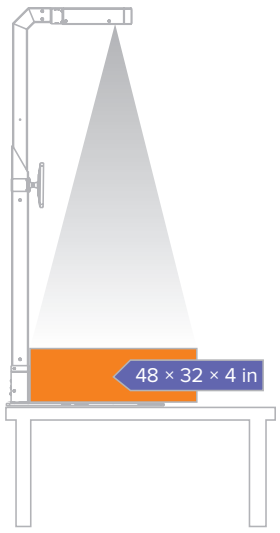
Software Integration:
Simple API network integration through HTTP requests, status checking and XML parsing iDimension QubeVu Server API provides secure data uploads (push) to local and remote data centers, including cloud-based locations using REST API with OAuth 2.0

Temperature:
Certified: 32 °F to 95 °F (0 °C to 35 °C)

Humidity:
Non-condensing

Warranty:
Two-year limited

Approvals:
NTEP
CE
FCC



Approvals

Platform Distance	48 in (1.2 m)		60 in (1.5 m)		80 in (2 m)**	
Min/Max *	Min	Max	Min	Max	Min	Max
Length	2.4 in (61 mm)	40 in (1,000 mm)	2.4 inch (61 mm)	48 in (1,200 mm)	3 in (76 mm)	48 in (1,219 mm)
Width	2.4 in (61 mm)	24 in (609 mm)	2.4 inch (61 mm)	32 in (812 mm)	3 in (76 mm)	32 in (812 mm)
Height	2.4 in (61 mm)	24 in (609 mm)	2.4 inch (61 mm)	28 in (711 mm)	3 in (76 mm)	32 in (812 mm)
Division	0.2 in (5 mm)		0.2 in (5 mm)		0.5 in (10 mm)	

**With RGB assist enabled smaller measurements are possible*
***2 m not Legal for Trade*

Largest Box Measurement Capability for Max Length vs. Max Height

	Pole Assembly Height	Maximum LFT Box Size
Largest Box with Max Height	48 in (1.2m)	24 × 14 × 24 in (609 × 355 × 609 mm)
Largest Box with Max Length	48 in (1.2m)	39 × 24 × 8 in (1,000 × 609 × 203 mm)
Largest Box with Max Height	60 in (1.5m)	32 × 20 × 28 in (812 × 500 × 711 mm)
Largest Box with Max Length	60 in (1.5m)	48 × 32 × 4 in (1,219 × 812 × 101 mm)

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Part Numbers/Price

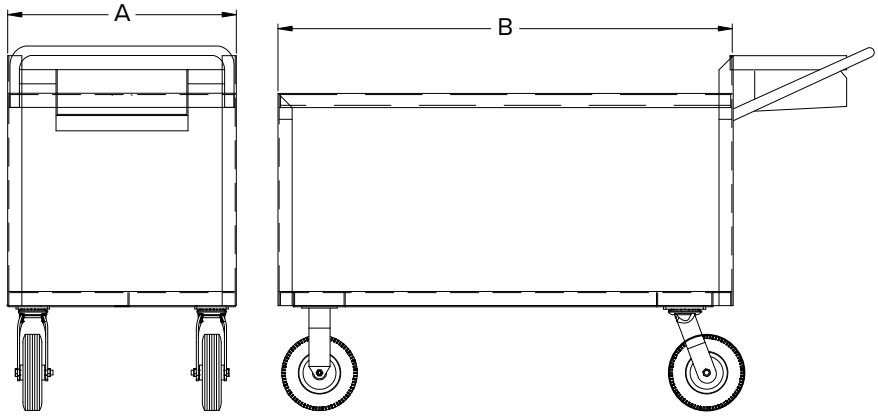
Part #	Description	Price
226071	Package 1 iDimension Plus for stand alone applications	$5,995.00
226086	Package 2 iDimension Plus with 150 lb BenchPro shipping scale	$7,060.00
226070	Package 3 iDimension Plus without pole	$4,495.00
228864	Retrofit kit to mount iDimension Plus 2.0 head to an original iDimension Plus pole assembly. Does not include 10 in display	$4,895.00

Options/Accessories

Part #	Description	Price
Kit Mounting Options		
174660	Floor stand for 2 meter sensor height over a work surface or conveyor. Includes pn 206583 hardware and cable, and pn 184262 display RAM mounting kit	$1,720.00
198708	Mounting hardware and cable assembly kit with 25 ft North American power cord	$175.00
206583	Mounting hardware and cable assembly kit without power cord	$175.00
184262	iDimension USB operator display RAM® mount kit	$145.00
Accessories		
225778	Portable cart, 24 × 48 in with flush shelves, writing shelf and storage pocket. 2 rigid, 2 swivel 9 in pneumatic wheels, 1,200 lb capacity	$2,305.00
225776	Portable power supply for mobile cart. 1500 watts with AC inverter and 3 120VAC outlets, two USB-A, two USB-C ports. Digital display with battery life, current draw and hours remaining. Recharge in 5 hours	$1,795.00
180007	Powered Industrial USB 4-Port Hub with USB cable	$280.00
222125	Power cord, detachable, German/French, 2.5 m, CEE 7/7, Type E plug	$25.00
95589	Power cord, detachable, UK, 2.5 m, BS1363 Type G plug	$35.00
162630	Power cord, detachable, AU / NZ, 2.5 m, 1332 Type 1 plug	$35.00
178501	RS-232/USB cable, for use with compatible indicators	$60.00
180771	Shipping software integration kit includes four-port industrial USB hub, power adapter and USB cables to connect computer and dimensioner	$430.00
Barcode Scanner		
225020	QuickScan QD2590 USB barcode scanner	$345.00
206225	Honeywell wireless long-range 1991XLR-3USB-5-N barcode scanner	$1,800.00
206228	Power supply for PN 206225	$75.00
Integration Solutions		
203010	iDimension App (Available for free download at www.ricelake.com)	N/C
225287	USB-A to USB-A cable for connecting dimensioner to computer	$75.00
175812	iDimension SS (Software Suite) web server software	$2,250.00
Factory Service and Support		
202027	Up to two hours iDimension Plus remote support, includes initial configuration and scale setup, iDimension App installation and operator training.	$250.00/ Unit
Extended Warranty		
202030	One-year optional extended warranty	$750.00

Dimensions

Portable Cart			
A	24 in (610 mm)	B	48 in (1,219 mm)





Portable cart



Shown with ELS (Elevated Load Cell Stand) legs found on page 581, conveyor not included

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iDimension® Plus

Parcel Static Dimensioning System

Part Numbers/Price

Part #	Description	Price
BenchPro™ Compatible Scales		
Postal Scale 12 × 14 in (305 × 356 mm) Weigh Platter		
194625 *	BenchPro BP-P 1214-35P - 70 lb × 0.2 oz (35 kg × 0.01 kg), multi-range and multi-interval postal scale, painted mild steel weight platter	$875.00
Shipping Scale 12 × 14 in (305 × 356 mm) Weigh Platter		
184585	BenchPro BP-S 1214-75S, 150 × 0.05 lb (75 × 0.02 kg), painted mild steel weigh platter	$875.00
Shipping Scale 18 × 18 in (457 × 457 mm) Weigh Platter		
202191	BenchPro BP-S 1818-75S, 150 × 0.05 lb (75 × 0.02 kg), painted mild steel weigh platter	$1,740.00
201730	BenchPro BP-S 1818-75S, 150 × 0.05 lb (75 × 0.02 kg), ball top weigh platter	$2,140.00
202190	BenchPro BP-S 1818-75S, 150 × 0.05 lb (75 × 0.02 kg), roller conveyor weigh platter	$1,925.00
Shipping Scale 20 × 20 in (508 × 508 mm) Weigh Platter		
182396	BenchPro BP-S 2020-150S, 300 × 0.1 lb (150 × 0.05 kg), painted mild steelweigh platter	$1,950.00
182397	BenchPro BP-S 2020-150S, 300 × 0.1 lb (150 × 0.05 kg), ball top weigh platter	$2,375.00
182398	BenchPro BP-S 2020-150S, 300 × 0.1 lb (150 × 0.05 kg), roller conveyor weigh platter	$2,065.00
Shipping Scale 24 × 24 in (610 × 610 mm) Weigh Platter		
182400	BenchPro BP-S 2424-150S, 300 × 0.1 lb (150 × 0.05 kg), painted mild steel weigh platter	$2,150.00
182401	BenchPro BP-S 2424-150S, 300 × 0.1 lb (150 × 0.05 kg), ball top weigh platter	$2,615.00
182402	BenchPro BP-S 2424-150S, 300 × 0.1 lb (150 × 0.05 kg), roller conveyor weigh platter	$2,265.00

**USB HID interface not available when in the postal scale lb/oz mode*



BenchPro 1214-S with mild steel weigh platter



BenchPro 1818-S with ball top weigh platter

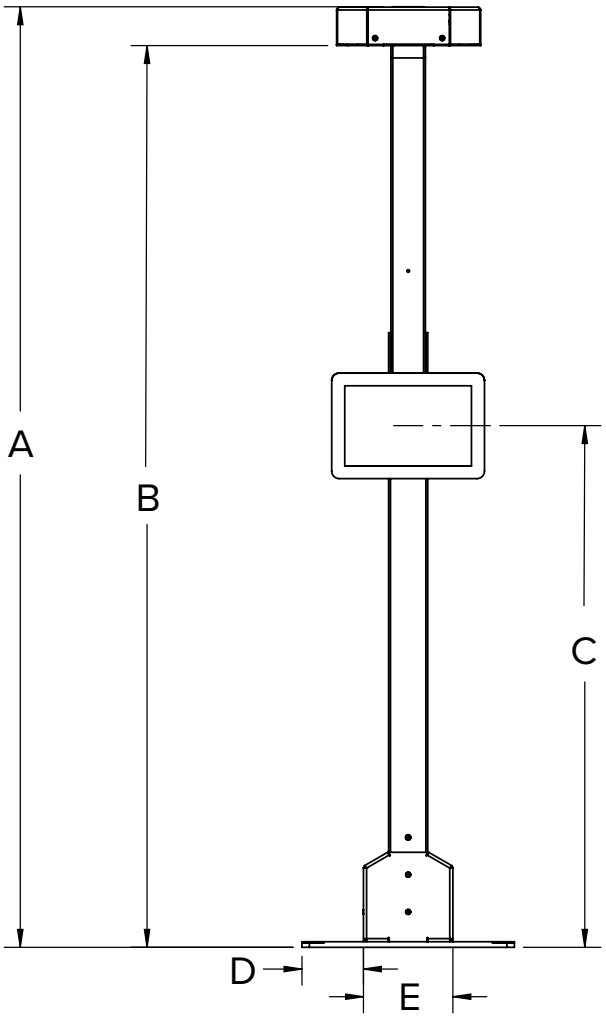


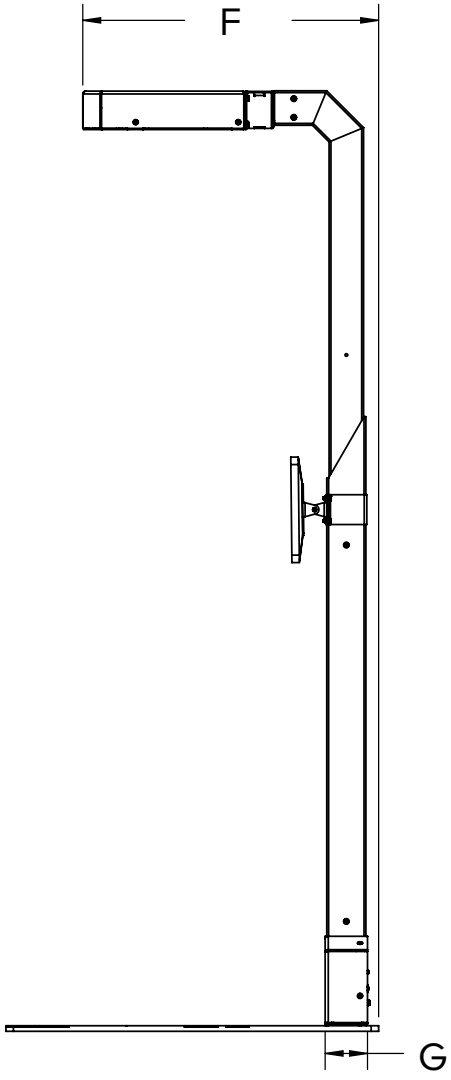
BenchPro 2424-S with roller conveyor weight platter

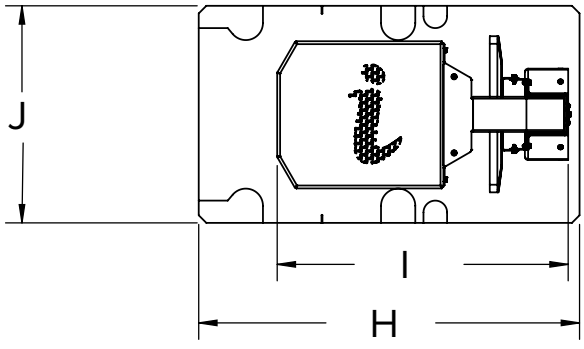
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Dimensions

iDimension Plus			
A	63.10 in (1,603 mm)	F	19.85 in (504 mm)
B	60.50 in (1,537 mm)	G	2.84 in (72 mm)
C	35.00 in (889 mm)	H	25.00 in (635 mm)
D	4.13 in (105 mm)	I	19.10 in (485 mm)
E	6.00 in (152 mm)	J	14.25 in (362 mm)





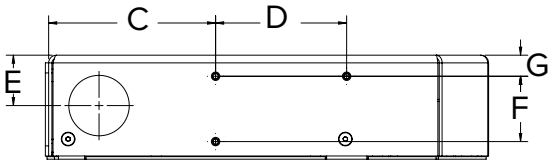


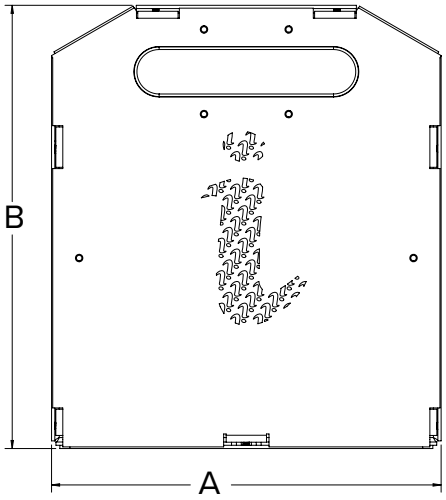
iDimension® Plus

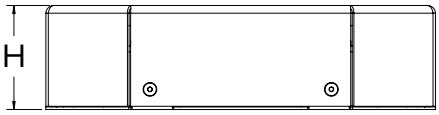
Parcel Static Dimensioning System

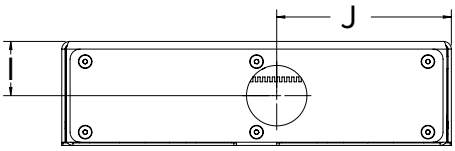
Dimensions

iDimension Plus Scanning Head Assembly			
A	9.66 in (245 mm)	F	1.62 in (41 mm)
B	10.99 in (279 mm)	G	0.52 in (13 mm)
C	4.14 in (105 mm)	H	2.58 in (66 mm)
D	3.25 in (83 mm)	I	1.35 in (34 mm)
E	1.35 in (34 mm)	J	1.25 in (32 mm)





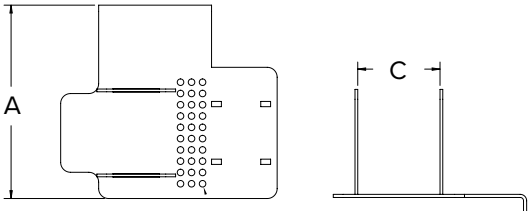


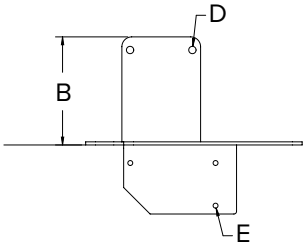


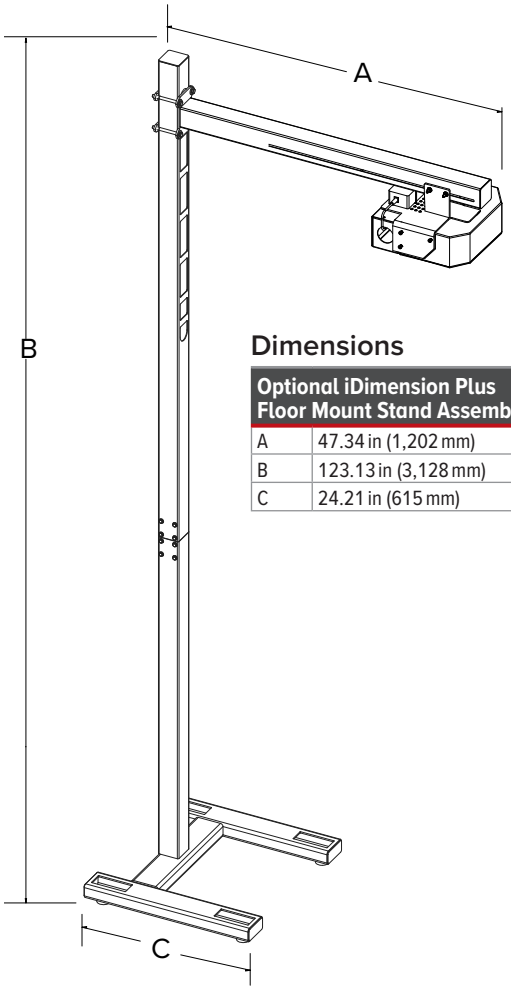
Dimensions

iDimension Plus Mounting Bracket - PN 198708	
A	7.37 in (187 mm)
B	4.12 in (105 mm)
C	3.14 in (80 mm)
D	2x Ø.28
E	3x Ø.19

Use this bracket to mount scanner head to the optional floor stand 174660 or to user provided structure







Dimensions

Optional iDimension Plus Floor Mount Stand Assembly	
A	47.34 in (1,202 mm)
B	123.13 in (3,128 mm)
C	24.21 in (615 mm)

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iDimension® PWD

Pallet and Box Dimensioning System



Standard Features

- Integrated 5 × 5 floor scale with matte black paint
- One high-resolution camera
- Legal for Trade dimensions in two seconds
- iDimension App for data and image storage and transmission
- API and SDK for simple API integration through HTTP requests, status checking and XML parsing
- iDimension QubeVu Server API provides secure data uploads (push) to local and remote data centers including cloud-based locations using REST API with OAuth 2.0

Specifications

Legal for Trade Measurement Capability:
Min: 6 × 6 × 6 in (15 × 15 × 15 cm)
Max: 84 × 72 × 84 in (210 × 180 × 210 cm)

Power Requirements:
110 to 240 VAC power cable included

Communication Ports:
Ethernet TCP/IP, USB, Serial RS-232

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Humidity:
0 to 90% non-condensing

Warranty:
Two-year limited
Five-year limited, sensors only

Approvals:
NTEP 19-076
OIML R129-2000-A-NL1-24.04
CE
UKCA
FCC
EU MID Certified T12563

Approvals

Part Numbers/Price

Part #	Description	Price
199318	iDimension PWD System	$38,995.00

Options/Accessories

Part #	Description	Price
200168	Second high resolution 2.4 mm POE network camera	$875.00
199665	iDimension PWD pallet jack ramp	$945.00
199666	Optional fifth overhead sensor	$2,095.00
212260	Kiosk shelf for optional scanner and printer	$350.00
Scanning and Printing		
229303	Honeywell scanner kit, 1981IFR-3USB-5-N includes USB, power adapter and charging cradle	$2,085.00
225020	QuickScan QD2590 USB barcode scanner	$345.00
212410	Zebra ZD421D printer, direct thermal	$970.00
37345	Label, roll 5 in dia, 1 in core	$24.00
Integration Solutions		
203010	iDimension App (Available for free download at www.ricelake.com)	N/C
175812	iDimension SS (Software Suite) web server software	$2,250.00
Factory Service and Support		
FLD-INSTALL	iDimension field install and training day, travel and expenses not included	$1,395.00
202029	Hourly rate scheduled integration services remote session	$145.00/hr.
Extended Warranty		
202033	One-year optional extended warranty	$1,200.00

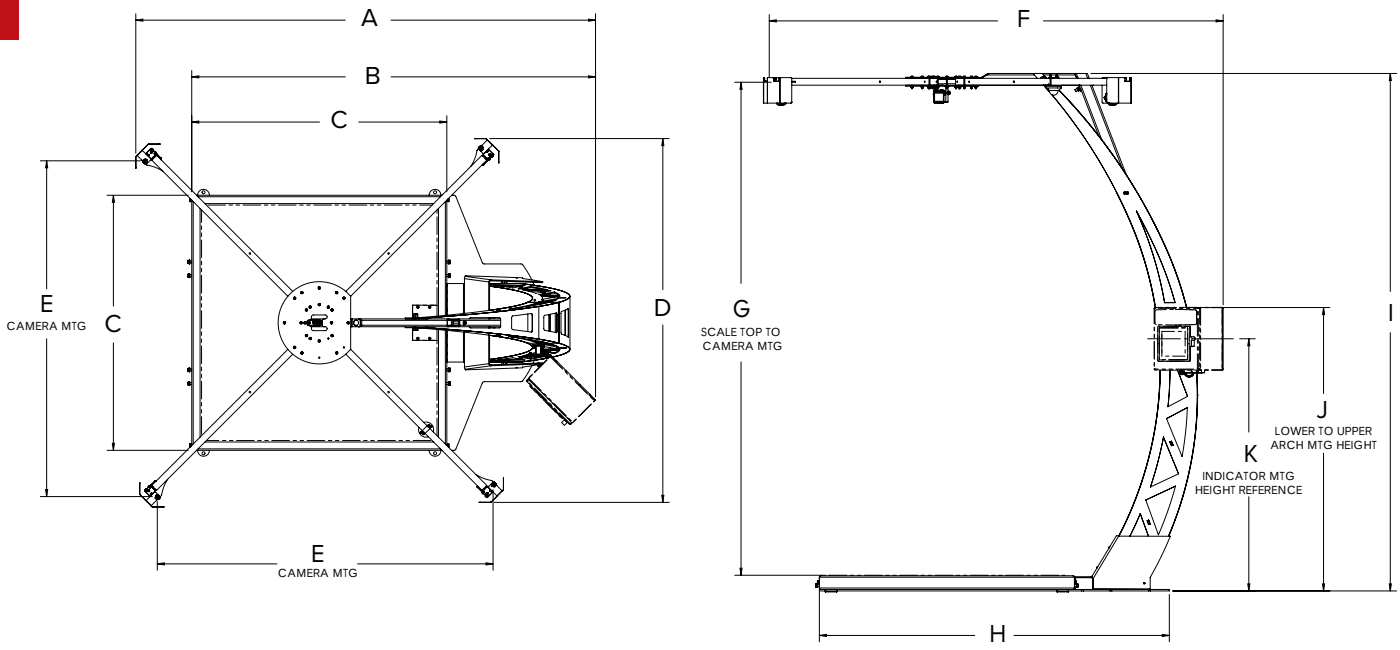
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iDimension® PWD

Pallet and Box Dimensioning System

Dimensions

iDimension PWD					
A	117.15 in (2,976 mm)	E	85.56 in (2,173 mm)	I	131.86 in (3,349 mm)
B	102.89 in (2,613 mm)	F	115.66 in (2,938 mm)	J	72.22 in (1,834 mm)
C	65.00 in (1,651 mm)	G	125.63 in (3,191 mm)	K	64.25 in (1,632 mm)
D	92.70 in (2,355 mm)	H	89.18 in (2,265 mm)		



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iDimension® Flex Series

Pallet and Box Dimensioning System



Suspended or Free-standing mount options available

Approvals

Part Numbers/Price

Part #	Description	Price
219295	iDimension Flex 2-sensor parcel dimensioner	$25,000.00
219294	iDimension Flex 4-sensor free-standing	$27,500.00
219292	iDimension Flex 4-sensor suspended	$25,000.00
230246	iDimension Flex 8-sensor suspended	$37,995.00

Options/Accessories

Part #	Description	Price
219194	Kiosk pedestal base	$895.00
220137	Mounting kit to attach kiosk to 219294 free-standing Flex	$250.00
212260	Kiosk shelf for optional printer or scanner	$350.00
220146	Optional fifth sensor to assist with scanning black stretch film	$2,795.00
205283	80/20 mounting kit, 25 ft high max ceiling height	$3,295.00
188757	Aircraft wire mounting kit, 35 ft high max ceiling height	$1,895.00
214187	RoughDeck floor scale 5 × 5 ft HC, 2,500 kg, flat black paint, Measurement Canada Certified	$2,775.00
213921	RoughDeck floor scale 5 × 5 ft HP, 5,000 lb, flat black paint, NTEP Certified	$2,775.00
86873	RoughDeck bump guard, HP 5 ft	$200.00
213999	RoughDeck ramp, 5 ft	$950.00
200183	680 Plus indicator, LED Display, 115 – 240 VAC with RJ45 Ethernet port and US power cord. Alternately, choose a 1280 for automation applications.	$1,175.00
Scanning and Printing		
225020	QuickScan QD2590 USB barcode scanner	$345.00
229303	Honeywell scanner kit, 1981IFR-3USB-5-N includes USB, power adapter and charging cradle	$2,085.00
212410	Zebra ZD421D printer, direct thermal	$970.00
37345	Label, roll 5 in dia, 1 in core	$24.00
Factory Service and Support		
FLD-INSTALL	iDimension field install and training day. Travel and expenses not included	$1,395.00
202029	Hourly Rate for scheduled integration services remote session	$145.00/hr.
Extended Warranty		
202033	One-year optional extended warranty	$1,200.00

Standard Features

- Free-standing or suspended installation
- One high resolution camera
- Legal for Trade dimensions in two seconds
- iDimension SS (Software Suite) network integration tool kit
- iDimension App for data and image storage and transmission
- API and SDK for simple API integration through HTTP requests, status checking and XML parsing
- iDimension QubeVu Server API provides secure data uploads (push) to local and remote data centers including cloud-based locations using REST API with Auth 2.0

Specifications

Legal for Trade Measurement Capability:
Min:
12 × 12 × 12 in (30 × 30 × 30 cm)
Max:
2-sensor: 84 × 40 × 40 in (210 × 100 × 100 cm)
4-sensor: 102 × 102 × 96 in (260 × 260 × 244 cm)
8-sensor: 156 × 102 × 96 in (396 × 260 × 244 cm)

Power Requirements:
110 to 240 VAC power cable included

Communication Ports:
Ethernet TCP/IP, USB, Serial RS-232

Temperature:
Operating: 14 °F to 104 °F (-10 °C to 40 °C)

Humidity:
0 to 90% non-condensing

Warranty:
Two-year limited
Five-year limited, sensors only

Approvals:
NTEP 19-076
OIML
CE Marked
UKCA
FCC
EU MID Certified



Kiosk



Kiosk with Optional Pedestal

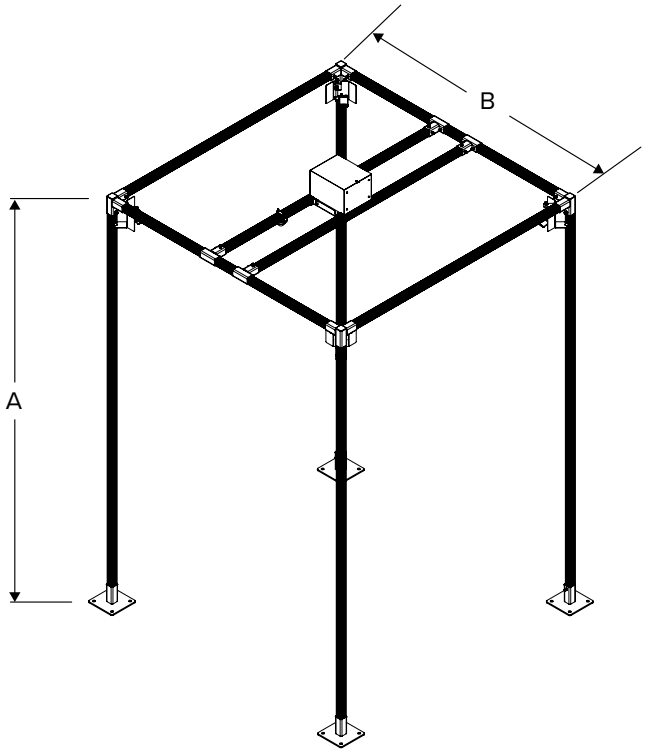
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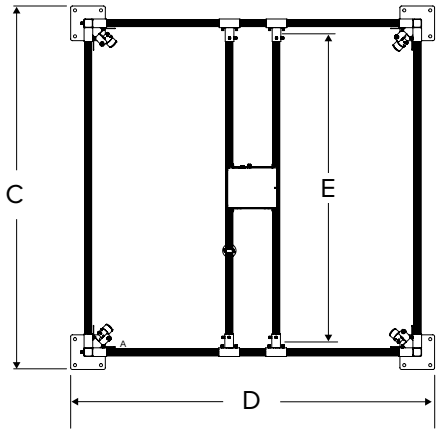
iDimension® Flex Series

Pallet and Box Dimensioning System

Dimensions

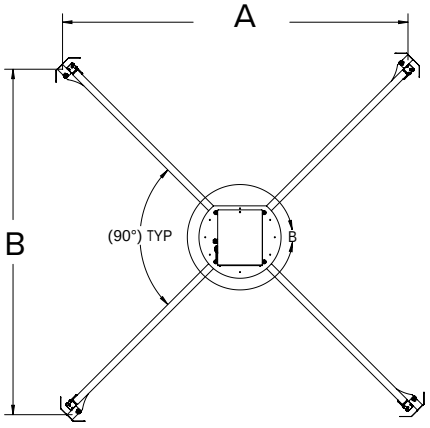
iDimension Flex Free-standing			
A	145.38 in (3,693 mm) max	D	105.00 in (2,667 mm) max
B	93.00 in (2,362 mm)	E	85.08 in (2,161 mm)
C	104.88 in (2,664 mm) max		





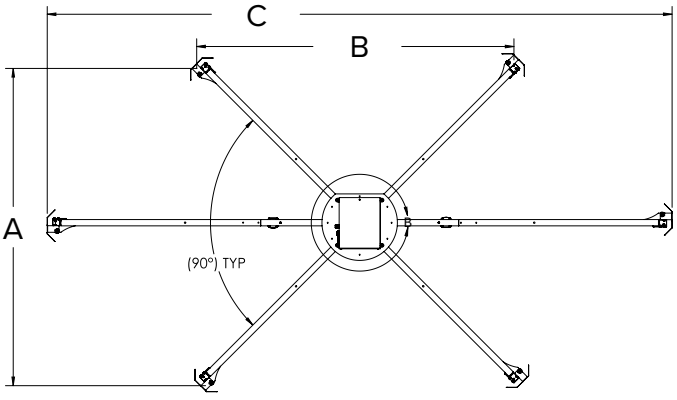
Dimensions

iDimension Flex Suspended (4 Sensor)	
A	88.12 in (2,238 mm)
B	88.12 in (2,238 mm)

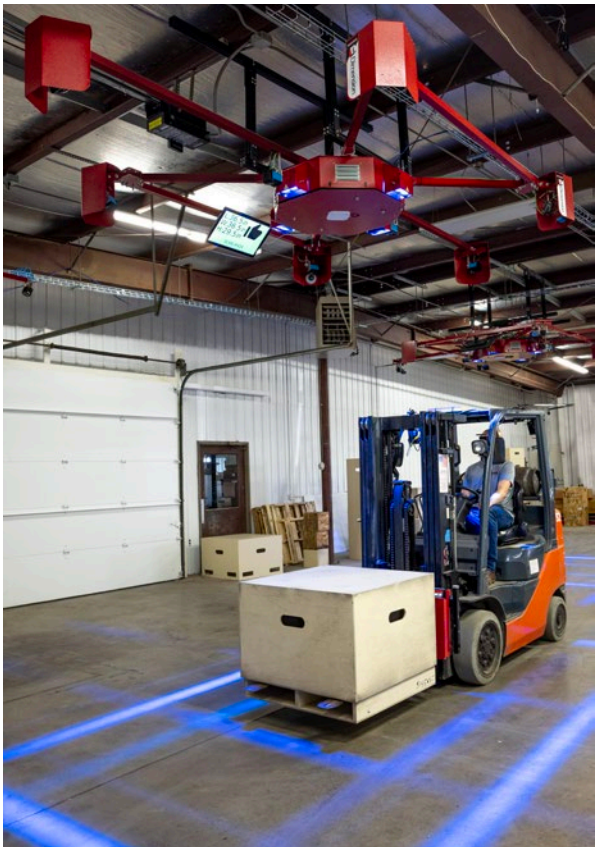


Dimensions

iDimension Flex Suspended (8 Sensor)	
A	88.12 in (2,238 mm)
B	88.12 in (2,238 mm)
C	173.57 in (4,409 mm)



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Standard Features

- 360° approach angle
- Automatic blade angle compensation
- Suspended from ceiling, no sensors on wall or floor
- Dimensions updated in 0.5 seconds
- Target zone and work area blue LED light kit
- Bounding box images identify minimum cube
- One 2K color camera included
- Calibration test object with built in forklift pockets
- API and SDK for simple API integration through HTTP requests, status checking and XML parsing
- iDimension QubeVu Server API provides secure data uploads (push) to local and remote data centers, including cloud-based locations using REST API with OAuth 2.0

Options

- Additional 2K color cameras (up to 6)
- 21.5 in forklift operator display
- RTD Monitor for red/green thumb indication
- iDimension SS (Software Suite) network integration tool
- Stop and go activation key
- In-motion activation key

Specifications

Power Requirements:
110 to 240 VAC, power cable included

Measurement Increment:
NTEP: 0.5 in
OIML: 2 cm

Minimum Pallet Height:
4.25 in (108 mm) wood pallets

Temperature:
Operating: 14 °F to 104 °F (-10 °C to 40 °C)

Humidity:
0 to 90% non-condensing

Warranty:
Two-year limited
One-year limited, sensor only

Approvals:
NTEP 19-076
CE
UKCA
FCC

Approvals

Part Number/Price

Part #	Description	Price
228206	iDimension LTL - 5 with in-motion sensors	$63,495.00
228229	iDimension LTL - 8 with in-motion sensors	$76,450.00
198480	Stop and Go activation key	$7,000.00
229374	In-motion activation key	$7,000.00

DROP AND CLEAR

Forklift stops under the dimensioner, drops the freight and reverses away before triggering dimensioner

Legal for Trade Measurement Capability
- Min: 6 × 6 × 6 in (15 × 15 × 15 cm)
- Max LTL-5: 108 × 108 × 96 in (2.8 × 2.8 × 2.4 m)
- Max LTL-8: 168 × 108 × 96 in (4.2 × 2.8 × 2.4 m)

STOP AND GO

Forklift stops under the dimensioner, with the freight left on the forks, before triggering

Legal for Trade Measurement Capability
- Min: 12 × 12 × 12 in (30 × 30 × 30 cm)
- Max LTL-5: 84 × 84 × 84 in (2.1 × 2.1 × 2.1 m)
- Max LTL-8: 84 × 84 × 84 in (2.1 × 2.1 × 2.1 m)

IN-MOTION

Forklift does not stop - triggering is automatic

Speed:
- Real time capture 1 to 10 mph without stopping

Legal for Trade Measurement Capability
- Min: 12 × 12 × 12 in (30 × 30 × 30 cm)
- Max LTL-5: 84 × 84 × 84 in (2.1 × 2.1 × 2.1 m)
- Max LTL-8: 84 × 84 × 84 in (2.1 × 2.1 × 2.1 m)

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iDimension® LTL

Pallet Dimensioning System

Options/Accessories

Part #	Description	Price
Mounting		
205283	80/20 ceiling mounting kit (25 ft ceiling max)	$3,295.00
229186	Seismic rated aircraft cable ceiling mounting kit (35 ft ceiling max)	$3,695.00
System		
188755	2.4 mm POE network camera – additional high resolution camera (up to 6)	$875.00
193830	LTL 21.5 in commercial forklift operator display kit	$2,995.00
223035	10 m EU power cord	$45.00
223036	10 m UK power cord	$45.00
223037	10 m AU power cord	$45.00
PC		
205073	12 in HMI PC and Ram mounting kit for desk or wall	$6,500.00
202214	HMI PC overhead Ram mounting kit on iDimensioner LTL	$215.00
174659	HMI PC floor stand and guard rail kit	$1,250.00
212433	7 in HMI PC and Ram mounting kit for forklift Winmate PC	$3,250.00
Integration Solutions		
203010	iDimension App (Available for free download at www.ricelake.com)	N/C
175812	iDimension SS (Software Suite) web server software	$2,250.00
201447	iDimension SS real-time status display (Stop and Go)	$250.00
201448	iDimension SS standalone forklift data management (Stop and Go)	$250.00
220981	iDim - CLS Bridge software for Winmate PC	$595.00
Scanning and Printing		
206229	Honeywell wireless long-range TCP/IP barcode scanner kit	$2,695.00
212410	Zebra ZD421D printer, direct thermal	$970.00
37345	Label, roll 5 in dia, 1 in core	$24.00
Stop and Go and In-motion		
231394	Stop and Go/In-motion reflector post kit for Universal Class II 34 in forklift carriages	$300.00
230037	RFID reader, cable and antenna	$4,995.00
230275	RFID Tag and adhesive kit	$17.50
193858	Rice Lake CLS forklift scale cover with Stop and Go reflectors	$145.00
Floor Scales		
213921	RoughDeck floor scale, 5 × 5 ft HP, 5,000 lb, flat black paint, NTEP Certified	$2,775.00
214187	RoughDeck floor scale, 5 × 5 ft HC, 2,500 kg, flat black paint, Measurement Canada Certified	$2,775.00
213922	RoughDeck floor scale 5 × 7 ft HP, 5,000 lb, flat black paint, NTEP Certified	$3,375.00
86820	Bumper guard, HP 7 ft	$435.00
86873	Bumper guard, HP 5 ft	$200.00
213999	RoughDeck ramp, 5 ft	$950.00
200183	680 Plus Indicator, LED display, 115 to 230 VAC with RJ45, US power cord. Alternately, choose a Rice Lake 1280 for automation applications.	$1,175.00
Factory Service and Support		
FLD-INSTALL	iDimension field install and training/day, travel and expenses not included	$1,395.00
202029	Hourly rate scheduled integration services remote session	$145.00
Extended Warranty		
202033	One-year optional extended warranty	$1,200.00

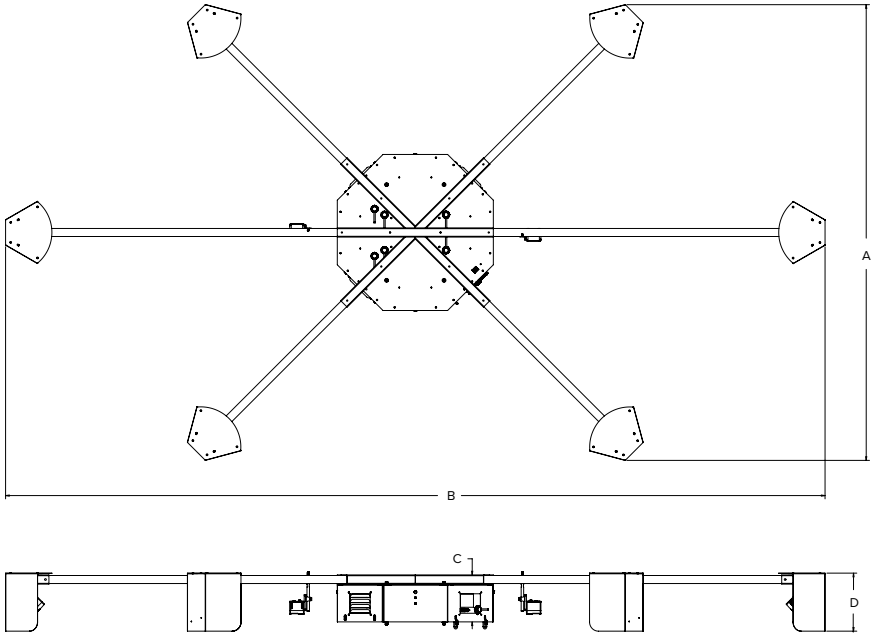


CLS forklift scale shown, found on page 407

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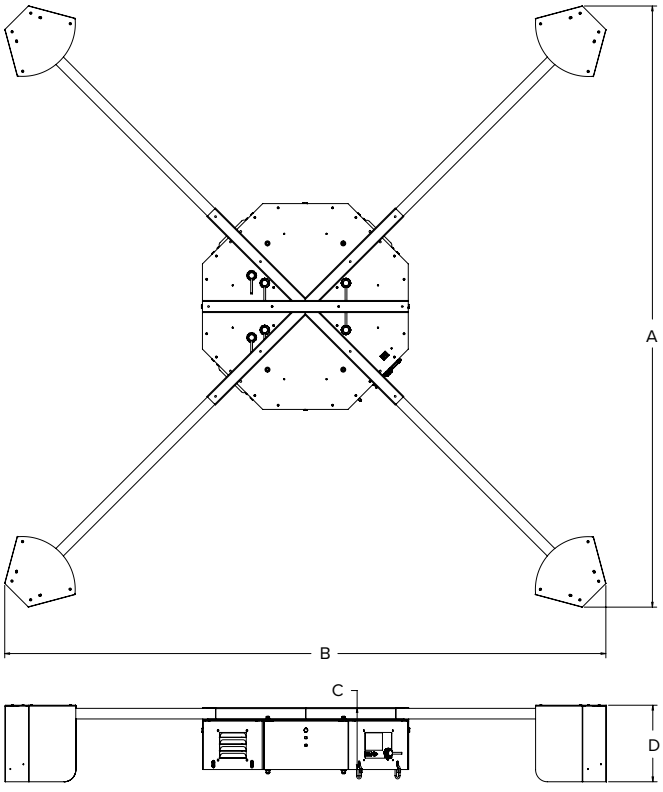
Dimensions

iDimension LTL 8 Sensor			
A	99.30 in (2,522 mm)	C	10.23 in (260 mm)
B	178.56 in (4,535 mm)	D	12.64 in (321 mm)



Dimensions

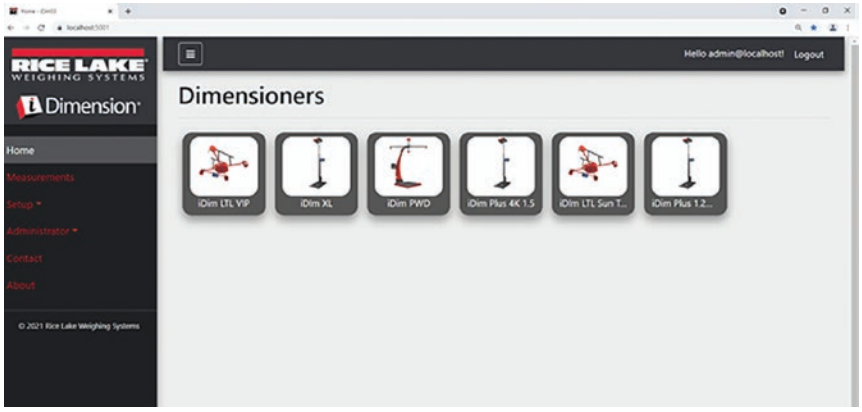
iDimension LTL 5 Sensor			
A	99.30 in (2,522 mm)	C	10.23 in (260 mm)
B	99.30 in (2,522 mm)	D	12.64 in (321 mm)

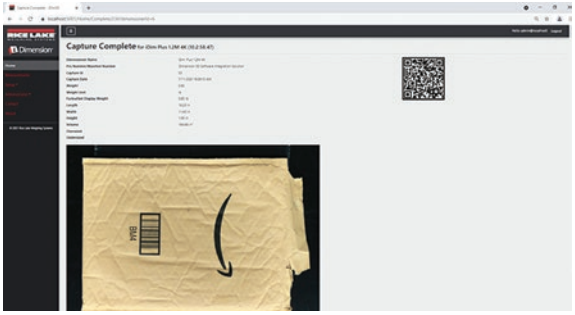


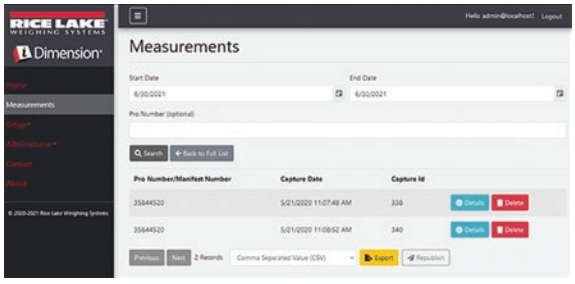
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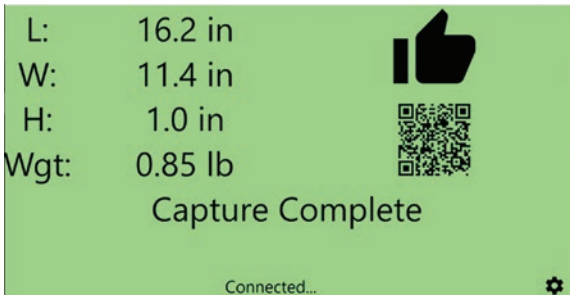
iDimension® SS

Software Suite Integration Software









Standard Features

- Automatically display and/or transmit density and National Motor Freight Classification (NMFC) freight class
- Real-time data access and triggering via REST API Swagger API development toolkit included
- Supported peripherals include bar code scanners and label printers
- Measurement database – configurable for capturing and transferring:
  - Identification #, i.e. Pro or sales order
  - Dimensions L × W × H
  - Scale or manual keyboard weight entry
  - Volume
  - Three configurable user fields
  - Color high resolution images
  - Bounding box images
  - Volumetric conversion
  - Email notification alerts
  - Error logging
- Digital remote I/O configuration for use with PLCs
- Shipping method analyzer for girth and volume analysis thresholds in conjunction with the iDimension SS real-time display desktop application
- Local data storage
- Automatic data export, options include FTP, SFTP, FTPS and SMB configurable
- Data export, including image format composition and annotations available in data export provides output in CSV, JSON, XML and TXT file formats
- QR code display for alternate input into MRP, TMS and WMS systems
- Error logging with high resolution image capture
- Role-based security model protects data and prevents unwanted configuration changes
- Comprehensive application log files available to download
- Forklift database for use with stop and go

SQLite database maximum size capabilities is dependent upon file system type.

System Requirements

- Windows® 10 build 1607 or newer (64-bit only)
- 2.0 GHz processor or faster
- 250 MB hard disk space needed for install
- 8 GB RAM or greater
- Ethernet TCP/IP communication to dimensioning devices plus optional scanners, printers and Rice Lake Weighing 680 and 1280 scale indicators
- Supported web browser (Chrome®, Microsoft Edge®, Firefox®, Safari®)

Part Numbers/Price

Part #	Description	Price
203010	iDimension App (Available for free download at www.ricelake.com)	N/C
175812	iDimension SS (Software Suite) web server software	$2,250.00
201447	iDimension SS real-time status display desktop app (Stop and Go)	$250.00
201448	iDimension SS standalone forklift data management web app (Stop and Go)	$250.00

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Floor Scales

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RoughDeck® HP 343
High Performance Structural Steel Low-profile Floor Scale

RoughDeck® HP-H 345
High Performance Heavy Capacity Floor Scale

RoughDeck® HS 347
Hopper Scale

RoughDeck® RP 348
Rodent Protection Floor Scale

RoughDeck® PC 349
Pancake Deck Cargo Scale

RoughDeck® CS 350
Coil Floor Scale

RoughDeck® CS Rail Car 352
Top-access Coil Scale

RoughDeck® CS Rail Car 353
Under Beam Mount Coil Scale

RoughDeck® SS 354
Stainless Steel Floor Scale

RoughDeck® HE 355
Hostile Environment Stainless Steel Floor Scale

AutoLift HE 356
Pit-type, Hostile Environment Stainless Steel Lift Floor Scale

RoughDeck® QC-X 358
Quick Clean Extreme Lift Floor Scale with Solid Plate Base

RoughDeck® QC-XP 360
Quick Clean Extreme Portable Solid Base Plate Floor Scale

RoughDeck® QC 361
Quick Clean Stainless Steel Lift Floor Scale

RoughDeck® SD 364
Sanitary Deck Floor Scale

RoughDeck® LP 365
Low-profile Floor Scale

RoughDeck® PW-1 Mild Steel 366
Low-profile Pallet Weighing Floor Scale

RoughDeck® PW-1 Stainless Steel 367
Low-profile Pallet Weighing Floor Scale

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Barrel, Drum, Pallet Scale – Portable Model

RoughDeck® BDP Stainless Steel 370
Barrel, Drum, Pallet Scale - Stationary Model

RoughDeck® BDP Stainless Steel 371
Barrel, Drum, Pallet Scale – Portable Model

DeckHand™ 372
Portable Floor Scale

RL1200 373
Mechanical Portable Beam Scale

RL1200 EM 374
Electromechanical Portable Beam Scale and 380 Indicator

RL1200 IS 375
Intrinsically Safe Electromechanical Portable Beam Scale

Altralite™ 376
Portable Low-profile Anodized Aluminum Floor Scale

RoughDeck® FXB 377
Painted Steel and Stainless Steel, Flexure Lever Floor Scale

Summit® 3000 and 120 Indicator Package 378
Floor Scale/120 Indicator Package

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RoughDeck® HP and SS 390
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RoughDeck® HP 391
Forklift SENDit Portability Frames, Non-NTEP

RoughDeck® HP 392
Forklift SENDit Portability Frames, NTEP

RoughDeck® HP 393
Caster Portability Frames

RoughDeck® HP 394
Caster SENDit Portability Frames, Non-NTEP

RoughDeck® HP 395
Caster SENDit Portability Frames, NTEP

RoughDeck® HP, SS & HE 396
*Pit Frame Concrete Details**

RoughDeck® HP-H 397
Pit Frame Concrete Details – 20,000lb Capacity*

RoughDeck® HP-H 398
Pit Frame Concrete Details – 30,000lb Capacity*

AutoLift HE 399
*Pit Frame Concrete Details**

RoughDeck® QC-X 400
*Pit Frame Concrete Details**

RoughDeck® QC 401
*Pit Frame Concrete Details**

Summit® 3000 402
*Pit Frame Concrete Details**

The following product names, logos, brands and other trademarks featured or referred to within this publication are the property of their respective trademark holders.

RoughDeck® Rough-n-Ready System

Floor Scale and 381 Indicator Package



Shown with optional floor stand for indicator

Approvals

Measurement Canada Approved

Part Number/Price

Part#	Floor Scale Capacity	Indicator	Est. Weight	Price
† 4 ft × 4 ft × 3.5 in RoughDeck (NTEP Certified) 381 Indicator with AA battery and 12V power adaptor				
219279	5,000 lb	381	405 lb	$2,620.00
219280	10,000 lb	381	405 lb	$2,620.00
† 4 ft × 4 ft × 3.5 in RoughDeck (Canadian Weights and Measures Approved) 381 Indicator with AA battery and 12V power adaptor				
219281	2,500 kg	381	405 lb	$2,620.00
219282	5,000 kg	381	405 lb	$2,620.00
† 4 ft × 4 ft × 3.5 in RoughDeck (NTEP Certified) 381 Indicator with NiMH battery and charger				
219283	5,000 lb	381	405 lb	$2,720.00
219284	10,000 lb	381	405 lb	$2,720.00
† 4 ft × 4 ft × 3.5 in RoughDeck (Canadian Weights and Measures Approved) 381 Indicator with NiMH battery and charger				
219285	2,500 kg	381	405 lb	$2,720.00
219286	5,000 kg	381	405 lb	$2,720.00

† US plug (NA) - Type A

Options/Accessories

Part#	Description	Price
Consult	Access ramps available	See catalog page 381
Consult	Pit frames available	See catalog page 384
Consult	Bumper guards available	See catalog page 387 through catalog page 389
Consult	Portability frames available	See catalog page 390 through catalog page 395
18777	Floor anchor plates, mild steel (set of 2)	$40.00
19352	Floor stand for indicator, 36.3 in high, mild steel	$250.00
126384	Floor stand for indicator, 48 in high, mild steel	$275.00

Standard Features

- Package includes: RoughDeck HP 4 ft × 4 ft × 3.5 in floor scale, 20 ft of hostile environment load cell cable, quick disconnect and 381 indicator
- Package is factory-calibrated for 5,000 divisions

Scale

- Heavy-duty design with structural steel under support
- Four NTEP Certified alloy steel shear beam load cells
- Side-access JB4SS TuffSeal® junction box

Indicator

- LCD display
- Communication ports
- ABS enclosure
- Battery powered

RoughDeck Specifications

End Load Capacity:
200% full scale at 1,000 lb
100% full scale at 2,000 and 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001, Class III 5,000 d
Measurement Canada AM-4827, Class III 5,000d
Load cell is NTEP
Load cell is cFMus Approved

381 Specifications

Power:
Battery: AA or Nickel Metal Hydride (NiMH)
381-2D-AA Adapter: 115/230 VAC to 12 VDC
381-2D-NiMH Charger: 115/230 VAC

Battery Life:
AA: 16 hours with 4 × 350 ohm load cells, low backlight
NiMH: 19 hours with 4 × 350 ohm load cells, low backlight

Communication Ports:
One full-duplex RS-232
One USB 2.0

Display:
Six 1 in (25 mm) tall, LCD digits

Annunciators:
g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Keys/Buttons:
Five tactile buttons

Rating/Material:
AA Battery: IP54, ABS
NiMH Battery: IP66, ABS

Approvals:
NTEP 21-051
Measurement Canada AM-6184
CE Listed

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RoughDeck® Rough-n-Ready System

Floor Scale and 380 Indicator Package



Shown with optional floor stand for indicator

Approvals

Measurement Canada Approved

Part Number/Price

Part#	Floor Scale Capacity	Indicator	Est. Weight	Price
† 4 ft × 4 ft × 3.5 in RoughDeck (NTEP Certified) Indicator Package with Tilt Stand				
208558	5,000 lb	380	405 lb	$2,930.00
208585	10,000 lb	380	405 lb	$2,930.00
† 4 ft × 4 ft × 3.5 in RoughDeck (Canadian Weights and Measures Approved) Indicator Package with Tilt Stand				
208582	2,500 kg	380	405 lb	$2,930.00
208586	5,000 kg	380	405 lb	$2,930.00

† *US plug (NA) - Type A*

Options/Accessories

Part#	Description	Price
206433	External AC adapter for 380 indicator	$60.00
Consult	Access ramps available	See catalog page 381
Consult	Pit frames available	See catalog page 384
Consult	Bumper guards available	See catalog page 387 through catalog page 389
Consult	Portability frames available	See catalog page 390 through catalog page 395
18777	Floor anchor plates, mild steel (set of 2)	$40.00
19352	Floor stand for indicator, 36.3 in high, mild steel	$250.00
126384	Floor stand for indicator, 48 in high, mild steel	$275.00

Standard Features

- Package includes: RoughDeck HP 4 ft × 4 ft × 3.5 in floor scale, 20 ft of hostile environment load cell cable, quick disconnect and 380 indicator
- Package is factory-calibrated for 5,000 divisions

Scale

- Heavy-duty design with structural steel under support
- Four NTEP Certified alloy steel shear beam load cells
- Side-access JB4SS TuffSeal® junction box

Indicator

- LCD display
- Communication ports
- Stainless steel enclosure

RoughDeck Specifications

End Load Capacity:
100% full scale at 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001, Class III 5,000 d
Measurement Canada AM-4827, Class III 5,000 d

380 Specifications

Power:
Batteries: Four alkaline C-cell (not included)
Optional: 115/230 VAC to 12 VDC adapter

Battery Life:
45 hours, continuous use on alkaline batteries with four 350 ohm load cells, low backlight

Communication Ports:
One full-duplex RS-232
One USB 2.0

Display:
Six 1 in (25 mm) tall, LCD digits

Annunciators:
g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Keys/Buttons:
Five tactile buttons

Rating/Material:
Enclosure: IP66, 304 stainless steel

Approvals:
NTEP 21-051
Measurement Canada AM-6184
CE Marked
cULus Listed

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RoughDeck® Rough-n-Ready System

Floor Scale and 680 Indicator Package





Shown with optional floor stand for indicator

Approvals

Measurement Canada Approved

Part Number/Price

Part#	Floor Scale Capacity	Indicator	Est. Weight	Price
† 115 VAC - 4 ft × 4 ft × 3.5 in RoughDeck (NTEP Certified) Indicator Package with Tilt Stand				
196661	5,000 lb	680	405 lb	$3,250.00
196662	10,000 lb	680	405 lb	$3,250.00
†† 230 VAC - 4 ft × 4 ft × 3.5 in RoughDeck (NTEP Certified) Indicator Package with Tilt Stand				
196663	5,000 lb	680	405 lb	$3,250.00
196664	10,000 lb	680	405 lb	$3,250.00
† 115 VAC 4 ft × 4 ft × 3.5 in RoughDeck (Canadian Weights and Measures Approved) Indicator Package with Tilt Stand				
196665	2,500 kg	680	405 lb	$3,250.00
196666	5,000 kg	680	405 lb	$3,250.00

†† *CEE 7/7 plug* † *NEMA 5-15 plug*

Options/Accessories

Part#	Description	Price
Consult	Access ramps available	See catalog page 381
Consult	Pit frames available	See catalog page 384
Consult	Bumper guards available	See catalog page 387 through catalog page 389
Consult	Portability frames available	See catalog page 390 through catalog page 395
18777	Floor anchor plates, mild steel (set of 2)	$40.00
19352	Floor stand for indicator, 36.3 in high, mild steel	$250.00
126384	Floor stand for indicator, 48 in high, mild steel	$275.00

Standard Features

- Package includes: RoughDeck HP 4 ft × 4 ft × 3.5 in floor scale, 20 ft of hostile environment load cell cable, quick disconnect and 680 indicator
- Package factory-calibrated for 5,000 divisions

Scale

- Heavy-duty design with structural steel under support
- Four NTEP Certified alloy steel shear beam load cells
- Side-access JB4SS TuffSeal® junction box

Indicator

- Bright seven-digit, seven-segment LED display
- Battery backed time and date
- Full numeric keypad
- Communication ports

RoughDeck Specifications

End Load Capacity:
100% full scale at 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001, Class III 5,000 d
Measurement Canada AM-4827, Class III 5,000 d

680 Specifications

Communication Ports:
Two full-duplex RS-232
RS-485/422 (five-wire)
Micro USB (device)
Ethernet TCP/IP (10/100)

Display:
Seven 0.8 in tall, seven-segment digits

Annunciators:
Eight LED annunciators

Keys/Buttons:
Flat membrane panel, tactile feel (18 buttons plus on/off)

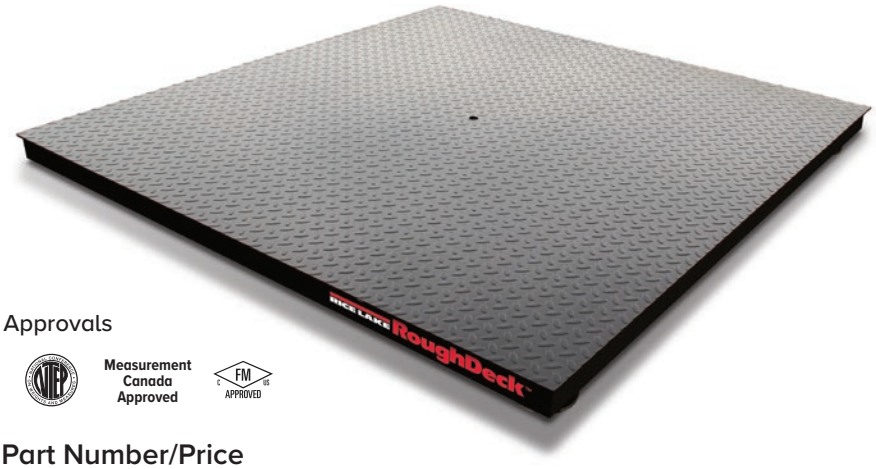
Rating/Material:
IP69K (IP66 with RJ45)
AISI 304 stainless Steel

Approvals:
NTEP 19-021
Measurement Canada AM-6121C
cULus Listed

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RoughDeck® HP

High Performance Structural Steel Low-profile Floor Scale



Approvals

Measurement Canada Approved

Part Number/Price

Part # With Quick Connector	Part # Without Quick Connector	Size (W × L × H)	Capacity	Est. Weight	Price
232022†	**232023**†	2.5 ft × 2.5 ft × 3.5 in	1,000 lb	232 lb	$2.095.00
66318†	**67695**†	2.5 ft × 2.5 ft × 3.5 in	2,000 lb	173 lb	$2,095.00
232024†	**232025**†	2.5 ft × 2.5 ft × 3.5 in	2,500 lb	232 lb	$2.095.00
66320†	**67693**†	3 ft × 3 ft × 3.5 in	1,000 lb	232 lb	$2,095.00
66317†	**67696**†	3 ft × 3 ft × 3.5 in	2,000 lb	232 lb	$2,095.00
232013†	**232014**†	3 ft × 3 ft × 3.5 in	2,500 lb	232 lb	$2.095.00
105300†	**105301**†	3 ft × 3 ft × 3.5 in	5,000 lb	232 lb	$2,095.00
66319	**67694**	4 ft × 4 ft × 3.5 in	1,000 lb	375 lb	$2,225.00
67618	**67697**	4 ft × 4 ft × 3.5 in	2,000 lb	375 lb	$2,225.00
232016	**232017**	4 ft × 4 ft × 3.5 in	2,500 lb	375 lb	$2,225.00
66316	**67698**	4 ft × 4 ft × 3.5 in	5,000 lb	375 lb	$2,225.00
66315	**67699**	4 ft × 4 ft × 3.5 in	10,000 lb	375 lb	$2,225.00
66314	**67700**	4 ft × 5 ft × 3.5 in	5,000 lb	437 lb	$2,445.00
66313	**67701**	4 ft × 5 ft × 3.5 in	10,000 lb	567 lb	$3,285.00
66312	**67702**	4 ft × 6 ft × 3.5 in	5,000 lb	510 lb	$2,635.00
66311	**67703**	4 ft × 6 ft × 3.5 in	10,000 lb	656 lb	$3,475.00
66310	**67704**	5 ft × 5 ft × 3.5 in	5,000 lb	541 lb	$2,675.00
66309	**67705**	5 ft × 5 ft × 3.5 in	10,000 lb	696 lb	$3,515.00
66308	**67706**	5 ft × 6 ft × 3.5 in	5,000 lb	646 lb	$2,950.00
66307	**67707**	5 ft × 6 ft × 3.5 in	10,000 lb	821 lb	$4,000.00
66306	**67708**	5 ft × 7 ft × 3.5 in	5,000 lb	734 lb	$3,175.00
66305	**67709**	5 ft × 7 ft × 3.5 in	10,000 lb	929 lb	$4,225.00
Canadian Weights and Measures Approved					
191928†	**191930**†	2.5 ft × 2.5 ft × 3.5 in	1,000 kg	173 lb	$2,095.00
191949†	**191950**†	3 ft × 3 ft × 3.5 in	500 kg	232 lb	$2,095.00
66464†	**67710**†	3 ft × 3 ft × 3.5 in	1,000 kg	232 lb	$2,095.00
191931†	**191932**†	3 ft × 3 ft × 3.5 in	2,500 kg	232 lb	$2,095.00
191951	**191952**	4 ft × 4 ft × 3.5 in	500 kg	375 lb	$2,225.00
191933	**191934**	4 ft × 4 ft × 3.5 in	1,000 kg	375 lb	$2,225.00
66465	**67711**	4 ft × 4 ft × 3.5 in	2,500 kg	375 lb	$2,225.00
66466	**67712**	4 ft × 4 ft × 3.5 in	5,000 kg	375 lb	$2,225.00
191935	**191936**	4 ft × 5 ft × 3.5 in	2,500 kg	437 lb	$2,445.00
191937	**191938**	4 ft × 5 ft × 3.5 in	5,000 kg	567 lb	$3,285.00
191939	**191940**	4 ft × 6 ft × 3.5 in	2,500 kg	510 lb	$2,635.00
191941	**191942**	4 ft × 6 ft × 3.5 in	5,000 kg	656 lb	$3,475.00
66467	**67713**	5 ft × 5 ft × 3.5 in	2,500 kg	541 lb	$2,675.00
66468	**67714**	5 ft × 5 ft × 3.5 in	5,000 kg	696 lb	$3,515.00
191943	**191944**	5 ft × 6 ft × 3.5 in	2,500 kg	646 lb	$2,950.00
191945	**191946**	5 ft × 6 ft × 3.5 in	5,000 kg	821 lb	$4,000.00
66469	**67715**	5 ft × 7 ft × 3.5 in	2,500 kg	934 lb	$3,175.00
66470	**67716**	5 ft × 7 ft × 3.5 in	5,000 kg	929 lb	$4,225.00

† *Not recommended for use with pallet jacks*

Standard Features

- Heavy-duty industrial design
- Structural steel channel frame
- Diamond safety tread plate deck
- Four NTEP Certified alloy steel, shear beam load cells
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable
- Side-access junction box
- Four adjustable stainless steel SUREFOOT™ support feet
- Four corner overload stops (Canadian versions only)
- Level bubble (Canadian versions only)

Specifications

End Load Capacity:
200% full scale at 1,000 lb
100% full scale at 2,000 and 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch

Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001, Class III 5,000 d
Measurement Canada AM-4827, Class III 5,000d
Load cell is NTEP
Load cell is cFMus Approved

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RoughDeck® HP

High Performance Structural Steel Low-profile Floor Scale

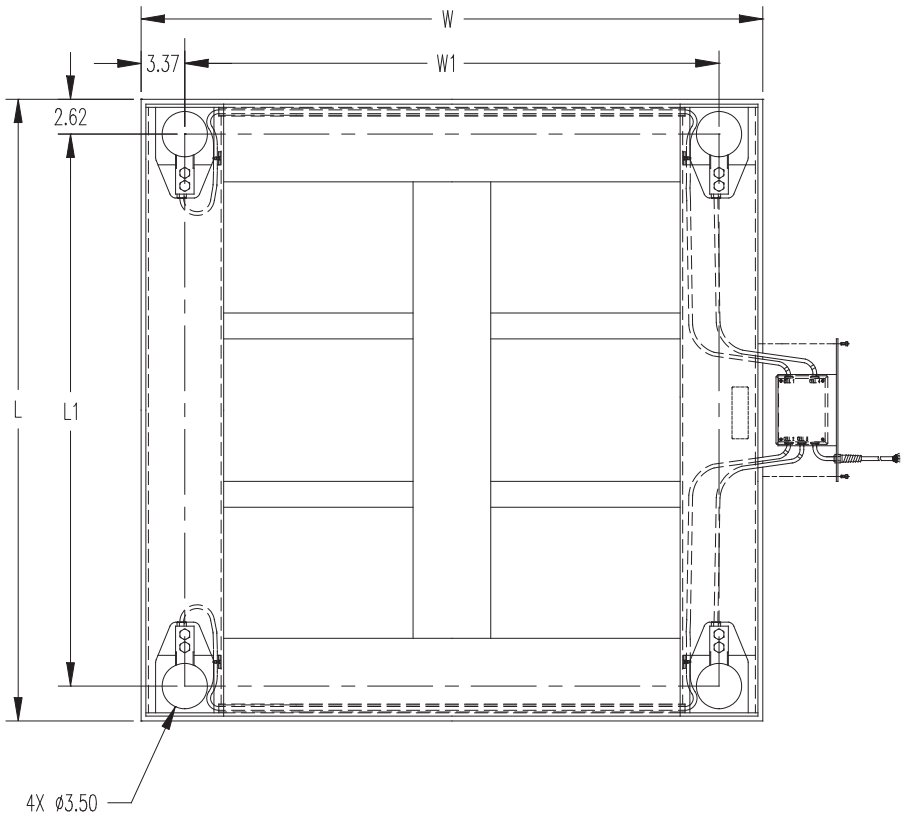
Options/Accessories

Part #	Description	Price
Consult	Access ramps available	See catalog page 381
Consult	Pit frames available	See catalog page 384
Consult	Bumper guards available	See catalog page 387 through catalog page 389
Consult	Portability frames available	See catalog page 390 through catalog page 395
Consult	Smooth deck instead of diamond safety treadplate	N/C
Consult	Four drilled deck holes for scale height adjustment	$40.00
18777	Floor anchor plates, mild steel (set of 2)	$40.00
19352	Floor stand for indicator, 36.3 in high, mild steel	$250.00
126384	Floor stand for indicator, 48 in high, mild steel	$275.00
Consult	Mild steel deck with RL32018S IP66 stainless steel cFMus approved load cells and hardware	+$128.00 list price add-on
Consult	Mild steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware	+$468.00 list price add-on
Consult	Epoxy paint	+$150.00 list price add-on
Consult	Top-access junction box	+$100.00 list price add-on
Consult	Forklift channel option (up to 7 × 5 ft 10,000 lb, accommodates fork tines no larger than (W × H) 5 × 2 in, fork entry is on opposite side of junction box location)	+$500.00 list price add-on

Dimensions

L	L1	W	W1	H
30.00 in	24.75 in	30.00 in	23.25 in	3.50 in
36.00 in	30.75 in	36.00 in	29.25 in	3.50 in
48.00 in	42.75 in	48.00 in	41.25 in	3.50 in
60.00 in	54.75 in	48.00 in	41.25 in	3.50 in
72.00 in	66.75 in	48.00 in	41.25 in	3.50 in
60.00 in	54.75 in	60.00 in	53.25 in	3.50 in
72.00 in	66.75 in	60.00 in	53.25 in	3.50 in
84.00 in	78.75 in	60.00 in	53.25 in	3.50 in

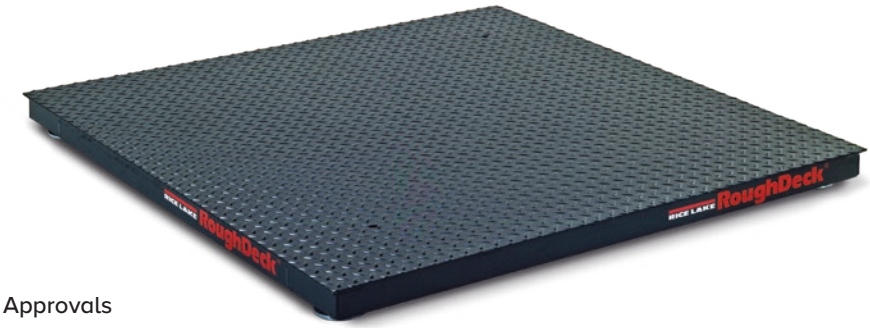
Note: 1 in=25.4 mm.



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RoughDeck® HP-H

High Performance Heavy Capacity Floor Scale



Approvals

Measurement Canada Approved

Capacities greater than 10,000 kg

Part Number/Price

Part # With Quick Connector	Part # Without Quick Connector	Size (W × L × H)	Capacity	Est. Weight	Price
NTEP Approved					
66474	67717	4 ft × 4 ft × 4 in	20,000 lb (10,000 kg)	601 lb	$4,130.00
66475	67718	4 ft × 5 ft × 4 in	20,000 lb (10,000 kg)	775 lb	$4,415.00
66476	67719	4 ft × 6 ft × 4 in	20,000 lb (10,000 kg)	926 lb	$4,815.00
66477	67720	4 ft × 7 ft × 4 in	20,000 lb (10,000 kg)	1,135 lb	$5,200.00
66478	67721	5 ft × 5 ft × 4 in	20,000 lb (10,000 kg)	926 lb	$4,790.00
66479	67722	5 ft × 6 ft × 4 in	20,000 lb (10,000 kg)	1,104 lb	$5,380.00
66480	67723	5 ft × 7 ft × 4 in	20,000 lb (10,000 kg)	1,377 lb	$5,615.00
66481	67724	6 ft × 6 ft × 4 in	20,000 lb (10,000 kg)	1,319 lb	$6,350.00
66482	67725	6 ft × 8 ft × 4 in	20,000 lb (10,000 kg)	1,861 lb	$7,875.00
66483	67726	7 ft × 9 ft × 4 in	20,000 lb (10,000 kg)	2,408 lb	$9,840.00
66484	67727	7 ft × 10 ft × 4 in	20,000 lb (10,000 kg)	2,959 lb	$11,440.00
66485	67728	8 ft × 10 ft × 4 in	20,000 lb (10,000 kg)	3,108 lb	$12,925.00
66486	67729	4 ft × 4 ft × 5 in	30,000 lb (15,000 kg)	675 lb	$4,940.00
66487	67730	4 ft × 5 ft × 5 in	30,000 lb (15,000 kg)	839 lb	$5,390.00
66488	67731	4 ft × 6 ft × 5 in	30,000 lb (15,000 kg)	1,071 lb	$5,575.00
66489	67732	4 ft × 7 ft × 5 in	30,000 lb (15,000 kg)	1,200 lb	$5,985.00
66490	67733	5 ft × 5 ft × 5 in	30,000 lb (15,000 kg)	1,021 lb	$5,530.00
66491	67734	5 ft × 7 ft × 5 in	30,000 lb (15,000 kg)	1,448 lb	$6,375.00
66492	67735	6 ft × 6 ft × 5 in	30,000 lb (15,000 kg)	1,438 lb	$7,220.00
66493	67736	7 ft × 10 ft × 5 in	30,000 lb (15,000 kg)	3,372 lb	$12,505.00
66494	67737	8 ft × 10 ft × 5 in	30,000 lb (15,000 kg)	3,699 lb	$14,030.00
Canadian Weights and Measures Approved					
197355	197365	4 ft × 4 ft × 5 in	30,000 lb (15,000 kg)	675 lb	$4,940.00
197356	197366	4 ft × 5 ft × 5 in	30,000 lb (15,000 kg)	839 lb	$5,390.00
197357	197367	4 ft × 6 ft × 5 in	30,000 lb (15,000 kg)	1,071 lb	$5,575.00
197358	197368	4 ft × 7 ft × 5 in	30,000 lb (15,000 kg)	1,200 lb	$5,985.00
197359	197369	5 ft × 5 ft × 5 in	30,000 lb (15,000 kg)	1,021 lb	$5,530.00
197360	197375	5 ft × 7 ft × 5 in	30,000 lb (15,000 kg)	1,448 lb	$6,375.00
197361	197376	6 ft × 6 ft × 5 in	30,000 lb (15,000 kg)	1,438 lb	$7,220.00
197363	197377	7 ft × 10 ft × 5 in	30,000 lb (15,000 kg)	3,372 lb	$12,505.00
197364	197378	8 ft × 10 ft × 5 in	30,000 lb (15,000 kg)	3,699 lb	$14,030.00

Standard Features

- Heavy-duty industrial design
- Structural steel channel frame
- Diamond safety tread plate deck
- Four NTEP Certified alloy steel, shear beam load cells
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable
- Side-access junction box
- Four adjustable mild steel SUREFOOT™ support feet

Specifications

End Load Capacity:
100% full scale at 20,000 lb
66% full scale at 30,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch

Threaded Eyebolt:
Hole (3/4-10 NC) located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001, Class III, 5,000 d
Measurement Canada AM-5284
(Only capacities greater than 10,000 kg)
Load Cell NTEP
Load Cell cFMus Approved

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RoughDeck® HP-H

High Performance Heavy Capacity Floor Scale

Options/Accessories

Part #	Description	Price
Consult	Access ramps available	See catalog page 381
Consult	Pit frames available	See catalog page 384
Consult	Bumper guards available	See catalog page 387 through catalog page 389
Consult	Portability frames available	See catalog page 390 through catalog page 395
Consult	Smooth deck instead of diamond safety treadplate	No charge
40387	Anchor plate set, mild steel, 20,000 lb capacity models (optional)	$55.00
40388	Anchor plate set, mild steel, 30,000 lb capacity models (optional)	$55.00
Consult	Four drilled deck holes for scale height adjustment	$40.00
19352	Floor stand for indicator, 36.3 in high, mild steel	$250.00
126384	Floor stand for indicator, 48 in high, mild steel	$275.00
Consult	Mild steel deck with RL32018S IP66 stainless steel cFMus approved load cells and hardware	+$168.00 list price add-on
Consult	Mild steel deck with RL32218S-HE welded-seal IP69K stainless steel cFMus approved load cells and hardware	+$316.00 list price add-on
Consult	Epoxy paint	+$150.00 list price add on
Consult	Top-access junction box	+$100.00 list price add-on

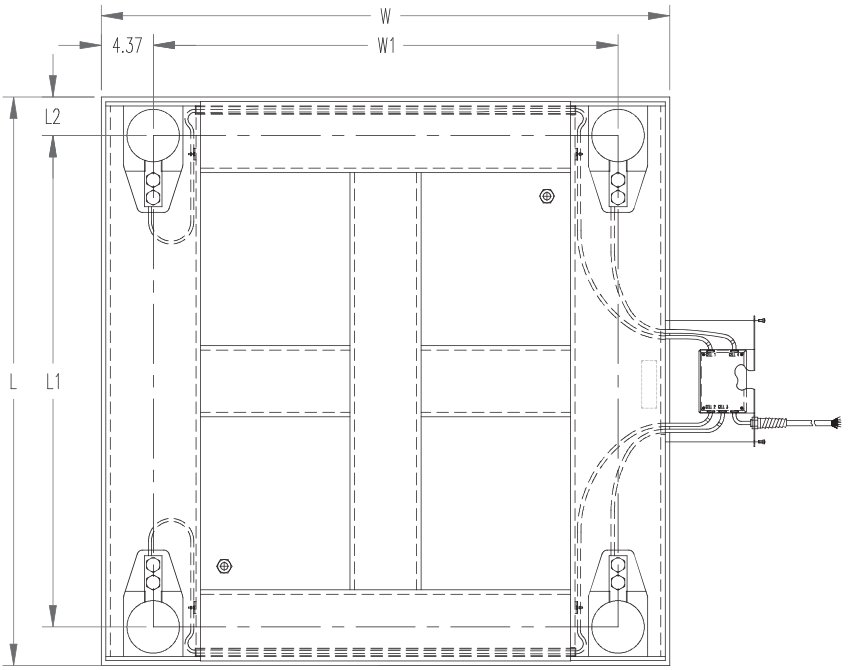
Dimensions

L	L1	W	W1	H
20,000 Capacity				
48.00 in	41.50 in	48.00 in	39.25 in	4.00 in
60.00 in	53.50 in	48.00 in	39.25 in	4.00 in
72.00 in	65.50 in	48.00 in	39.25 in	4.00 in
84.00 in	77.50 in	48.00 in	39.25 in	4.00 in
60.00 in	53.50 in	60.00 in	51.25 in	4.00 in
72.00 in	65.50 in	60.00 in	51.25 in	4.00 in
84.00 in	77.50 in	60.00 in	51.25 in	4.00 in
72.00 in	65.50 in	72.00 in	63.25 in	4.00 in
96.00 in	89.50 in	72.00 in	63.25 in	4.00 in
180.00 in	101.50 in	84.00 in	75.25 in	4.00 in
120.00 in	113.50 in	84.00 in	75.25 in	4.00 in
120.00 in	113.50 in	96.00 in	87.25 in	4.00 in

Note: 1 in=25.4 mm.

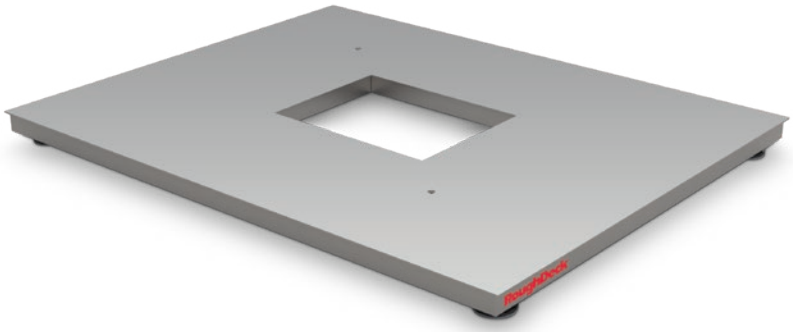
L	L1	W	W1	H
30,000 Capacity				
48.00 in	40.50 in	48.00 in	39.25 in	5.00 in
60.00 in	52.50 in	48.00 in	39.25 in	5.00 in
72.00 in	64.50 in	48.00 in	39.25 in	5.00 in
84.00 in	76.50 in	48.00 in	39.25 in	5.00 in
60.00 in	52.50 in	60.00 in	51.25 in	5.00 in
84.00 in	76.50 in	60.00 in	51.25 in	5.00 in
72.00 in	64.50 in	72.00 in	63.25 in	5.00 in
120.00 in	112.50 in	84.00 in	75.25 in	5.00 in
120.00 in	112.50 in	96.00 in	87.25 in	5.00 in

Note: 1 in=25.4 mm.



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NEW



Capacity of Scale
10,000 lb capacity or less

Floor Scale Material: ☐ *Painted Steel* ☐ *Stainless Steel*

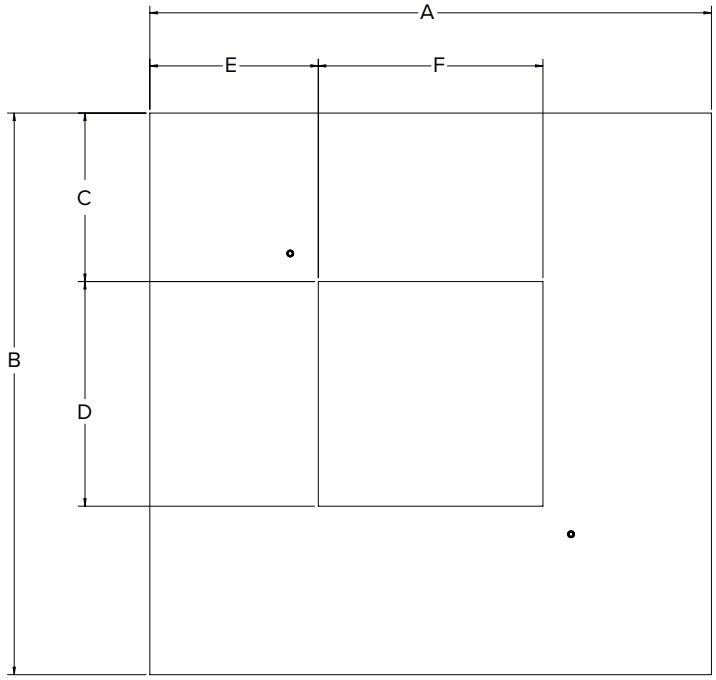
Load Cell Material: ☐ *Alloy* ☐ *Stainless Steel*

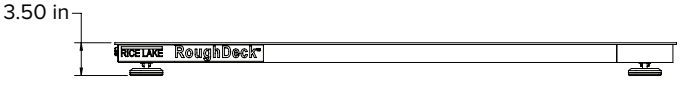
Top Plate Surface: ☐ *Diamond Tread* ☐ *Smooth*

Foot Adjust Holes: ☐ *Yes* ☐ *No*

Junction Box Access: ☐ *Side* ☐ *Top*

Scale Size	
A Scale Overall Width	
B Scale Overall Depth	
C Distance from Opening to Back of Scale	
D Hole Opening Depth	
E Distance from Opening to Side of Scale	
F Hole Opening Width	





RoughDeck® RP

Rodent Protection Floor Scale



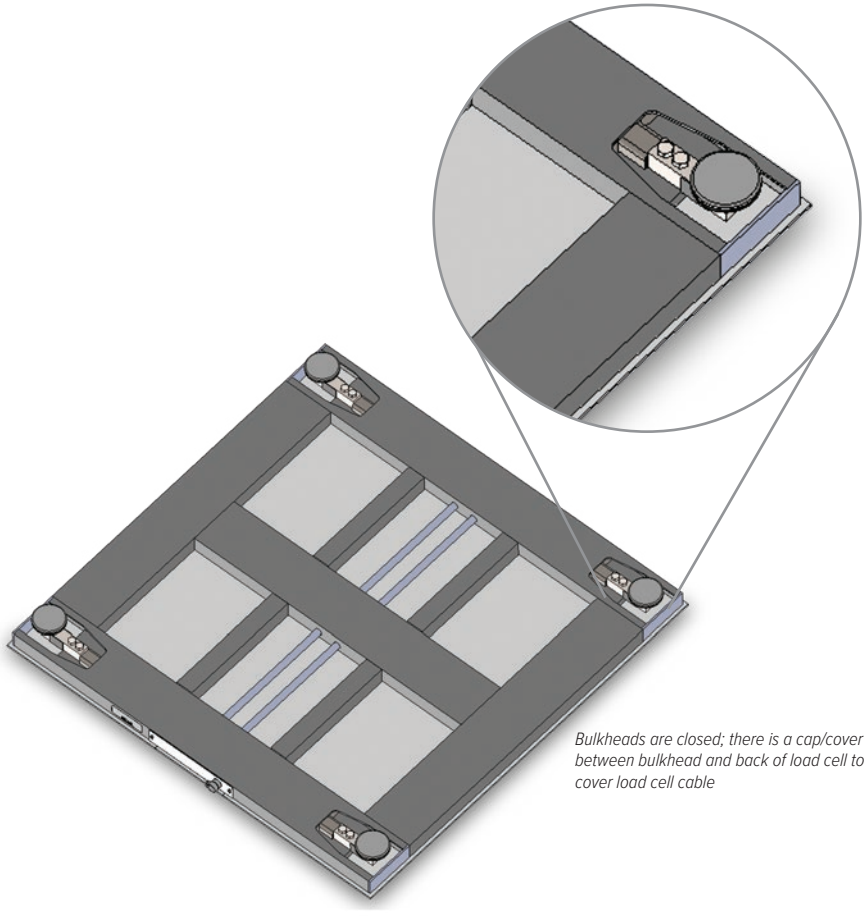
Approvals

Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
195834	4 ft × 4 ft × 3.5 in	5,000 lb	375 lb	$2,670.00
195835	4 ft × 4 ft × 3.5 in	10,000 lb	375 lb	$2,670.00
195836	5 ft × 5 ft × 3.5 in	5,000 lb	541 lb	$3,150.00
195837	5 ft × 5 ft × 3.5 in	10,000 lb	696 lb	$4,035.00

Options/Accessories

Part #	Description	Price
18777	Floor anchor plates, mild steel (set of 2)	$40.00



Bulkheads are closed; there is a cap/cover between bulkhead and back of load cell to cover load cell cable

Standard Features

- Heavy-duty industrial design
- Structural steel channel frame
- Four NTEP Certified alloy steel, shear beam load cells
- 20 ft SURVIVOR® EL147RP rodent protection load cell cable with 1/2-inch conduit fitting (conduit for home run cable to be supplied by customer)
- Top-access junction box with additional top access cover for routing load cell cable into scale conduit
- Diamond safety tread plate deck
- Four adjustable stainless steel SUREFOOT™ support feet

Specifications

End Load Capacity:
100% full scale at 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator
Note: 1/2 in conduit fitting supplied, conduit for home run cable to be supplied by customer

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch

Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

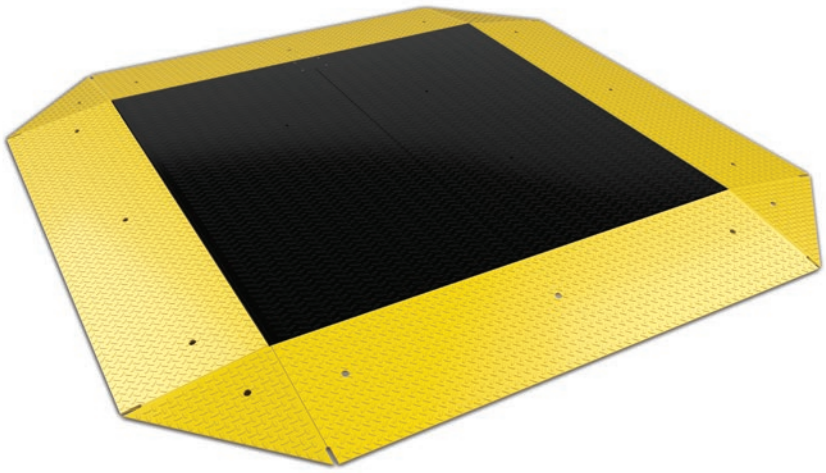
Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001, Class III 5,000d
Load Cell is NTEP
Load Cell is cFMus Approved

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RoughDeck® PC

Pancake Deck Cargo Scale



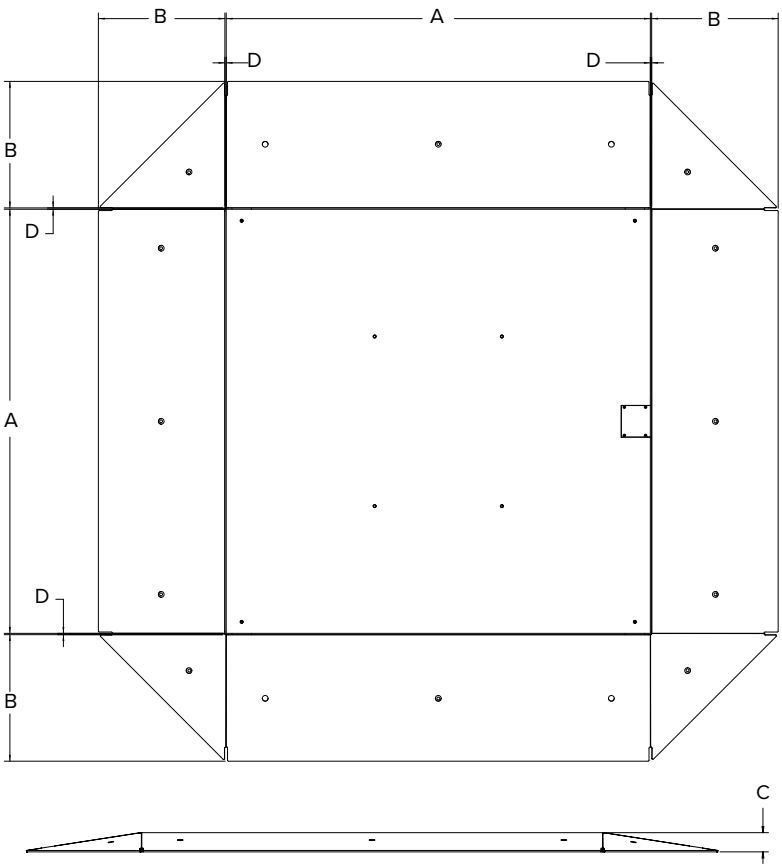
Part Number/Price

Part #	Overall Size (W × L × H)	Ramp Angle of Incline	Capacity	Est. Weight	Price
194338	Scale: 10 ft × 10 ft × 4 3/8 in Ramps: (4) 3 ft × 10 ft × 4 3/8 in Corners: (4) 3 ft × 4 ft 1 in × 4 3/8 in	6.5°	20,000 lb	6,800 lb	$28,135.00

Dimensions

RoughDeck PC			
A	120.00 in	C	4.37 in
B	35.80 in	D	0.38 in

Note: 1 in=25.4 mm



Standard Features

- Foot adjustment holes for leveling scale from above
- Four ball-encapsulated feet
- Four IP66, alloy steel 10,000 lb load cells
- Top-access junction box
- Epoxy paint for added protection. Ramps are painted yellow and scale is painted black to easily distinguish live weighing surface.
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable to connect scale to indicator. Cable can exit scale/ramp from any corner.
- Scale and wraparound ramps to access scale from all sides
- Ramps have integrated foot keeper plates to keep scale in check with ramps
- Holes in ramps to access internal anchor tabs from above. 16 anchor bolts at 3/4 in included.
- All surfaces diamond tread

Specifications

End Load Capacity:
100% full scale at 20,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch

Threaded Eyebolt:
Four holes (3/4-10 NC)

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

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RoughDeck® CS

Coil Floor Scale



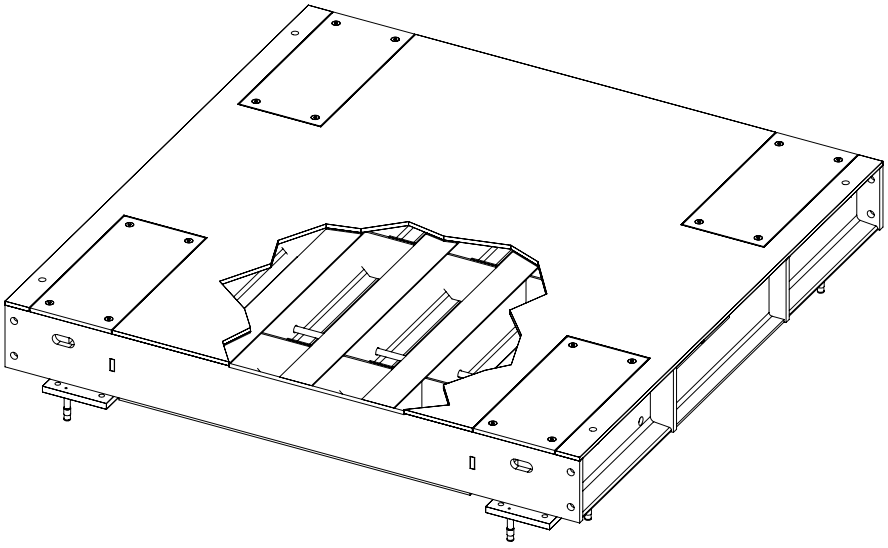
Approvals

Part Number/Price

Part #	Size (W ×LW × H)	Capacity	Est. Weight	Price
107493	5 ft × 5 ft × 11 in	40,000 lb (20,000 kg)	1,900 lb	$16,535.00
107494	5 ft × 5 ft × 11 in	60,000 lb (30,000 kg)	1,900 lb	$16,535.00
107495	5 ft × 5 ft × 11 in	80,000 lb (40,000 kg)	1,900 lb	$16,535.00
107496	6 ft × 6 ft × 11 in	40,000 lb (20,000 kg)	2,575 lb	$18,745.00
107497	6 ft × 6 ft × 11 in	60,000 lb (30,000 kg)	2,575 lb	$18,745.00
107498	6 ft × 6 ft × 11 in	80,000 lb (40,000 kg)	2,575 lb	$18,745.00

Options/Accessories

Part #	Description	Price
114678	V-Top coil cradle 24 degree (5 × 5 ft scale)	$6,500.00
114684	V-Top coil cradle 24 degree (6 × 6 ft scale)	$8,100.00
230366	V-top coil cradle 6 degree, (5 × 5 ft scale)	Consult
230367	V-top coil cradle 6 degree, (6 × 6 ft scale)	Consult
Consult	Pit coping	Consult



Standard Features

- Capacities: 40,000 to 80,000 lb; consult factory for custom capacities
- Deck thickness: 1/2 in smooth top plate
- MVS self-checking mounting system, top access to load cells
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable
- Ships unassembled with eight concrete anchor bolts

Specifications

Capacities:
Scale, load cell mount:
40,000 lb: Qty 4 50,000 lb each
60,000 lb: Qty 4 50,000 lb each
80,000 lb: Qty 4 75,000 lb each

Understructure Clearance:
1.91 in minimum

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

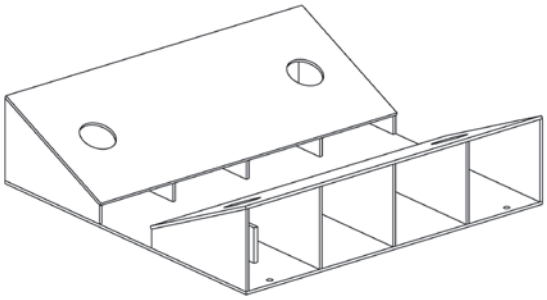
Approvals:
NTEP 11-068, Class III, 5,000 d
Load Cell is NTEP
Load Cell is cFMus Approved

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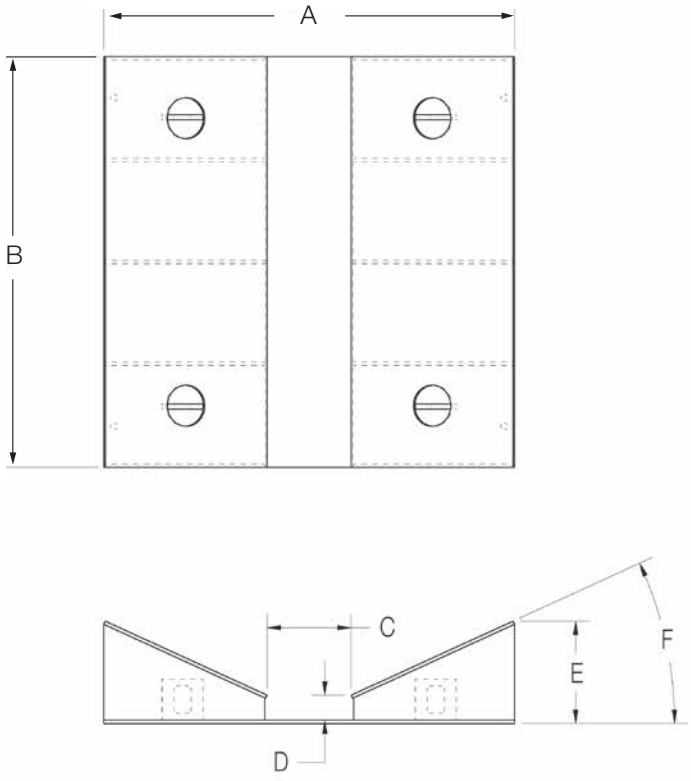
Dimensions

RoughDeck CS			
5 × 5 ft V-Top Coil Cradle (24 degree)			
A	60.00 in	D	3.64 in
B	60.00 in	E	14.95 in
C	12.30 in	F	25°
6 × 6 ft V-Top Coil Cradle			
A	72.00 in	D	3.99 in
B	72.00 in	E	14.96 in
C	22.62 in	F	24°

Note: 1 in=25.4 mm



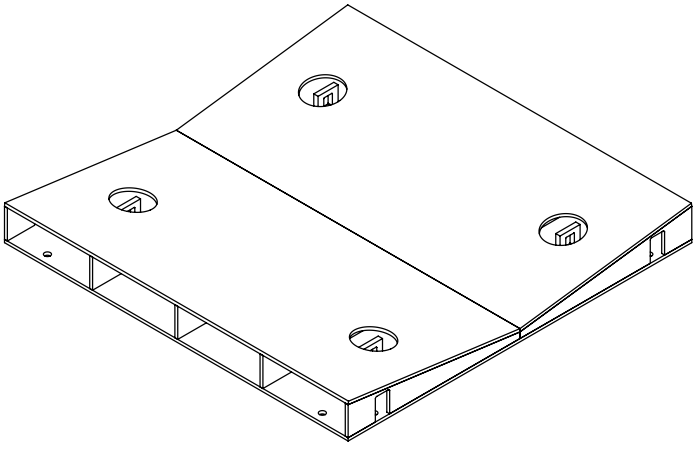
V-Top Coil Cradle



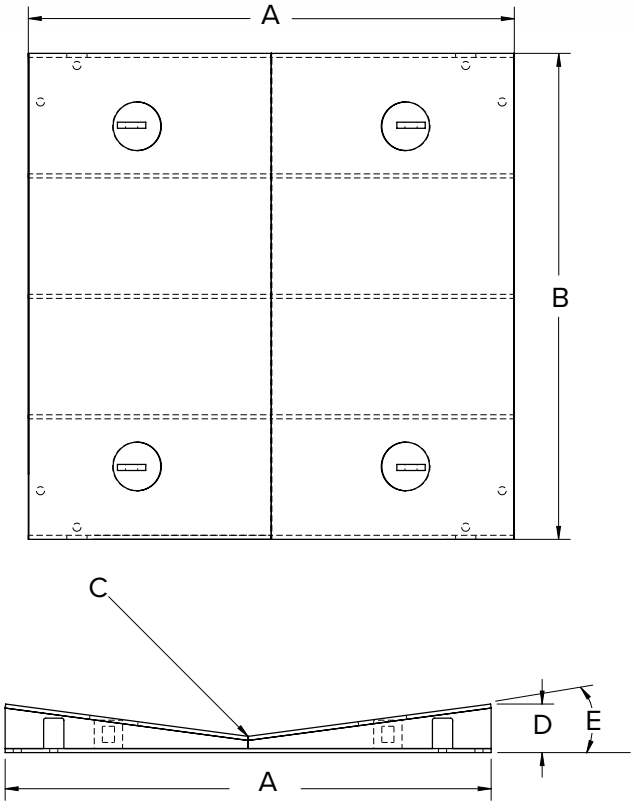
Dimensions

RoughDeck CS			
5 × 5 ft V-Top Coil Cradle (6 degree)			
A	60.00 in	D	6.00 in
B	60.00 in	E	6°

Note: 1 in=25.4 mm



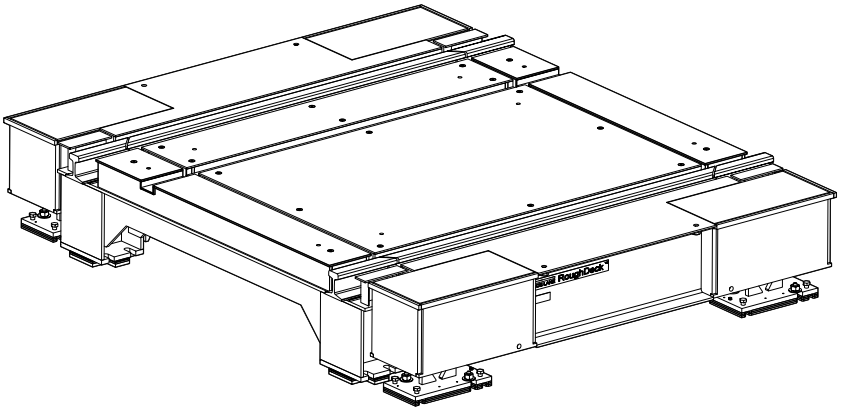
V-Top Coil Cradle



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RoughDeck® CS Rail Car

Top-access Coil Scale



Scale Capacity: _____

Rail Size: _____

Note: Rails to be welded on-site

New Installation or Existing? ☐ New ☐ Existing

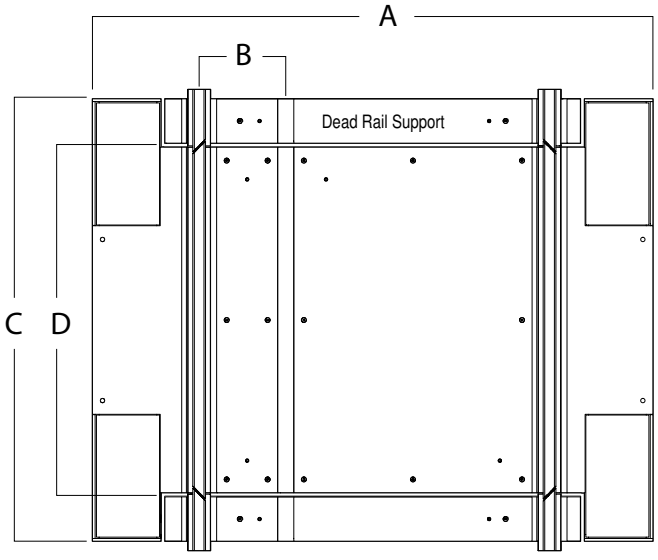
Size of Cart: _____

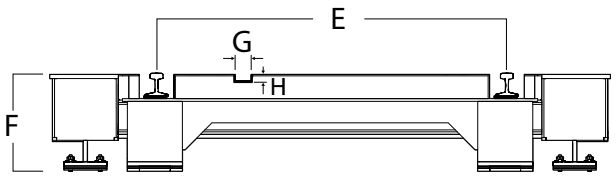
Size of Wheel Base: _____

Cable Through Required? ☐ Yes ☐ No

Grout or Shim Installation? ☐ Grout ☐ Shim

Scale Size	
A (Pit Width)	
B (Rail to Channel On Center)	
C (Pit Opening)	
D (Scale Length)	
E (Rail Width On Center)	
F (Pit Depth)	
G (Cable Channel Width)	
H (Cable Channel Depth)	

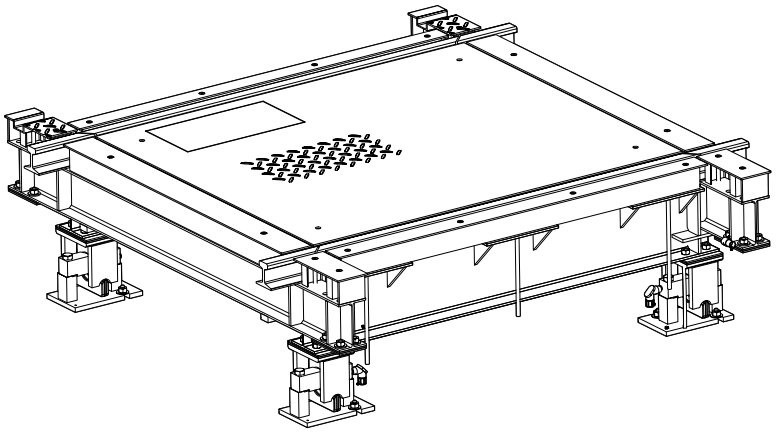




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RoughDeck® CS Rail Car

Under Beam Mount Coil Scale



Scale Capacity: _____

Rail Size: _____

Note: Rails to be welded onsite

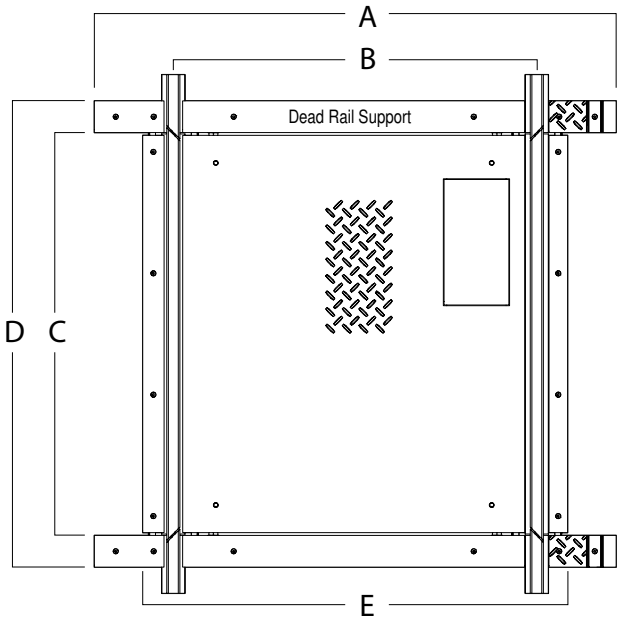
New Installation or Existing? ☐ New ☐ Existing

Size of Cart: _____

Size of Wheel Base: _____

Grout or Shim Installation? ☐ Grout ☐ Shim

Scale Size	
A (Dead Rail Beam)	
B (Rail Width On Center)	
C (Scale Length)	
D (Pit Opening)	
E (Scale Width)	
F (Pit Depth)	





RoughDeck® SS

Stainless Steel Floor Scale



Approvals

Measurement Canada Approved

Part Number/Price

NTEP Approved Part #	Measurement Canada Approved Part #	Size (W × L × H)	Capacity	Est. Weight	Price
232372†	**232379**	2 ft × 2 ft × 3.5 in	2,000 lb (1,000 kg)	173 lb	$3,300.00
18663†	**191958**†	2.5 ft × 2.5 ft × 3.5 in	2,000 lb (1,000 kg)	173 lb	$3,300.00
46239†	**191959**†	3 ft × 3 ft × 3.5 in	1,000 lb (500 kg)	232 lb	$3,810.00
18664†	**191960**†	3 ft × 3 ft × 3.5 in	2,000 lb (1,000 kg)	232 lb	$3,810.00
46241	**191961**	4 ft × 4 ft × 3.5 in	1,000 lb (500 kg)	375 lb	$5,460.00
18665	**191962**	4 ft × 4 ft × 3.5 in	5,000 lb (2,500 kg)	375 lb	$5,460.00
18666	**191964**	4 ft × 4 ft × 3.5 in	10,000 lb (5,000 kg)	490 lb	$7,920.00
18667	**191965**	4 ft × 5 ft x 3.5 in	5,000 lb (2,500 kg)	437 lb	$6,240.00
18668	**191966**	4 ft × 5 ft x 3.5 in	10,000 lb (5,000 kg)	567 lb	$8,835.00
18671	**191967**	5 ft × 5 ft × 3.5 in	5,000 lb (2,500 kg)	541 lb	$8,015.00
18672	**191968**	5 ft × 5 ft × 3.5 in	10,000 lb (5,000 kg)	696 lb	$10,305.00
18675	**191969**	5 ft × 7 ft × 3.5 in	5,000 lb (2,500 kg)	734 lb	$10,620.00
18676	**191970**	5 ft × 7 ft × 3.5 in	10,000 lb (5,000 kg)	929 lb	$13,590.00

† *Not recommended for use with pallet jacks*

Options/Accessories

Part #	Description	Price
Consult	Access ramps available	See catalog page 381
Consult	Pit frames available	See catalog page 384
Consult	Bumper guards available	See catalog page 387 through catalog page 389
Consult	Portability frames available	See catalog page 390 through catalog page 395
18778	Floor anchor plates, stainless steel (set of 2)	$55.00
Consult	Four drilled deck holes for scale height adjustment	$40.00
Consult	Top-access junction box	+$100.00 list price add-on
Consult	Stainless steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware	+$340.00 list price add-on
28740	Floor stand for indicator, 36.3 in high, stainless steel	$340.00
Consult	Stainless steel diamond treadplate safety deck	Consult
Consult	Forklift channel option up to 5 × 7 ft, 10,000 lb, accommodates fork tines no larger than (W × H) 5 × 2 in, fork entry is on opposite side of junction box location	+$1,700.00 list price add-on

Standard Features

- Rugged non-corrosive design
- 304 stainless steel construction
- Rigid stainless steel channel frame
- Four stainless steel, NTEP Certified, IP66 shear beam load cells
- 20 ft of SURVIVOR® EL147HE hostile environment load cell cable
- Side access junction box
- Smooth stainless steel deck
- Four adjustable stainless steel SUREFOOT™ support feet

Specifications

End Load Capacity:
200% full scale at 1,000 lb
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) (for connecting junction box to indicator)

Scale Weldment:
AISI304L, glass bead blasted for even appearance

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch, consult factory if continuous is required

Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001, Class III 5,000 d
Measurement Canada AM-4827, Class III 5,000 d
Load Cell is NTEP
Load Cell is cFMus Approved

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RoughDeck® HE

Hostile Environment Stainless Steel Floor Scale



Approvals

Measurement Canada Approved

Part Number/Price

NTEP Approved Part #	Measurement Canada Approved Part #	Size (W × L × H)	Capacity	Est. Weight	Price
232380†	**232381**	2 ft × 2 ft × 3.5 in	2,000 lb (1,000 kg)	173 lb	$3,640.00
18680†	**193293**	2.5 ft × 2.5 ft × 3.5 in	2,000 lb (1,000 kg)	173 lb	$3,640.00
18681†	**193294**	3 ft × 3 ft × 3.5 in	2,000 lb (1,000 kg)	232 lb	$4,150.00
18682	**193296**	4 ft × 4 ft × 3.5 in	5,000 lb (2,500 kg)	375 lb	$5,800.00
18683	**193297**	4 ft × 4 ft × 3.5 in	10,000 lb (5,000 kg)	490 lb	$8,260.00
18684	**193298**	4 ft × 5 ft × 3.5 in	5,000 lb (2,500 kg)	437 lb	$6,580.00
18685	**193307**	4 ft × 5 ft × 3.5 in	10,000 lb (5,000 kg)	567 lb	$9,175.00
18688	**193308**	5 ft × 5 ft × 3.5 in	5,000 lb (2,500 kg)	541 lb	$8,355.00
18689	**193309**	5 ft × 5 ft × 3.5 in	10,000 lb (5,000 kg)	696 lb	$10,645.00
18692	**193310**	5 ft × 7 ft × 3.5 in	5,000 lb (2,500 kg)	734 lb	$10,960.00
18693	**193311**	5 ft × 7 ft × 3.5 in	10,000 lb (5,000 kg)	929 lb	$13,930.00

†*Not recommended for use with pallet jacks*

Options/Accessories

Part #	Description	Price
Consult	Access ramps available	See catalog page 381
Consult	Pit frames available	See catalog page 384
Consult	Bumper guards available	See catalog page 387 through catalog page 389
Consult	Portability frames available	See catalog page 390 through catalog page 395
18778	Floor anchor plates, stainless steel (set of two)	$55.00
Consult	Four drilled deck holes for scale height adjustment	$40.00
28740	Floor stand for indicator, 36.3 in high, stainless steel	$340.00
Consult	Stainless steel diamond treadplate safety deck	Consult
Consult	Forklift channel option up to 5 × 7 ft, 10,000 lb, accommodates fork tines no larger than (W x H) 5 × 2 in, fork entry is on opposite side of junction box location	+$1,700.00 list price add-on

Standard Features

- Rugged washdown design
- 304 stainless steel construction
- Rigid 304 stainless steel channel frame
- Four stainless steel, hermetically sealed, IP69K shear beam load cells
- 20 ft of SURVIVOR® EL147HE hostile environment load cell cable
- Load cells protected on all four sides
- Smooth stainless steel deck
- Remote mounted junction box

Specifications

End Load Capacity:
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m)

Scale Weldment:
AISI304L, glass bead blasted for even appearance

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch, consult factory if continuous is required

Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001 Class III 5,000 d
Measurement Canada AM-4827 Class III 5,000 d
Load cell is NTEP
Load cell is cFMus Approved

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AutoLift HE

Pit-type, Hostile Environment Stainless Steel Lift Floor Scale



Approvals

Measurement Canada Approved

FM APPROVED

The pneumatic control box must be located in the safe area.

Part Number/Price

Part #	Size (W × L)	Capacity	Est. Weight	Price
42207	4 × 4 ft	2,000 lb (1,000 kg)	640 lb	$19,050.00
42208	4 × 4 ft	5,000 lb (2,500 kg)	640 lb	$19,050.00
42209	4 × 4 ft	10,000 lb (5,000 kg)	750 lb	$19,675.00
42211	5 × 5 ft	2,000 lb (1,000 kg)	830 lb	$24,230.00
42212	5 × 5 ft	5,000 lb (2,500 kg)	830 lb	$24,230.00
42213	5 × 5 ft	10,000 lb (5,000 kg)	1,050 lb	$24,630.00

Options/Accessories

Part #	Description	Price
Consult	Four drilled deck holes for scale height adjustment	$40.00
28740	Floor stand for indicator, 36.3 in high stainless steel	$340.00

Standard Features

- Includes scale, pit frame, pit coping and pneumatic control box
- Rugged washdown design
- 304 stainless steel construction
- Rigid 304 stainless steel channel frame
- Meets HACCP requirements
- Manual, drop-in-place, safety bar
- Four stainless steel, hermetically sealed, IP69K shear beam load cells
- Load cells protected on all four sides
- 20 ft of SURVIVOR® hostile environment load cell cable
- Smooth stainless steel deck
- Four adjustable stainless steel SUREFOOT™ support feet
- Requires 85 to 100 psi air pressure, opens 43 degrees
- Air lines and pneumatic regulator included; conduit for load cell cable from junction box to indicator is not included

Specifications

End Load Capacity:
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m)

Scale Weldment:
AISI304L, glass bead blasted for even appearance

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

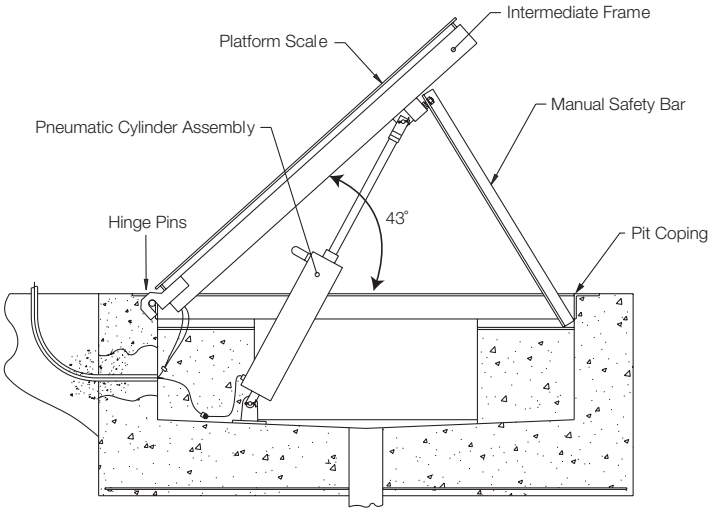
Welding:
Stitch, consult factory if continuous is required

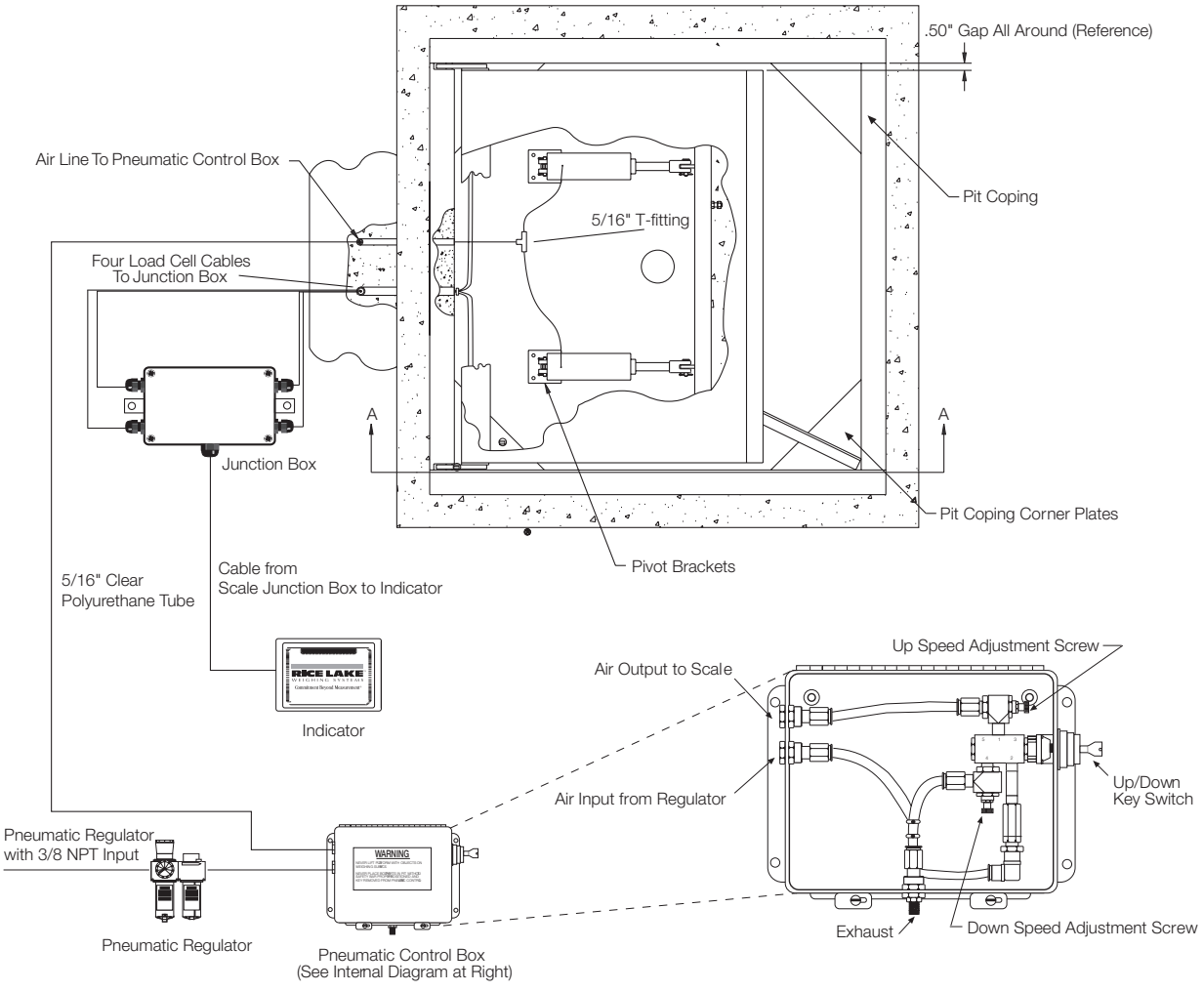
Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001
Measurement Canada
FM Approved

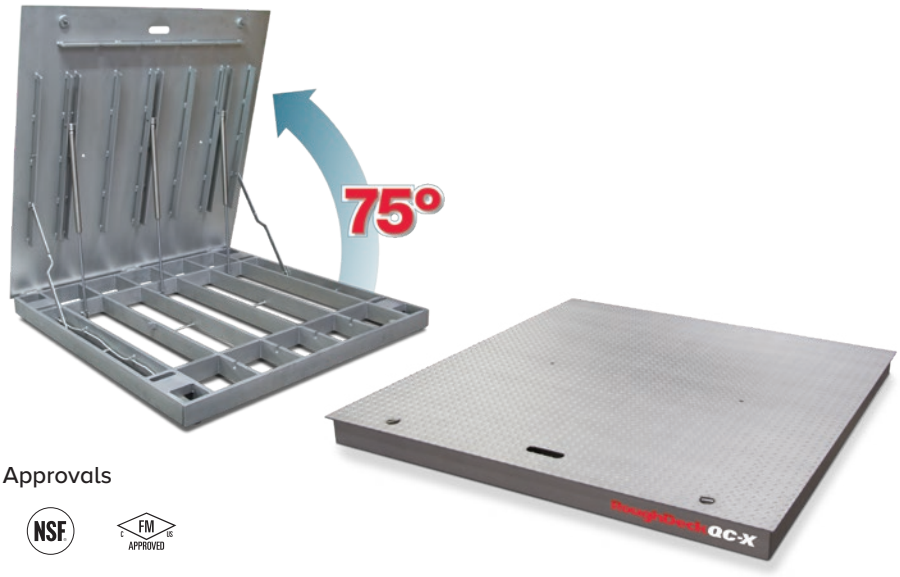
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Intermediate Frame
Platform Scale
Manual Safety Bar
Pneumatic Cylinder Assembly
43°
Hinge Pins
Pit Coping


.50" Gap All Around (Reference)
Air Line To Pneumatic Control Box
Pit Coping
5/16" T-fitting
Four Load Cell Cables
To Junction Box
A
A
Junction Box
Pit Coping Corner Plates
Pivot Brackets
5/16" Clear
Polyurethane Tube
Cable from
Scale Junction Box to Indicator
Indicator
Up Speed Adjustment Screw
Air Output to Scale
Up/Down
Key Switch
Air Input from Regulator
Pneumatic Regulator
with 3/8 NPT Input
WARNING
Exhaust
Down Speed Adjustment Screw
Pneumatic Regulator
Pneumatic Control Box
(See Internal Diagram at Right)

RoughDeck® QC-X

Quick Clean Extreme Lift Floor Scale with Solid Plate Base



Approvals

NSF FM APPROVED

Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
Smooth Top Plate				
175686	4 ft × 4 ft × 4.625 in	5,000 lb (2,500 kg)	650 lb	$13,540.00
175689	4 ft × 4 ft × 4.625 in	10,000 lb (5,000 kg)	650 lb	$13,540.00
175694	5 ft × 5 ft × 4.625 in	5,000 lb (2,500 kg)	950 lb	$18,685.00
175695	5 ft × 5 ft × 4.625 in	10,000 lb (5,000 kg)	950 lb	$18,685.00
Diamond Tread Top Plate				
175688	4 ft × 4 ft × 4.625 in	5,000 lb (2,500 kg)	650 lb	$14,420.00
175690	4 ft × 4 ft × 4.625 in	10,000 lb (5,000 kg)	650 lb	$14,420.00
175696	5 ft × 5 ft × 4.625 in	5,000 lb (2,500 kg)	950 lb	$20,060.00
175697	5 ft × 5 ft × 4.625 in	10,000 lb (5,000 kg)	950 lb	$20,060.00

Options/Accessories

Part #	Description		Price
28740	Floor stand for indicator, 36.3 in high, stainless steel		$340.00
18778	Floor anchor plates, stainless steel (set of two)		$55.00
Pit Frames (L × W)			
175691	4 × 4 ft		$2,680.00
175698	5 × 5 ft		$2,900.00
Ramps (Diamond Treadplate Standard)		**Ramp Angle of Incline**	
175692	4 ft × 3 ft × 4.625 in, fits hinge/handhole side	7.0°	$4,615.00
175693	4 ft × 4 ft × 4.625 in, fits hinge/handhole side	5.2°	$5,290.00
175699	5 ft × 3 ft × 4.625 in, fits hinge/handhole side	7.0°	$5,290.00
175700	5 ft × 4 ft × 4.625 in, fits hinge/handhole side	5.2°	$5,865.00
178840	4 ft × 3 ft × 4.625 in, fits side of scale	7.0°	$4,615.00
178849	4 ft × 4 ft × 4.625 in, fits side of scale	5.2°	$5,290.00
178850	5 ft × 3 ft × 4.625 in, fits side of scale	7.0°	$5,290.00
178851	5 ft × 4 ft × 4.625 in, fits side of scale	5.2°	$5,865.00

Standard Features

- Rugged washdown design, rigid 304 stainless steel frame constructed with continuous welds
- Meets HACCP requirements
- Manual drop-in-place safety bars
- Four stainless steel, hermetically sealed, IP69K shear beam load cells with 30 ft cables
- 20 ft of SURVIVOR® EL147HE hostile environment cable for connecting junction box to indicator
- Remote junction box can be mounted up to 15 ft away
- 1/4 in top plate
- Four adjustable stainless steel SUREFOOT™ support feet
- Top plate opens 75 degrees
- Tool-less top plate lock downs
- Top plate available with a smooth deck or diamond treadplate
- Two 1/2-20 NF threaded eyebolt holes for lifting scale into pit frame

Specifications

End Load Capacity:
100% full scale at 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Scale Weldment:
AISI304L, glass bead blasted for even appearance

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

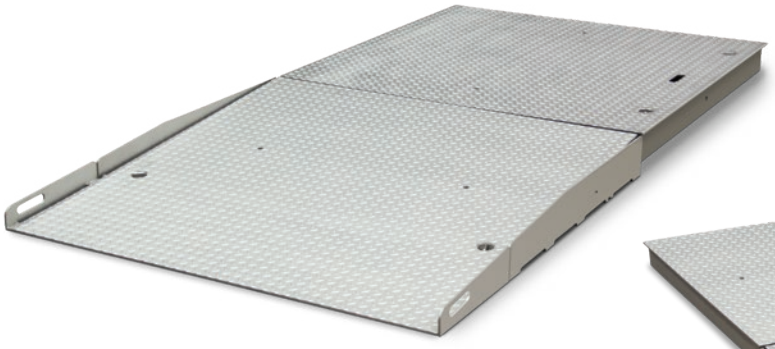
Welding:
Continuous

Threaded Eyebolt:
Two 1/2-20 NF threaded eyebolt holes for lifting scale into pit frame

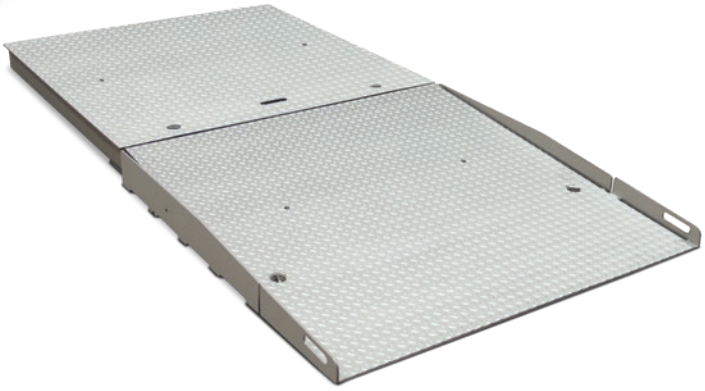
Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NSF
cFMus

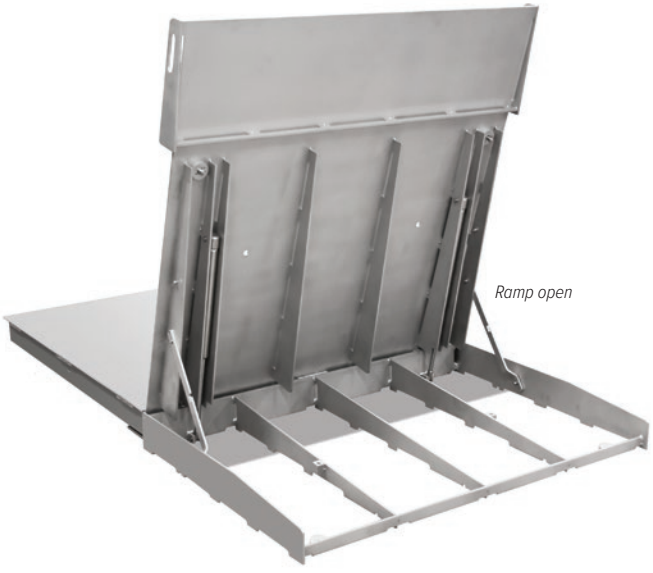
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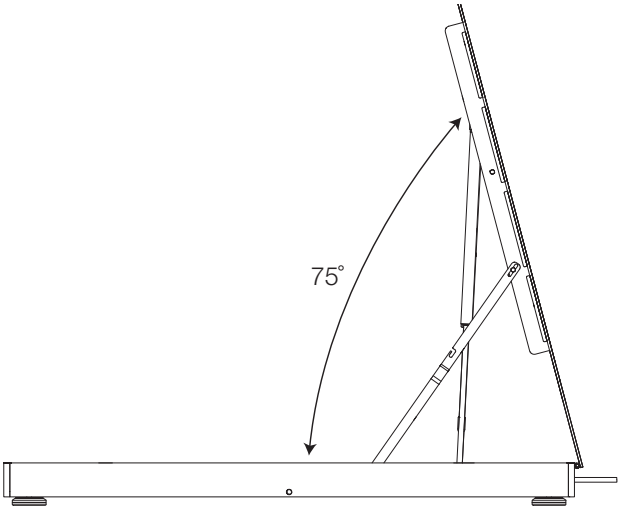
Ramp fits side of scale



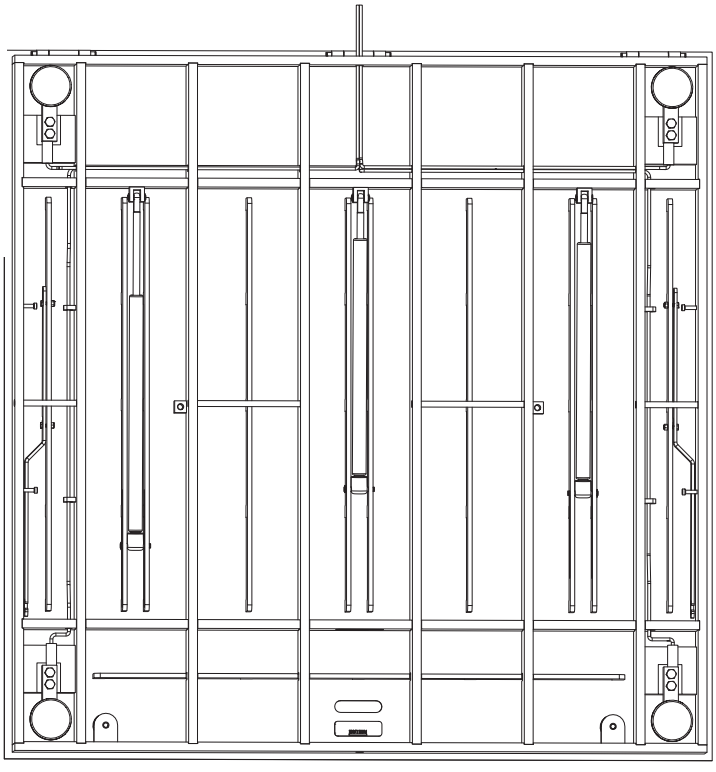
Ramp fits hinge/handhole side



Ramp open



Upright position



Underdeck View

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RoughDeck® QC-XP

Quick Clean Extreme Portable Solid Base Plate Floor Scale



Approvals

Part Number/Price

Part #	Size (W × L × H)	Capacity	Price
Smooth Top Plate			
193283	4 ft × 4 ft × 7 in	5,000 lb (2,500 kg)	$16,540.00
193284	4 ft × 4 ft × 7 in	10,000 lb (5,000 kg)	$16,540.00
Diamond Tread Top Plate			
193287	4 ft × 4 ft × 7 in	5,000 lb (2,500 kg)	$17,420.00
193288	4 ft × 4 ft × 7 in	10,000 lb (5,000 kg)	$17,420.00

Options/Accessories

Part #	Description	Price
28740	Floor stand for indicator, 36.3 in high, stainless steel	$340.00
18778	Floor anchor plates, stainless steel (set of two)	$55.00

Standard Features

- Designed with forklift pockets for portability
- Rugged washdown design, rigid 304 stainless steel frame constructed with continuous welds
- Meets HACCP requirements
- Manual drop-in-place safety bars
- Four stainless steel, hermetically sealed, IP69K shear beam load cells with 30 ft cables
- 20 ft of SURVIVOR® EL147HE hostile environment cable for connecting junction box to indicator
- Internally mounted junction box
- 1/4 in top plate
- Four adjustable stainless steel SUREFOOT™ support feet
- Top plate opens 75 degrees
- Tool-less top plate lock downs
- Top plate available with a smooth deck or diamond treadplate
- Two 1/2-20 NF threaded eyebolt holes for lifting scale into pit frame

Specifications

End Load Capacity:
100% full scale at 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Scale Weldment:
AISI304L, glass bead blasted for even appearance

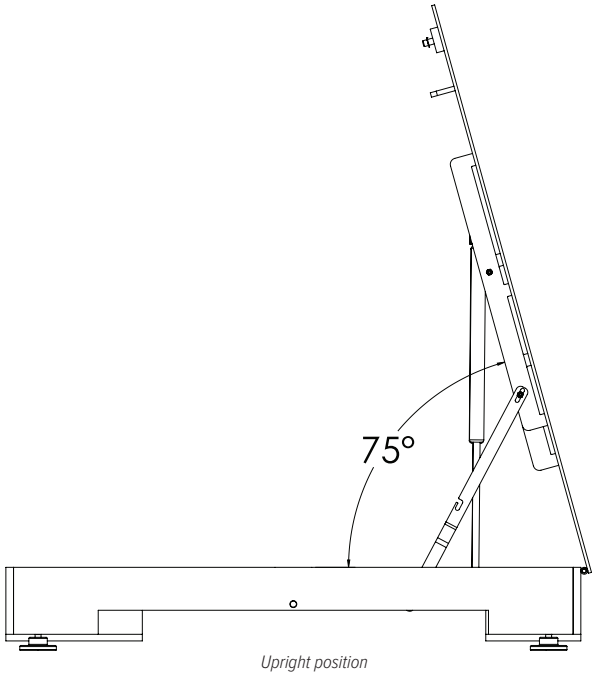
Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Continuous

Threaded Eyebolt:
Two 1/2-20 NF threaded eyebolt holes for lifting scale into pit frame

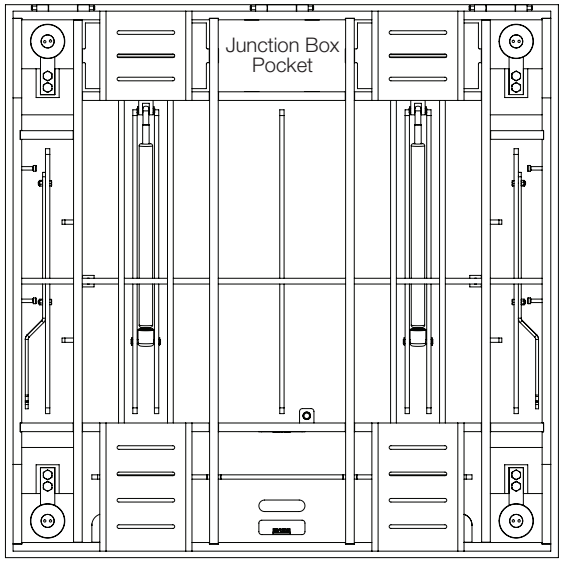
Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NSF
cFMus



Upright position

Forklift pocket dimensions are 2.25 in tall x 7.50 in wide



Underdeck View

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RoughDeck® QC

Quick Clean Stainless Steel Lift Floor Scale



Standard Features

- Rugged washdown design
- Smooth, 304 stainless steel top deck
- Rigid 304 stainless steel tube frame
- Meets HACCP requirements
- Manual drop-in-place safety bar
- Four stainless steel, hermetically sealed, IP69K shear beam load cells
- 20 ft of SURVIVOR® EL147HE hostile environment load cell cable
- Remote junction box can be mounted up to 10 ft away from the scale
- 3/16 in thick smooth top plate
- 4 adjustable stainless steel SUREFOOT™ support feet

Specifications

End Load Capacity:
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Scale Weldment:
AISI304L, glass bead blasted for even appearance

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch, consult if continuous is required

Threaded Eyebolt Hole:
1/2-20 NF located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001, Class III 5,000 d
Load cell is NTEP
Load cell is cFMus Approved

Approvals

Standard RoughDeck QC is not designed for fork truck traffic or point loading. Please consult factory for pricing on RoughDeck QC special if your application involves either.

Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
50402	2.5 ft × 2.5 ft × 3.5 in	2,000 lb (1,000 kg)	158 lb	$7,290.00
50403	3 ft × 3 ft × 3.5 in	2,000 lb (1,000 kg)	208 lb	$7,810.00
50404	4 ft × 4 ft × 3.5 in	2,000 lb (1,000 kg)	338 lb	$8,565.00
50405	4 ft × 4 ft × 3.5 in	5,000 lb (2,500 kg)	338 lb	$8,565.00
50406	4 ft × 4 ft × 4.5 in	10,000 lb (5,000 kg)	447 lb	$9,425.00
50407	4 ft × 5 ft × 3.5 in	2,000 lb (1,000 kg)	406 lb	$10,250.00
50408	4 ft × 5 ft × 4.5 in	5,000 lb (2,500 kg)	406 lb	$10,250.00
50409	4 ft × 5 ft × 4.5 in	10,000 lb (5,000 kg)	540 lb	$13,115.00
50410	4 ft × 6 ft × 4.5 in	2,000 lb (1,000 kg)	477 lb	$13,115.00
50411	4 ft × 6 ft × 4.5 in	5,000 lb (2,500 kg)	477 lb	$13,115.00
50412	4 ft × 6 ft × 5.5 in	10,000 lb (5,000 kg)	637 lb	$14,760.00
50413	5 ft × 5 ft × 4.5 in	2,000 lb (1,000 kg)	478 lb	$13,895.00
50414	5 ft × 5 ft × 4.5 in	5,000 lb (2,500 kg)	478 lb	$13,895.00
50415	5 ft × 5 ft × 4.5 in	10,000 lb (5,000 kg)	637 lb	$16,955.00
50416	5 ft × 7 ft × 5.5 in	2,000 lb (1,000 kg)	705 lb	$20,450.00
50417	5 ft × 7 ft × 5.5 in	5,000 lb (2,500 kg)	705 lb	$20,450.00
50418	5 ft × 7 ft × 5.5 in	10,000 lb (5,000 kg)	908 lb	$21,720.00

Options/Accessories

Part #	Description	Price
28740	Floor stand for indicator, 36.3 in high, stainless steel	$340.00
Consult	RoughDeck QC ramps available	See catalog page 362
Consult	RoughDeck QC pit frames available	See catalog page 362
Consult	Stainless steel diamond treadplate safety deck	Consult
18778	Floor anchor plates, stainless steel (set of two)	$55.00

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RoughDeck® QC

Access Ramps and Pit Frames

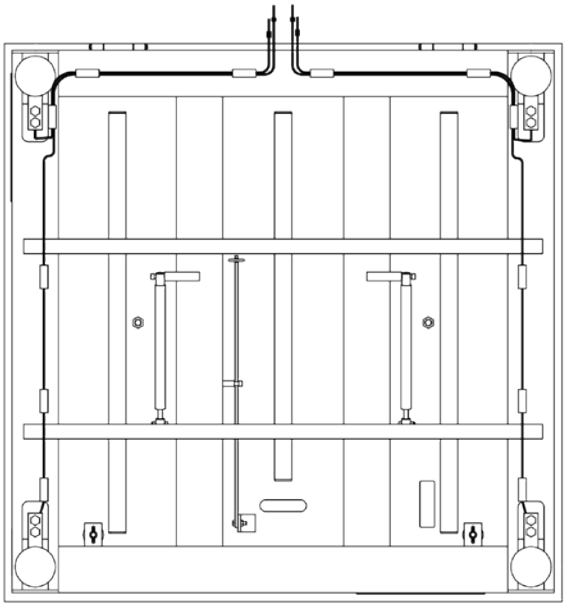
Part Number/Price

Part #	Size (W × L × H)	Ramp Angle of Incline	Est. Weight	Price
Access Ramps (Diamond Treadplate Standard) (W x L x H)				
69193	2.5 ft × 4.0 ft × 3.5 in (works with PN 50402)	4.0°	152 lb	$1,770.00
69194	3.0 ft × 4.0 ft × 3.5 in (works with PN 50403)	4.0°	177 lb	$1,770.00
69195	4.0 ft × 4.0 ft × 3.5 in (works with PN 50404, 50405 and 50407)	4.0°	224 lb	$2,460.00
69217	4.0 ft × 4.0 ft × 4.5 in (works with PN 50406, 50408, 50410 and 50411)	5.2°	234 lb	$2,485.00
69218	4.0 ft × 4.0 ft × 4.5 in (works with PN 50409)	5.2°	234 lb	$2,485.00
69222	4.0 ft × 5.0 ft × 5.5 in (works with PN 50412)	5.1°	330 lb	$3,210.00
69219	5.0 ft × 4.0 ft × 4.5 in (works with PN 50413 and 50414)	5.2°	272 lb	$3,025.00
69220	5.0 ft × 4.0 ft × 4.5 in (works with PN 50415)	5.2°	272 lb	$3,025.00
69223	5.0 ft × 5.0 ft × 5.5 in (works with PN 50416, 50417 and 50418)	5.1°	380 lb	$3,965.00
Pit Frames (W × L × H)				
64768	2.5 ft × 2.5 ft × 4 in (works with PN 50402)	-	89 lb	$1,375.00
64769	3.0 ft × 3.0 ft × 4 in (works with PN 50403)	-	102 lb	$1,375.00
64770	4.0 ft × 4.0 ft × 4 in (works with PN 50404 and 50405)	-	127 lb	$1,775.00
64771	4.0 ft × 4.0 ft × 5 in (works with PN 50406)	-	158 lb	$2,040.00
64772	4.0 ft × 5.0 ft × 4 in (works with PN 50407)	-	140 lb	$2,040.00
64773	4.0 ft × 5.0 ft × 5 in (works with PN 50408)	-	175 lb	$2,270.00
64774	4.0 ft × 5.0 ft × 5 in (works with PN 50409)	-	175 lb	$2,270.00
64775	4.0 ft × 6.0 ft × 5 in (works with PN 50410 and 50411)	-	191 lb	$2,485.00
64776	4.0 ft × 6.0 ft × 6 in (works with PN 50412)	-	225 lb	$2,615.00
64777	5.0 ft × 5.0 ft × 5 in (works with PN 50413 and 50414)	-	191 lb	$2,485.00
64778	5.0 ft × 5.0 ft × 5 in (works with PN 50415)	-	191 lb	$2,485.00
64779	5.0 ft × 7.0 ft × 6 in (works with PN 50416, 50417 and 50418)	-	270 lb	$2,930.00

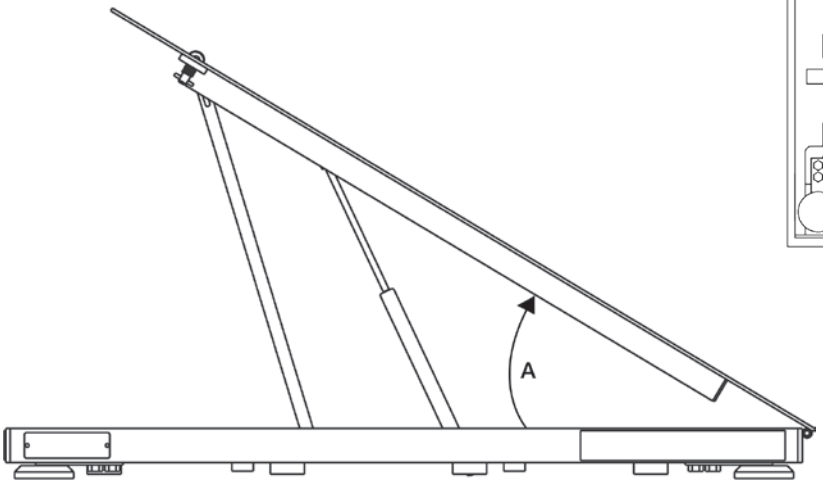
Part numbered ramps are designed to fit scale sides A or C; if you need a ramp to fit scale side B or D, please request a quote for a special ramp

Dimensions

Scale Size	A
2.5 × 2.5 ft	37°
3 × 3 ft	30°
4 × 4 ft	30°
4 × 5 ft	30°
4 × 6 ft	26°
5 × 5 ft	25°
5 × 7 ft	24°

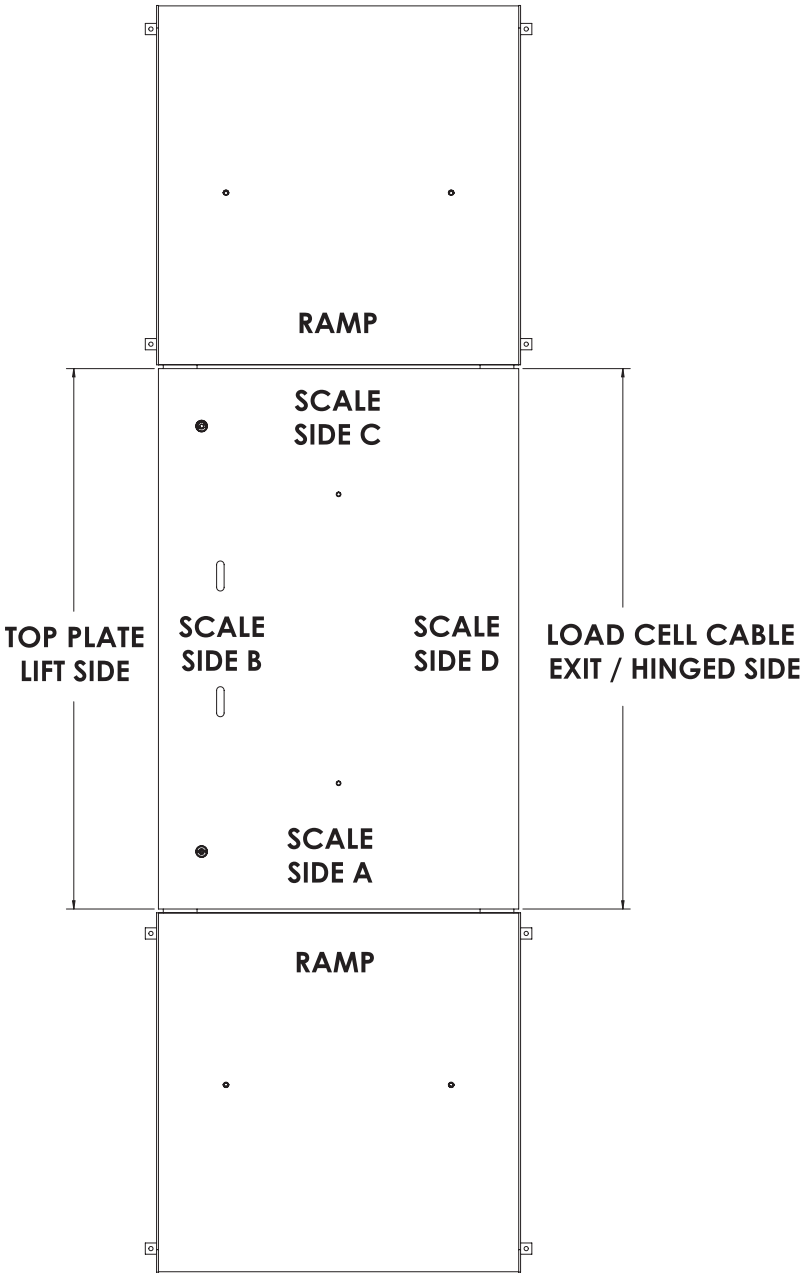


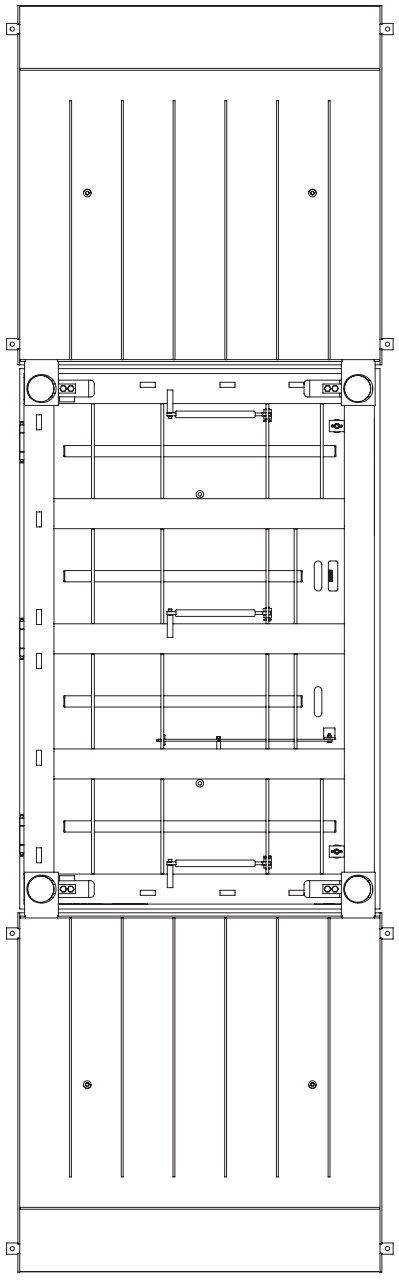
Underdeck View



(Upright position)

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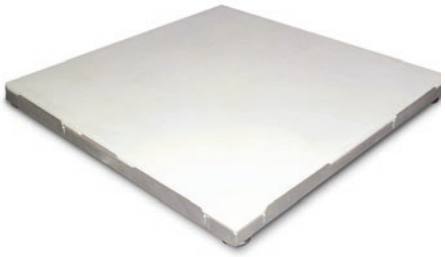




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RoughDeck® SD

Sanitary Deck Floor Scale





Standard Features

- Rugged washdown design
- 304 stainless steel construction
- Rigid stainless steel tube frame
- Four stainless steel, hermetically sealed, IP69K shear beam load cells
- Load cells protected on all four sides
- 20 ft (6 m) of SURVIVOR® EL147HE hostile environment load cell cable
- Remote junction box can be located up to 10 ft away from scale
- Four adjustable stainless steel SUREFOOT™ support feet
- Removable polyethylene deck (deck weight: 80 lb (36.6 kg) on 4 × 4 ft size)
- Side brackets to hold deck during washdown

Specifications

End Load Capacity:
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Scale Weldment:
AISI304L, glass bead blasted for even appearance

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Continuous

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 92-001, Class III 5,000 d

Approvals

Important NOTE: Applications where oily substances may be spilled could cause the deck to become slippery—caution should be used.

Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
50385	2.5 ft × 2.5 ft × 4.4 in	2,000 lb	158 lb	$4,865.00
50386	3 ft × 3 ft × 4.4 in	2,000 lb	208 lb	$5,000.00
50387	4 ft × 4 ft × 4.4 in	2,000 lb	338 lb	$5,245.00
50388	4 ft × 4 ft × 4.4 in	5,000 lb	338 lb	$5,245.00
50389	4 ft × 4 ft × 5.4 in	10,000 lb	447 lb	$5,510.00
50390	4 ft × 5 ft × 4.4 in	2,000 lb	406 lb	$5,760.00
50391	4 ft × 5 ft × 5.4 in	5,000 lb	406 lb	$5,760.00
50392	4 ft × 5 ft × 5.4 in	10,000 lb	540 lb	$6,015.00
50393	4 ft × 6 ft × 5.4 in	2,000 lb	477 lb	$6,280.00
50394	4 ft × 6 ft × 5.4 in	5,000 lb	477 lb	$6,280.00
50395	4 ft × 6 ft × 6.4 in	10,000 lb	637 lb	$6,910.00
50396*	5 ft × 5 ft × 5.4 in	2,000 lb	478 lb	$6,280.00
50397*	5 ft × 5 ft × 5.4 in	5,000 lb	478 lb	$6,280.00
50398*	5 ft × 5 ft × 5.4 in	10,000 lb	637 lb	$6,910.00
50399*	5 ft × 7 ft × 6.4 in	2,000 lb	705 lb	$8,695.00
50400*	5 ft × 7 ft × 6.4 in	5,000 lb	705 lb	$8,695.00
50401*	5 ft × 7 ft × 6.4 in	10,000 lb	908 lb	$9,840.00

** Constructed of two pieces of polyethylene to make up the top deck.*

Options/Accessories

Part #	Description	Price
28740	Floor stand for indicator, 36.3 in high, stainless steel	$340.00
18778	Floor anchor plates, stainless steel (set of 2)	$55.00

Consult factory for these additional options:

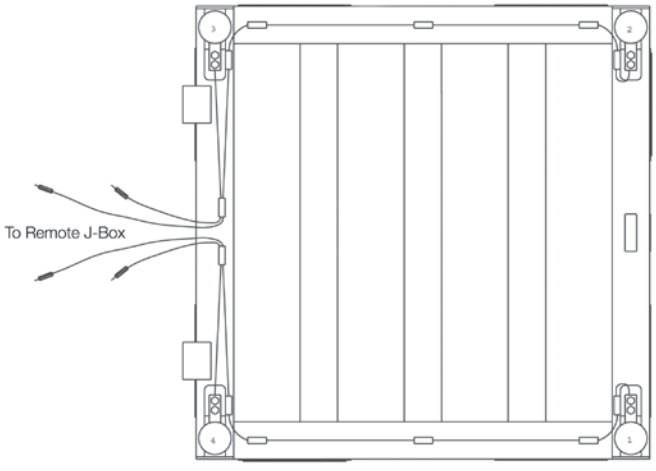
- *Access ramps*
- *Pit frames*

Side View



Bracket to hold polyethylene top deck when cleaning under scale

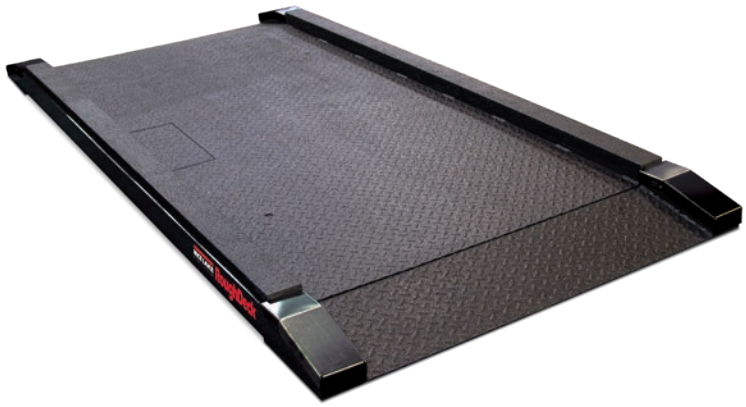
Underdeck View



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RoughDeck® LP

Low-profile Floor Scale



Standard Features

- Painted mild steel
- Diamond tread scale top plate and ramps
- Live side rails
- Self-centering ball and load receiver plate load introduction
- Top-access junction box
- Four alloy steel, environmentally sealed, single-ended load cells

Specifications

End Load Capacity:
100% full scale at 2,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Junction Box:
EL204 signal trim

Welding:
Stitch, consult factory if continuous is required

Threaded Eyebolt:
Two holes (1/2-20 NF)

Weighing Surface Dimensions:
(L × W × H)
72.00 × 36.00 × 1.81 in

Warranty:
Two-year limited

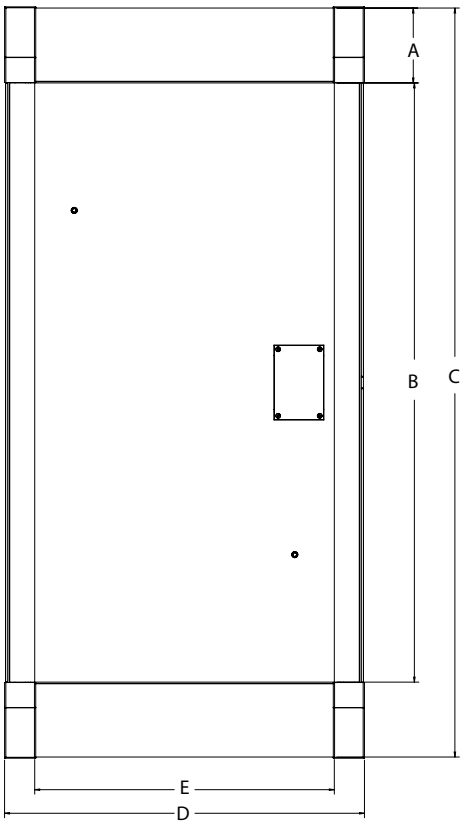
Part Number/Price

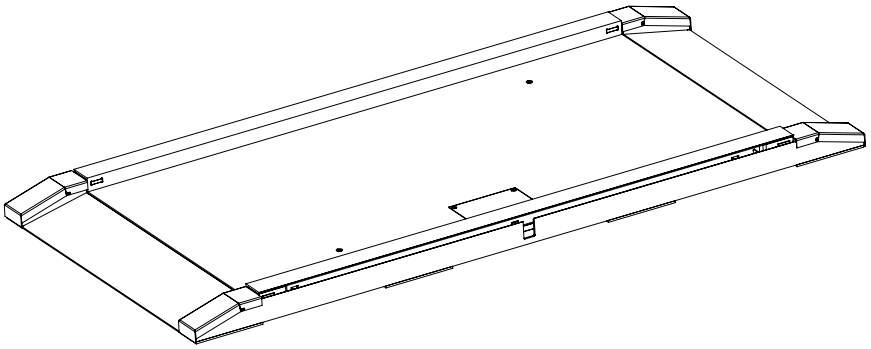
Part #	Size (W × L) Not including Side Rails	Capacity	Ramp Angle of Incline	Est. Weight	Price
204615	36 × 72 in	2,000 × 0.5 lb	12°	565 lb	$4,615.00

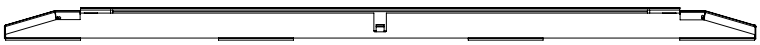
Dimensions

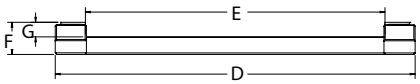
RoughDeck LP			
A	9.00 in	E	36.00 in
B	72.00 in	F	3.90 in
C	90.25 in	G	1.75 in
D	43.25 in		

Note: 1 in=25.4 mm









RoughDeck® PW-1 Mild Steel

Low-profile Pallet Weighing Floor Scale



Approvals

FM APPROVED

Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
177904	48 × 48 × 3 in	2,500 lb	200 lb	$1,925.00
177905	48 × 60 × 3 in	2,500 lb	210 lb	$2,095.00
177906	60 × 60 × 3 in	2,500 lb	235 lb	$2,335.00
177907	48 × 48 × 3 in	5,000 lb	200 lb	$1,925.00
177908	48 × 60 × 3 in	5,000 lb	210 lb	$2,095.00
177909	60 × 60 × 3 in	5,000 lb	235 lb	$2,335.00

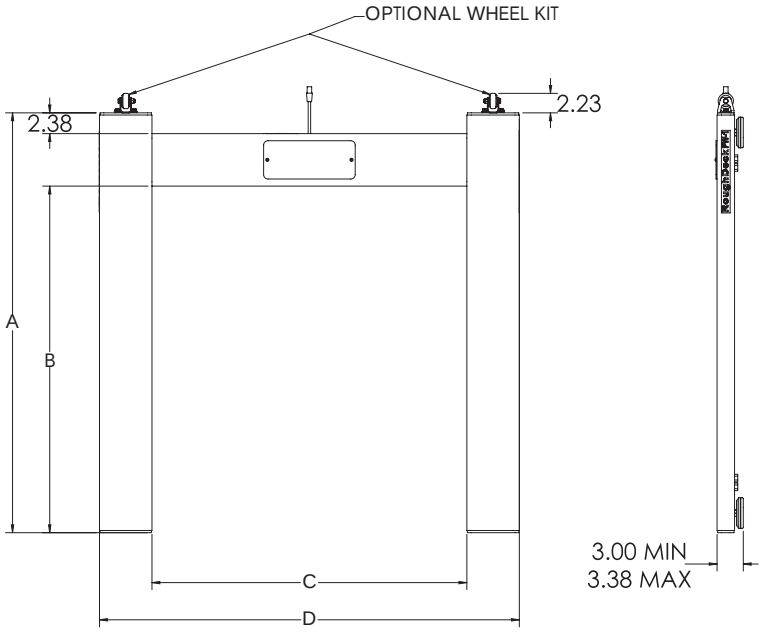
Options/Accessories

Part #	Description	Price
18777	Floor anchor plates, mild steel (set of 2)	$40.00
19352	Floor stand for indicator, 36.3 in high, mild steel	$250.00
126384	Floor stand for indicator, 48 in high, mild steel	$275.00
178250	Wheel kit option (wheels engage at a 28° angle)	$115.00
Consult	Mild steel deck with RL32018S IP66 stainless steel cFMus approved load cells and hardware	+$128.00 list price add-on
Consult	Mild steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware	+$468.00 list price add-on
Consult	Epoxy paint	+$150.00 list price add-on

Dimensions

PW-1 Mild Steel	
4 × 4 ft (160 lb)	
A	48.00 in
B	39.63 in
C	36.00 in
D	48.00 in
4 ×5 ft (170 lb)	
A	48.00 in
B	39.63 in
C	48.00 in
D	60.00 in
5 × 5 ft (195 lb)	
A	60.00 in
B	51.63 in
C	48.00 in
D	60.00 in

Note: 1 in=25.4 mm



Standard Features

- Low-profile design
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable
- Top-access junction box
- Four adjustable stainless steel SUREFOOT™ support feet
- Four alloy steel, shear beam load cells

Specifications

End Load Capacity:
80% full scale at 2,500 lb
100% full scale at 5,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

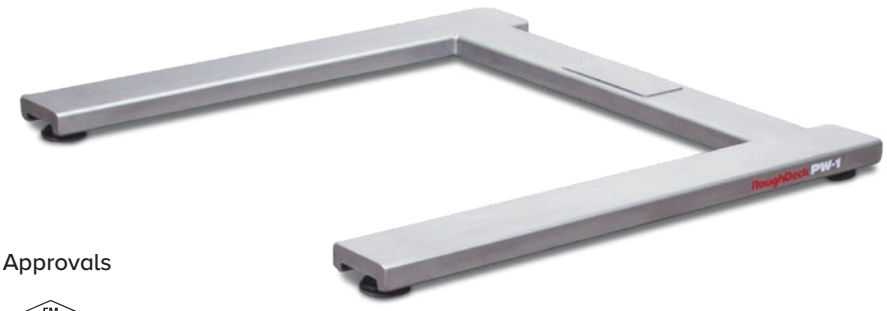
Welding:
Stitch, consult factory if continuous is required

Warranty (limited):
Load cells: Two years
All other components: One year

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RoughDeck® PW-1 Stainless Steel

Low-profile Pallet Weighing Floor Scale



Approvals

FM APPROVED

Standard Features

- Low-profile design
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable
- Top-access junction box
- Four adjustable, stainless steel SUREFOOT™ support feet
- Four stainless steel, IP66 shear beam load cells

Specifications

End Load Capacity:
80% full scale at 2,500 lb
100% full scale at 5,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Scale Weldment:
AISI304L, glass bead blasted for even appearance

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch, consult factory if continuous is required

Warranty (limited):
Load cells: Two years
All other components: One year

FLOOR SCALES

Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
177910	48 × 48 × 3 in	2,500 lb	200 lb	$4,055.00
177911	48 × 60 × 3 in	2,500 lb	210 lb	$4,285.00
177912	60 × 60 × 3 in	2,500 lb	235 lb	$4,515.00
177913	48 × 48 × 3 in	5,000 lb	200 lb	$4,055.00
177914	48 × 60 × 3 in	5,000 lb	210 lb	$4,285.00
177915	60 × 60 × 3 in	5,000 lb	235 lb	$4,515.00

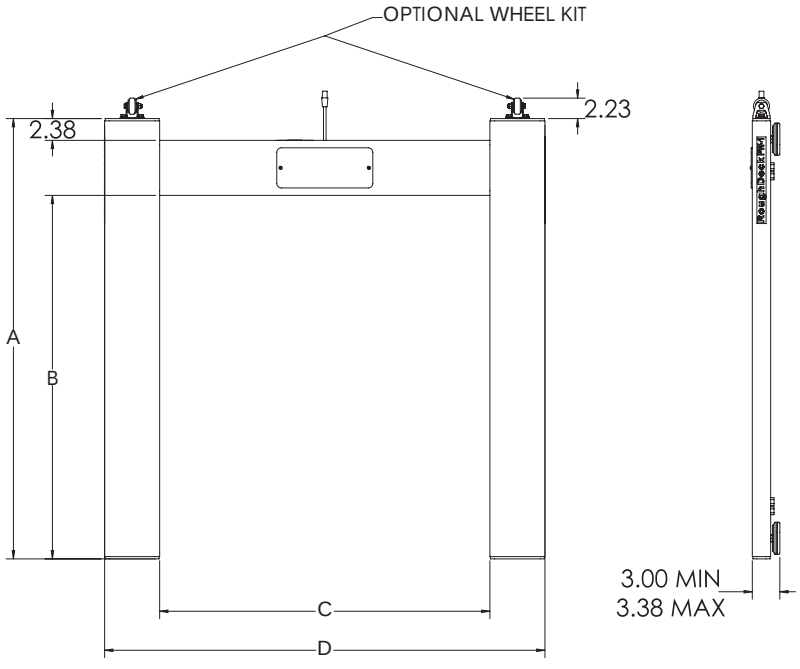
Options/Accessories

Part #	Description	Price
18778	Floor anchor plates, stainless steel (set of 2)	$55.00
28740	Floor stand for indicator, 36.3 in high, stainless steel	$340.00
178250	Wheel kit option (wheels engage at a 28° angle)	$115.00
Consult	Stainless steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware	+$340.00 list price add-on

Dimensions

PW-1 Stainless Steel	
4 × 4 ft (160 lb)	
A	48.00 in
B	39.63 in
C	36.00 in
D	48.00 in
4 × 5 ft (170 lb)	
A	48.00 in
B	39.63 in
C	48.00 in
D	60.00 in
5 × 5 ft (195 lb)	
A	60.00 in
B	51.63 in
C	48.00 in
D	60.00 in

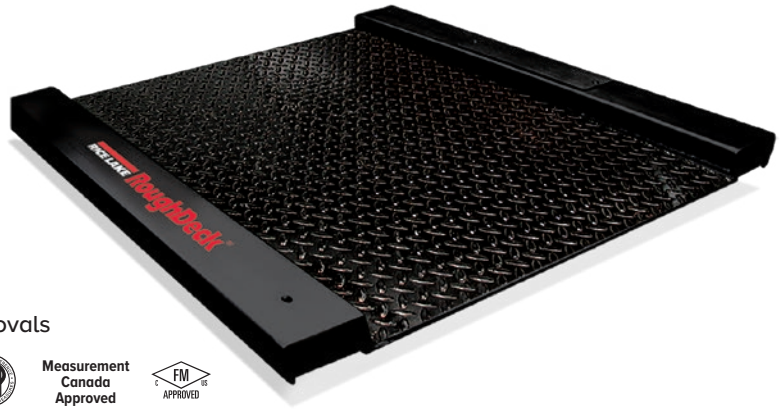
Note: 1 in=25.4 mm



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RoughDeck® BDP Mild Steel

Barrel, Drum, Pallet Scale – Stationary Model



Approvals

Measurement Canada Approved

Part Number/Price

Part #	Size (W × L) Not Including Side Rails	Capacity (Canadian Approved Capacities)	Est. Weight	Price
77962	30 × 31 in	1,000 lb (500 kg)	205 lb	$2,245.00
77963	30 × 31 in	2,500 lb (1,000 kg)	205 lb	$2,245.00
77964	36 × 37 in	1,000 lb (500 kg)	265 lb	$2,400.00
77965	36 × 37 in	2,500 lb (1,000 kg)	265 lb	$2,400.00
Part #	**Size (W × L)**	**Ramp Angle of Incline**	**Est. Weight**	**Price**
Access Ramps				
78011	30 × 12 in (sold individually)	7.2°	25 lb	$295.00
78012	36 × 12 in (sold individually)	7.2°	30 lb	$295.00

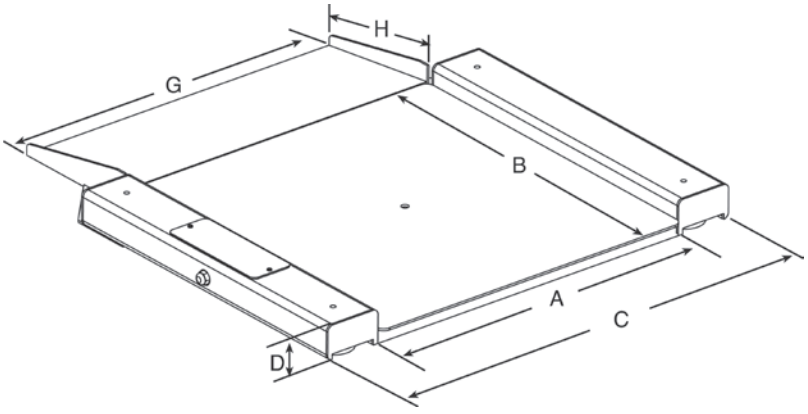
Options/Accessories

Part #	Description	Price
18777	Floor anchor plates, mild steel, set of 2 (for use with static scale, without ramps)	$40.00
19352	Floor stand for indicator, 36.3 in high, mild steel (for use with static scale)	$250.00
126384	Floor stand for indicator, 48 in high, mild steel	$275.00
Consult	Mild steel deck with RL32018S IP66 stainless steel (cFMus approved) load cells and hardware	+$128.00 list price add-on
Consult	Mild steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware	+$468.00 list price add-on
214612	Back stop and mounting hardware for 30 in wide scale	$195.00
214613	Back stop and mounting hardware for 36 in wide scale	$195.00

Dimensions

RoughDeck BDP mild steel with access ramp			
30 × 31 in models			
A	30.0 in	D	3.31 in
B	31.0 in	G	30.0 in
C	40.0 in	H	12.0 in
36 × 37 in models			
A	36.0 in	D	3.31 in
B	37.0 in	G	36.0 in
C	46.0 in	H	12.0 in

Distance from floor to top of center weighing surface: 1.625 in
Distance from floor to bottom of weighing surface: 0.31 in
Note: 1 in=25.4 mm



Standard Features

- Live side rails
- Top-access foot adjustment holes
- Four adjustable stainless steel SUREFOOT™ support feet
- Diamond tread top plate
- Alloy steel load cells

Specifications

End Load Capacity:
1,000 lb: 100% full scale
2,500 lb: 80% full scale

Cable Length:
10 ft (3 m)

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch

Threaded Eyebolt:
Hole (1/2-13 NC) located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 03-060, Class III 2,500 d
Measurement Canada AM-5578
(500 kg) Class III 2,500 d
(1,000 kg) Class III 2,000 d



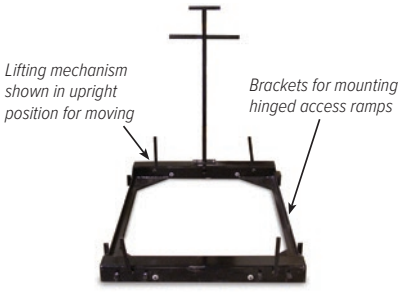
Shown with optional backstop

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RoughDeck® BDP Mild Steel

Barrel, Drum, Pallet Scale – Portable Model





Portability kit

Approvals

Measurement Canada Approved

Standard Features

- Live side rails
- Top-access foot adjustment holes
- Holes are 1/2-13 threaded for lifting scale
- Four adjustable stainless steel SUREFOOT™ support feet
- Treaded top plate
- Alloy steel load cells

Specifications

End Load Capacity:
1,000 lb: 100% full scale
2,500 lb: 80% full scale

Cable Length:
10 ft (3 m)

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch

Threaded Eyebolt:
Hole (1/2-13 NC) located in center of deck for easy lifting

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP 03-060, Class III 2,500 d
Measurement Canada AM-5578
(500 kg) Class III 2,500 d
(1,000 kg) Class III 2,000 d

Part Number/Price

Part #	Size (W × LW) Not Including Side Rails	Capacity (Canadian Approved Capacities)	Est. Weight	Price
77962	30 × 31 in	1,000 lb (500 kg)	205 lb	$2,245.00
77963	30 × 31 in	2,500 lb (1,000 kg)	205 lb	$2,245.00
77964	36 × 37 in	1,000 lb (500 kg)	265 lb	$2,400.00
77965	37 × 37 in	2,500 lb (1,000 kg)	265 lb	$2,400.00
Portability Kits				
Kits Include: Frame, two swivel and two fixed zinc plated steel NSF approved wheels (75 lb max. load capacity), indicator stand				
78021	For use with 30 × 31 in scale		90 lb	$1,170.00
78022	For use with 36 × 37 in scale		100 lb	$1,250.00
RoughDeck BDP Portability Kit with conductive wheels for use with 882IS				
199102	30 × 31 in		25 lb	$1,695.00
199103	36 × 37 in		30 lb	$1,775.00
Part #	**Size (W × L)**	**Ramp Angle of Incline**	**Es. Weight**	**Price**
Hinged Access Ramps: For use with portability kit				
78015	29.25 × 12 in (sold individually)	8.7°	25 lb	$295.00
78016	35.25 × 12 in (sold individually)	8.7°	30 lb	$295.00

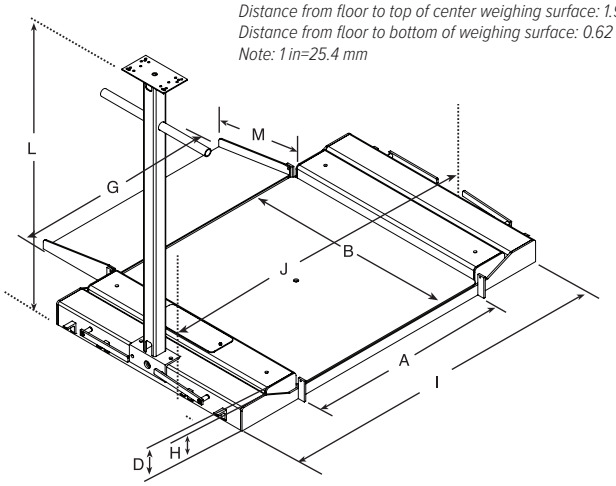
Options/Accessories

Part #	Description	Price
Consult	Mild steel deck with RL32018S IP66 stainless steel cFMus approved load cells and hardware	+$128.00 list price add-on
Consult	Mild steel deck with RL32218S-HE hermetically sealed IP69K stainless steel cFMus approved load cells and hardware	+$468.00 list price add-on
214612	Back stop and mounting hardware for 30 in wide scale	$195.00
214613	Back stop and mounting hardware for 36 in wide scale	$195.00

Dimensions

RoughDeck BDP mild steel with portability frame and hinged access ramps			
30 × 31 in models			
A	30.00 in	I	49.25 in
B	31.00 in	J	52.25 in
D	3.66 in	L	40.37 in
G	29.25 in	M	12.00 in
H	3.25 in		
36 × 37 in models			
A	36.00 in	I	55.25 in
B	37.00 in	J	58.25 in
D	3.66 in	L	40.37 in
G	35.25 in	M	12.00 in
H	3.25 in		

Distance from floor to top of center weighing surface: 1.94 in
Distance from floor to bottom of weighing surface: 0.62 in
Note: 1 in=25.4 mm

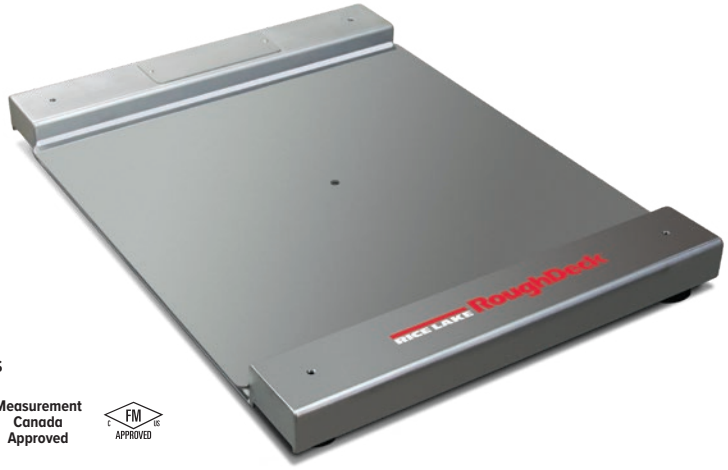


FLOOR SCALES

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RoughDeck® BDP Stainless Steel

Barrel, Drum, Pallet Scale - Stationary Model



Approvals

Measurement Canada Approved

Standard Features

- Live side rails
- Top-access foot adjustment holes
- Four adjustable stainless steel SUREFOOT™ support feet
- Smooth top plate
- Stainless steel, IP66 load cells

Specifications

End Load Capacity:
1,000 lb: 100% full scale
2,500 lb: 80% full scale

Cable Length:
10 ft (3 m)

Scale Weldment:
AISI304L, glass bead blasted for even appearance

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch, consult factory if continuous is required

Threaded Eyebolt:
Holes are 1/2-13 threaded for lifting scale

Warranty (limited):
Weldment: Five years
Load cells: Two years
All other components: One year

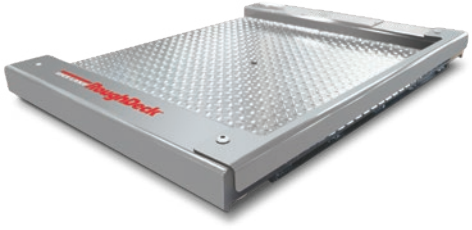
Approvals:
NTEP CC 03-060, Class III 2,500 d
Measurement Canada AM-5578
(500 kg) Class III 2,500 d
(1,000 kg) Class III 2,000 d

Part Number/Price

Part #	Size (W × LW)	Capacity (Canadian Approved Capacities)	Est. Weight	Price
77967	30 × 31 in	1,000 lb (500 kg)	205 lb	$4,315.00
77968	30 × 31 in	2,500 lb (1,000 kg)	205 lb	$4,315.00
77969	36 × 37 in	1,000 lb (500 kg)	265 lb	$4,445.00
77970	36 × 37 in	2,500 lb (1,000 kg)	265 lb	$4,445.00
Part #	**Size (W × LW)**	**Ramp Angle of Incline**	**Est. Weight**	**Price**
Access Ramps				
78013	30 × 12 in (sold individually)	7.2°	25 lb	$370.00
78014	36 × 12 in (sold individually)	7.2°	30 lb	$370.00

Options/Accessories

Part #	Description	Price
18778	Floor anchor plates, stainless steel, set of 2 (for use with static scale, without ramps)	$55.00
28740	Floor stand for indicator, 36.3 in high, stainless steel (for use with static scale)	$340.00
Consult	Stainless steel deck with RL32218S-HE hermetically sealed IP69K stainless steel (cFMus approved) load cells and hardware	+$340.00 list price add-on
Consult	Stainless steel diamond treadplate safety deck	Consult
214614	Back stop and mounting hardware for 30 in wide scale	$295.00
214615	Back stop and mounting hardware for 36 in wide scale	$295.00

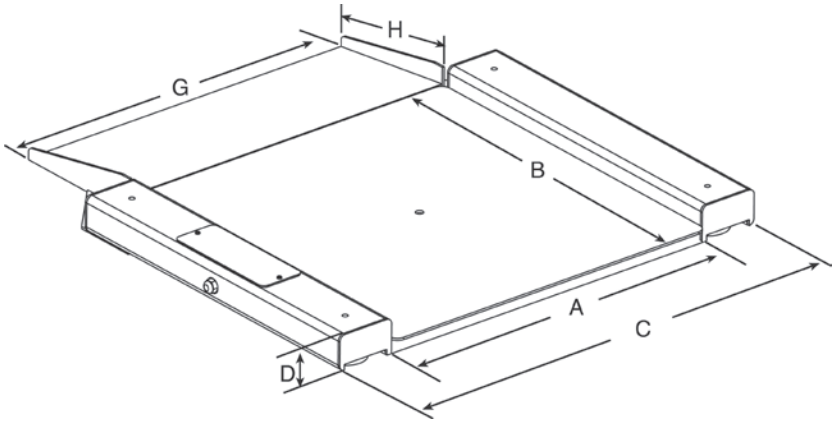


Shown with optional diamond treadplate and backstop

Dimensions

RoughDeck BDP stainless steel with access ramp			
30 × 31 in models			
A	30.0 in	D	3.31 in
B	31.0 in	G	30.0 in
C	40.0 in	H	12.0 in
36 × 37 in models			
A	36.0 in	D	3.31 in
B	37.0 in	G	36.0 in
C	46.0 in	H	12.0 in

Distance from floor to top of center weighing surface: 1.625 in
Distance from floor to bottom of weighing surface: 0.31 in
Note: 1 in=25.4 mm



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RoughDeck® BDP Stainless Steel

Barrel, Drum, Pallet Scale – Portable Model



Portability kit

Scale shown with optional portability kit, optional ramps

Approvals

Measurement Canada Approved

Part Number/Price

Part #	Size (W × LW) Not Including Siderails	Capacity (Canadian Approved Capacities)	Est. Weight	Price
77967	30 × 31 in	1,000 lb (500 kg)	205 lb	$4,315.00
77968	30 × 31 in	2,500 lb (1,000 kg)	205 lb	$4,315.00
77969	36 × 37 in	1,000 lb (500 kg)	265 lb	$4,445.00
77970	36 × 37 in	2,500 lb (1,000 kg)	265 lb	$4,445.00
Portability Kits				
Kits Include: Frame, two swivel and two fixed zinc plated steel NSF approved wheels (75 lb max. load capacity), indicator stand				
78023	For use with 30 × 31 in scale		90 lb	$1,655.00
78024	For use with 36 × 37 in scale		100 lb	$1,735.00
RoughDeck BDP Portability Kit, with conductive wheels for use with 882IS				
199100	30 × 31 in		25 lb	$2,390.00
199101	36 × 37 in		30 lb	$2,470.00
Part #	**Size (W × L)**	**Ramp Angle of Incline**	**Est. Weight**	**Price**
Hinged access ramps: For use with portability kit (diamond plate)				
78017	29.25 × 12 in (sold individually)	8.7°	25 lb	$370.00
78018	35.25 × 12 in (sold individually)	8.7°	30 lb	$370.00

Options/Accessories

Part #	Description	Price
Consult	Stainless steel deck with RL32218S-HE hermetically sealed IP69K stainless steel (cFMus approved) load cells and hardware	+$340.00 list price add-on
Consult	Stainless steel diamond treadplate safety deck	Consult
214614	Back stop and mounting hardware for 30 in wide scale	$295.00
214615	Back stop and mounting hardware for 36 in wide scale	$295.00

Standard Features

- Live side rails
- Top-access foot adjustment holes
- Four adjustable stainless steel SUREFOOT™ support feet
- Smooth top plate
- IP66 stainless steel, welded-seal load cells

Specifications

End Load Capacity:
1,000 lb: 100% full scale
2,500 lb: 80% full scale

Cable Length:
10 ft (3 m)

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch, consult factory if continuous is required

Threaded Eyebolt:
Holes are 1/2-13 threaded for lifting scale

Warranty (limited):
Weldment: Three years
Load cells: Two years
All other components: One year

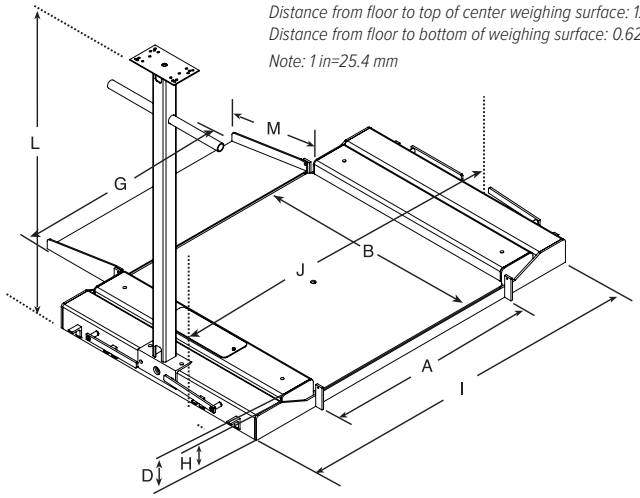
Approvals:
NTEP CC 03-060, Class III 2,500 d
Measurement Canada AM-5578
(500 kg) Class III 2,500 d
(1,000 kg) Class III 2,000 d

Dimensions

RoughDeck BDP stainless steel with portability frame and hinged access ramps			
30 × 31 in models			
A	30.00 in	I	49.25 in
B	31.00 in	J	52.25 in
D	3.66 in	L	40.37 in
G	29.25 in	M	12.0 in
H	3.25 in		
36 × 37 in models			
A	36.00 in	I	55.25 in
B	37.00 in	J	58.25 in
D	3.66 in	L	40.37 in
G	35.25 in	M	12.00 in
H	3.25 in		

Distance from floor to top of center weighing surface: 1.94 in
Distance from floor to bottom of weighing surface: 0.62 in

Note: 1 in=25.4 mm



FLOOR SCALES

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DeckHand™

Portable Floor Scale



Standard Features

- Mild or stainless steel wheeled frame, base and mast
- Diamond tread top plate, mild or stainless steel
- Large rubber wheels (not rated for IS) simplify movement on uneven floors
- Two IP67 aluminum load cells
- Standard indicator mount with integral handles for the 380/380X Synergy, 880/880 Plus, 680 Synergy and 381 Synergy

Specifications

End Load Capacity:
100% end loading

Cable length:
9 ft 10 in (3 m)

mV/V Output:
2 mV/V

Weighing Platter:
4.5 in height when in weigh mode

Column Height:
59 in

Warranty:
Weldment: Five years
Load cells: Two years
All other components: One year

Approvals:
NTEP Certified, 98-004, Class III, 2,500 d
Measurement Canada , AM-5218

Approvals

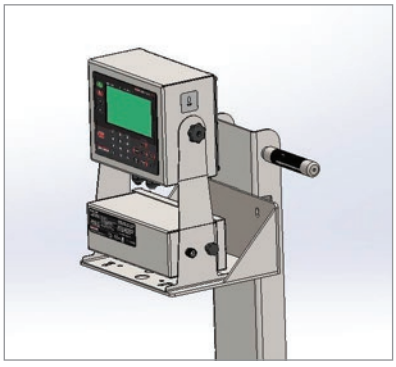
Measurement Canada Approved

Part Number/Price

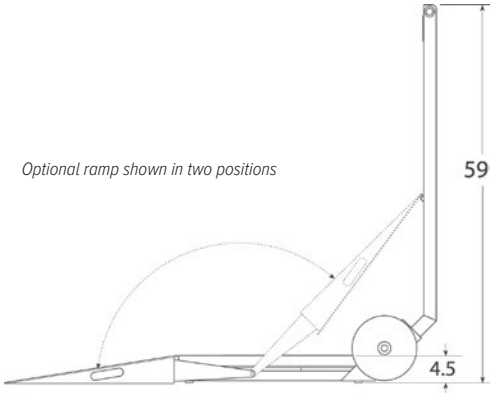
Part #	Platform Size (W × L)	Overall Size (W × L × H)	Capacity	Est. Weight	Price
Mild Steel					
41293	24.25 × 30.375 in	31 × 41 × 4.5 in	500 lb	336 lb	$3,495.00
41294	24.25 × 30.375 in	31 × 41 × 4.5 in	1,000 lb	356 lb	$3,495.00
41295	24.25 × 30.375 in	31 × 41 × 4.5 in	2,000 lb	373 lb	$3,625.00
Mild Steel, with conductive wheel for use with 882IS					
211285	24.25 × 30.375 in	31 × 41 × 4.5 in	500 lb	336 lb	$4,095.00
211286	24.25 × 30.375 in	31 × 41 × 4.5 in	1,000 lb	356 lb	$4,095.00
211287	24.25 × 30.375 in	31 × 41 × 4.5 in	2,000 lb	373 lb	$4,225.00
Stainless Steel					
41296	24.25 × 30.375 in	31 × 41 × 4.5 in	500 lb	336 lb	$4,635.00
41297	24.25 × 30.375 in	31 × 41 × 4.5 in	1,000 lb	356 lb	$4,635.00
41298	24.25 × 30.375 in	31 × 41 × 4.5 in	2,000 lb	373 lb	$4,875.00

Options/Accessories

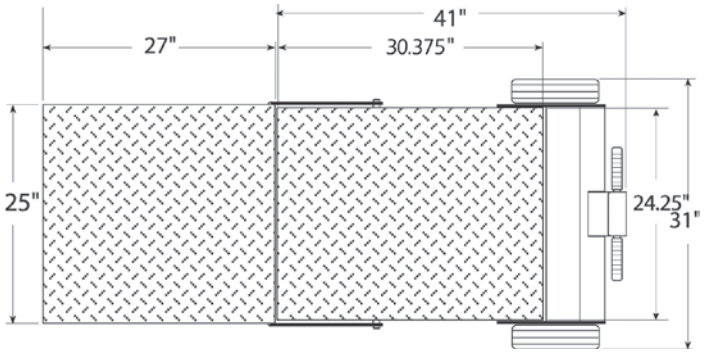
Part #	Description	Ramp Angle of Incline	Price
Mild Steel			
43376	500/1,000 lb mild steel ramp	9°	$415.00
43378	2,000 lb mild steel ramp	9°	$480.00
Stainless Steel			
43377	Ramp assembly, 500/1,000 lb, stainless steel, 27 × 25 in	7.2°	$930.00
43379	Ramp assembly, 2,000 lb, stainless steel, 27 × 25 in	7.2°	$1,055.00
Consult	Smooth top		N/C
Mounting Brackets			
41371	Mounting bracket for 882IS/882IS Plus with battery		$99.00



Mounting bracket for 882IS/882IS Plus with battery



Optional ramp shown in two positions



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Standard Features

- NTEP Certified
- Cast iron construction
- 1,000 lb capacity model available
- Locking screw knob on poise
- Slotted cast iron counterpoise weights, marked to scale capacity
- Heavy-duty wheels for portability (wheels are not rated for IS environment)
- Weights and hanger
- Nickel-plated steel beam with engraved brass insert

Specifications

Construction:
Cast-iron platform, base and levers

Poise:
Steel locking screw provided

Platform Dimensions:
(L × W): 24 × 18 in

Capacity:
1,000 lb

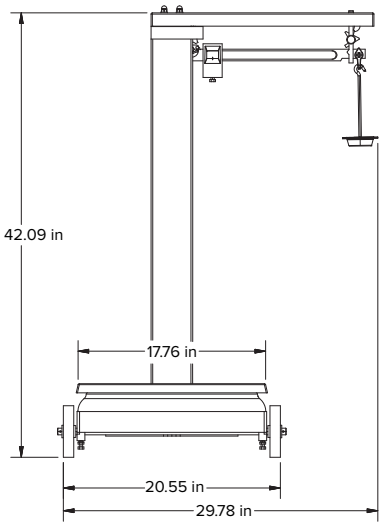
Approvals:
NTEP Certified 93-004 Class III 2,000 d

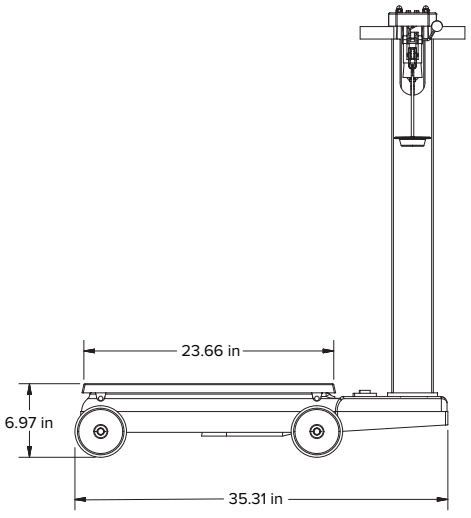
Warranty:
One-year limited

Approvals

Part Number/Price

Part #	Description	Capacity	Est. Weight	Price
157982	Avoirdupois beam, NTEP Certified	1,000 × 0.5 lb	200 lb	$1,095.00





FLOOR SCALES

RL1200 EM

Electromechanical Portable Beam Scale and 380 Indicator



Approvals

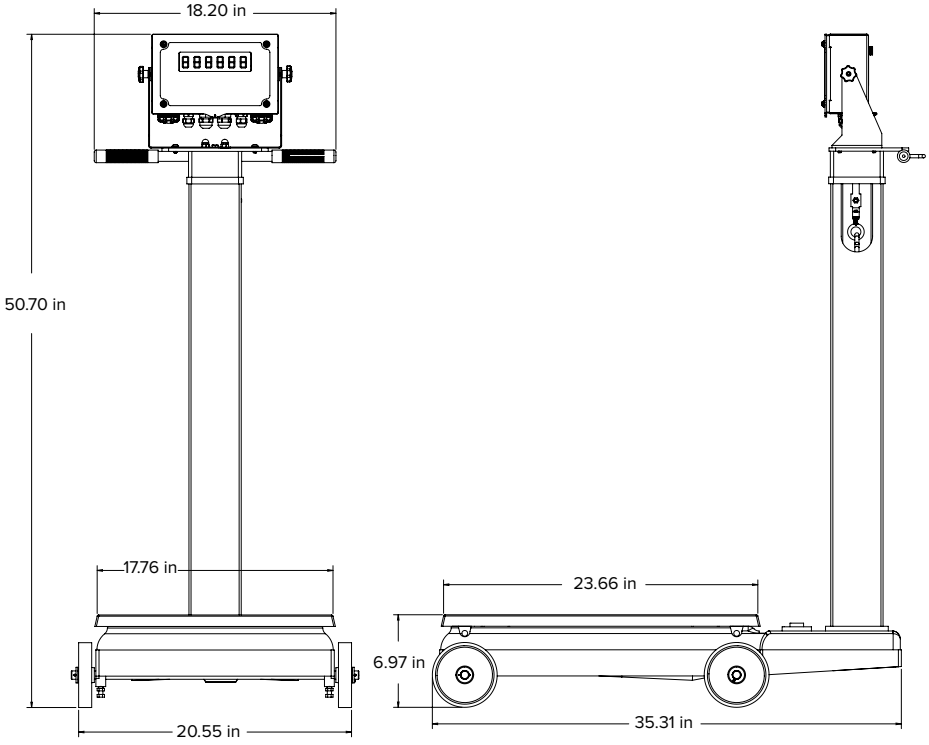
Measurement Canada Approved

Part Number/Price

Part #	Overall Size (W x L x H)	Capacity	Est. Weight	Price
216112	Portable beam with 380 Synergy	1,000 x 0.5 lb	200 lb	$2,390.00

Options/Accessories

Part #	Description	Price
206433†	380 indicator external AC adapter	$60.00



Standard Features

Scale

- NTEP Certified
- 1,000 lb capacity
- Heavy-duty wheels and handle for portability

380 Indicator

- LCD display
- Alkaline battery powered
- Push-button and keyed tare
- Two communication ports
- Five tactile buttons
- Configurable print formats

RL1200 EM Specifications

Construction:
Cast-iron platform, base and levers

Platform Dimensions:
(L × W) 24 × 18 in

Capacity:
1,000 lb

Approvals:
NTEP 93-004 Class III 2,000 d

Warranty:
One-year limited

380 Specifications

Power:
Batteries: 4 alkaline C-cell (not included)
Optional: 115/230 VAC to 12 VDC adapter

Battery Life:
100 hours with 1 × 350 ohm load cell, no backlight
45 hours with 4 × 350 ohm load cells, low backlight
20 hours with 8 × 350 ohm load cells, low backlight

Communication Ports:
One RS-232 (three-wire)
One USB 2.0

Annunciators:
g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Display:
Six 1 in (25 mm) tall, LCD digits

Keys/Buttons:
Five tactile buttons

Rating/Material:
IP66, 304 Stainless steel

Approvals:
NTEP 21-051, Class III/IIIL, 10,000 d
Measurement Canada AM-6184
cULus
CE marked

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RL1200 IS

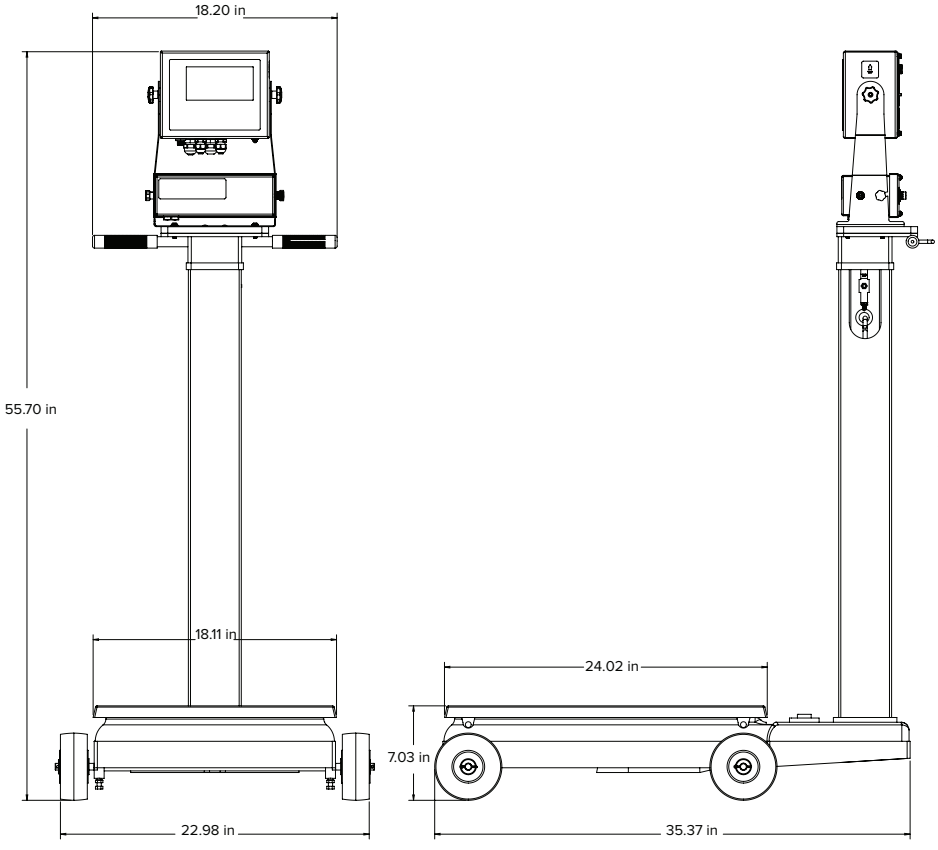
Intrinsically Safe Electromechanical Portable Beam Scale



Approvals

Part Number/Price

Part #	Description	Capacity	Est. Weight	Price
195558	Portable beam scale with 882IS, battery pack and charger	1,000 × 0.5 lb	200 lb	$4,745.00
195560	Portable beam scale with 882IS Plus, battery pack and charger	1,000 × 0.5 lb	200 lb	$5,235.00



Standard Features

Scale

- NTEP Certified
- 1,000 lb capacity
- Conductive wheels to eliminate static buildup and discharge
- Handle for ease of portability

Indicator

- Intrinsically safe
- LCD display with white LED backlight
- Power on/off; battery save mode

Specifications

Construction:
Cast-iron platform, base and levers

Platform Dimensions:
(L × W): 24 × 18 in

Capacity:
1,000 lb

Approvals:
NTEP 93-004 Class III 2,000d

Warranty:
One-year limited

882IS Specifications

Power:
Input: 5.8 to 7.9 VDC, 100 to 175 mA

Battery (optional):
60 hours with 4 × 350 ohm load cells
80 to 100 hours with
1 × 350 ohm load cell
8 to 10 hour charging time

Annunciators:
Center of zero, gross, net, motion, lb, kg, oz, g

Display Increments:
1, 2, 5

Display:
Seven-digit, seven-segment LCD display
121 × 24 dot matrix messaging area
White LED backlight

Keys/Buttons:
Flat membrane panel, tactile feel
882IS: zero, gross/net, tare, print, units conv, start, stop, on/off
882IS Plus: zero, gross/net, tare, print, units conv, start, stop, full numeric keypad, on/off

Rating/Material:
IP66 enclosure
Stainless steel

Warranty:
One-year limited

Approvals:
cULus Listed*
FM Entity
ATEX
IECEx
NTEP CC 19-015
Measurement Canada AM-6124C
OIML R76/2006-A-NL1-21.11
EU Test Certificate T11166
cULus* Listed
CE Marked
**cULus is only applicable to 882IS I/O and battery charger*

FLOOR SCALES

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Altralite™

Portable Low-profile Anodized Aluminum Floor Scale



Approvals

FM C US APPROVED

Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
18677	4 ft × 4 ft × 3.5 in	5,000 lb	150 lb	$4,395.00

Options/Accessories

Part #	Description	Price
Consult	Four drilled deck holes for scale height adjustment	$40.00
Consult	Top-access junction box	+$100.00 list price add-on

Standard Features

- Low-profile design
- Black anodized aluminum construction to improve durability, resistance to corrosion and scratching
- Diamond treadplate safety deck
- Four high-alloy tool steel shear beam load cells
- Side-access junction box
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable
- Four adjustable stainless steel SUREFOOT™ support feet

Specifications

End Load Capacity:
100% full scale

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Junction Box:
TuffSeal® JB4SS stainless steel, NEMA Type 4X junction box with signal trim card

Welding:
Stitch, consult factory if continuous is required

Warranty (limited):
Load cells: Two-years
All other components: One-year limited

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RoughDeck® FXB

Painted Steel and Stainless Steel, Flexure Lever Floor Scale



Approvals

Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
Painted Steel				
33134	18 × 24 × 6.5 in	500 lb (250 kg)	125 lb	$4,825.00
33066	18 × 24 × 6.5 in	1,000 lb (500 kg)	125 lb	$4,825.00
113566	18 × 30 × 6.5 in	500 lb (250 kg)	133 lb	$4,825.00
33136	18 × 30 × 6.5 in	1,000 lb (500 kg)	133 lb	$4,825.00
113567	18 × 30 × 6.5 in	1,500 lb (750 kg)	133 lb	$4,825.00
33067	24 × 24 × 6.5 in	500 lb (250 kg)	151 lb	$5,000.00
33068	24 × 24 × 6.5 in	1,000 lb (500 kg)	151 lb	$5,000.00
33138	30 × 30 × 6.5 in	500 lb (250 kg)	191 lb	$5,175.00
33069	30 × 30 × 6.5 in	1,000 lb (500 kg)	191 lb	$5,175.00
33139	30 × 30 × 6.5 in	1,500 lb (750 kg)	191 lb	$5,175.00
33070	30 × 30 × 8.25 in	2,000 lb (1,000 kg)	281 lb	$5,350.00
33140	36 × 36 × 8.25 in	1,000 lb (500 kg)	234 lb	$5,350.00
33071	36 × 36 × 8.25 in	2,000 lb (1,000 kg)	234 lb	$5,350.00
33072	36 × 36 in × 8.25 in	5,000 lb (2,500 kg)	234 lb	$5,350.00
33141	38 × 46 × 8.25 in	1,000 lb (500 kg)	610 lb	$5,350.00
113569	38 × 46 × 8.25 in	2,000 lb (1,000 kg)	610 lb	$5,350.00
113570	38 × 46 × 8.25 in	5,000 lb (2,500 kg)	610 lb	$5,350.00
113572	48 × 48 × 8.25 in	1,000 lb (500 kg)	654 lb	$6,100.00
33073	48 × 48 × 8.25 in	2,000 lb (1,000 kg)	654 lb	$6,100.00
33074	48 × 48 × 8.25 in	5,000 lb (2,500 kg)	654 lb	$6,100.00
33075	48 × 48 × 9.25 in	10,000 lb (5,000 kg)	735 lb	$6,750.00
33078	48 × 60 × 9.25 in	10,000 lb (5,000 kg)	845 lb	$7,800.00
33149	48 × 72 × 9.25 in	5,000 lb (2,500 kg)	1,120 lb	$8,300.00
33080	48 × 72 × 9.25 in	10,000 lb (5,000 kg)	1,120 lb	$8,300.00
33081	60 × 60 × 8.25 in	5,000 lb (2,500 kg)	967 lb	$8,300.00
33082	60 × 60 × 9.25 in	10,000 lb (5,000 kg)	1,180 lb	$8,300.00
33083	60 × 72 × 10.25 in	10,000 lb (5,000 kg)	-	$8,895.00
Stainless Steel				
113581	24 × 24 × 6.5 in	500 lb (250 kg)	151 lb	$6,035.00
113582	24 × 24 × 6.5 in	1,000 lb (500 kg)	151 lb	$6,035.00
113586	30 × 30 × 8.25 in	2,000 lb (1,000 kg)	281 lb	$9,165.00
113588	36 × 36 × 8.25 in	2,000 lb (1,000 kg)	450 lb	$10,025.00
113595	48 × 48 × 8.25 in	5,000 lb (2,500 kg)	630 lb	$13,350.00
113604	48 × 60 × 8.25 in	5,000 lb (2,500 kg)	-	$17,660.00
113596	48 × 48 × 11.25 in	10,000 lb (5,000 kg)	735 lb	$16,660.00
113613	60 × 72 × 11.25 in	10,000 lb (5,000 kg)	1,290 lb	$24,000.00

Options/Accessories

Part #	Description	Price
Consult	FXB forklift skid, constructed with (2) 8 in wide painted steel channels attached to FXB scale frame per customer's specified center-to-center distance Note: For FXB-3846 through FXB-6084 scales only	$1,125.00
Consult	FXB forklift skid with indicator column, constructed with (2) 8 in wide painted steel channels attached to FXB scale frame per customer's specified center-to-center distance, one channel extended beyond frame 12 in with 54 in indicator column Note: For FXB-3846 through FXB-6084 scales only	$1,250.00

NOTE: Indicator stand works with 120/120 Plus, 480/480 Plus, 482/482 Plus, 880/880 Plus, 882IS/882IS Plus, 882IS/882IS Plus w/battery, 680 Synergy

Standard Features

Painted Steel

- Unique flexure design filters motion and shock loading
- Spring steel flexures
- Rugged all-steel painted construction smooth deck
- One RL20000 series nickel-plated s-beam load cell and plated wire rope
- NTEP Certified models in sizes 24 × 24 in (500 lb) through 72 × 96 in up to 10,000 lb capacity

Stainless Steel

- Unique flexure design filters motion and shock loading
- All 304 stainless steel construction, smooth deck
- Stainless flexures, hardware and load cell
- NTEP Certified models in sizes 24 × 24 in (500 lb) through 72 × 96 in up to 10,000 lb capacity

Specifications

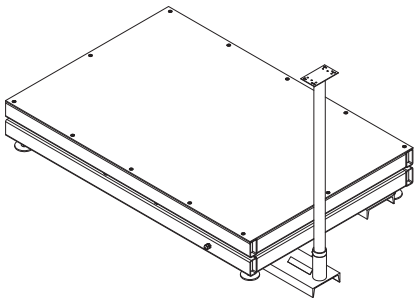
End Loading Capacity:
100% of scale capacity

Safe Overload Capacity:
150% of scale capacity

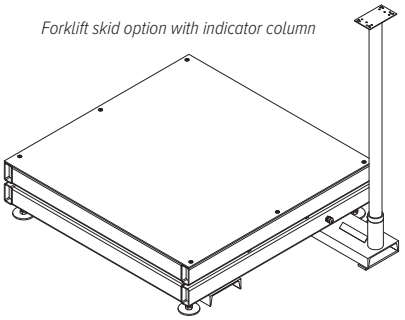
Warranty:
Two-year limited

Approvals:
Painted: NTEP 88-100, Class III 5,000 d
Stainless steel: NTEP 88-100, Class III 3,000 d

On rectangular scales, the forks MUST run the long direction of the scale so the cord grip will be on the side adjacent



Forklift skid option with indicator column



FLOOR SCALES

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Summit® 3000 and 120 Indicator Package

Floor Scale/120 Indicator Package



Approvals

Measurement Canada Approved

Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
Floor Scale and Indicator Package (Single Scale)				
Package includes Summit 3000 floor scale, 120 digital weight indicator with tilt stand, 20 ft load cell cable with quick disconnect; configured and calibrated				
115 VAC				
78772	4 ft × 4 ft × 3.625 in	5,000 × 1 lb	315 lb	$2,650.00
78773	4 ft × 4 ft × 3.625 in	10,000 × 2 lb	315 lb	$2,650.00
230 VAC				
78780	4 ft × 4 ft × 3.625 in	5,000 × 1 lb	315 lb	$2,650.00
78781	4 ft × 4 ft × 3.625 in	10,000 × 2 lb	315 lb	$2,650.00
115 VAC Measurement Canada Approved				
78776	4 ft × 4 ft × 3.625 in	2,500 lb × 0.5 kg	315 lb	$2,650.00
78777	4 ft × 4 ft × 3.625 in	5,000 lb × 1 kg	315 lb	$2,650.00

Options/Accessories

Part #	Description	Price
Summit 3000 Floor Scale		
Consult	Access ramps available	See catalog page 381
Consult	Pit frames available	See catalog page 384
Consult	Bumper guards available	See catalog page 387 through catalog page 389
Consult	Portability frames available	See catalog page 390 through catalog page 395
75819	Floor anchor plates, mild steel (set of two)	$40.00
19352	Floor stand for indicator, 36.3 in high, mild steel	$250.00
126384	Floor stand for indicator, 48 in high, mild steel	$275.00

Standard Features

- Package includes: Summit 3000 4 ft × 4 ft × 3.625 in floor scale, 20 ft of EL147 load cell cable with quick disconnect, and 120 indicator
- Package configured and factory calibrated for 5,000 divisions

Scale

- Four NTEP Certified alloy steel, shear beam load cells
- Top-access junction box
- Diamond safety tread plate deck
- Four adjustable rigid polyurethane rubber feet, 3 in (76 mm) diameter
- Signal trim summing board housed in ABS enclosure
- Threaded eyebolt hole (1/2–20NF) located in the center of the deck for easy lifting

Indicator

- Large 0.8 in backlit LCD display
- Five-button operation
- Full front panel digital calibration and configuration

Specifications

End Load Capacity:
100% full scale at 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

Warranty (limited):
Weldment and load cells: Two-years
All other components: One-year

Approvals:
NTEP 92-001, Class III 5,000 d
Measurement Canada AM-5530, Class III 5,000 d (2,500 kg, 5,000 kg)

120 Specifications

Power:
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz

Communication Port:
EDP port: Full duplex RS-232
Printer port: Output-only RS-232 or active 20 mA current loop
Both ports: 9600, 4800, 2400, 1200, 600, 300bps; Seven or eight data bits; even, odd or no parity

Display:
0.8 in (20 mm), six-digit red LED display, seven-segment digits

Annunciators:
Center of zero, stand still, gross, net, lb, kg, oz, g

Keys/Buttons:
Five-key flat membrane panel, tactile feel

Rating/Material:
Enclosure: heavy gauge ABS

Warranty:
One-year limited

Approvals:
NTEP 03-059, Class III/IIIL 10,000 d
Measurement Canada AM-5517, Class III/IIIHD 10,000 d
EU Test Certificate TC7028 (120) Class III, 10,000 d
CE marked

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Summit® 3000 and 120 Plus Indicator Package

Floor Scale/120 Plus Indicator Package



Approvals

Measurement Canada Approved

Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
Floor Scale and Indicator Package (Single Scale)				
Package includes Summit® 3000 floor scale, 120/120 Plus digital weight indicator with tilt stand, 20 ft load cell cable with quick disconnect; configured and calibrated				
115 VAC				
106913	4 ft × 4 ft × 3.625 in	5,000 × 1 lb	315 lb	$2,795.00
106914	4 ft × 4 ft × 3.625 in	10,000 × 2 lb	315 lb	$2,795.00
230 VAC				
106915	4 ft × 4 ft × 3.625 in	5,000 × 1 lb	315 lb	$2,795.00
106916	4 ft × 4 ft × 3.625 in	10,000 × 2 lb	315 lb	$2,795.00
115 VAC Measurement Canada Approved				
106917	4 ft × 4 ft × 3.625 in	2,500 lb × 0.5 kg	315 lb	$2,795.00
106918	4 ft × 4 ft × 3.625 in	5,000 lb × 1 kg	315 lb	$2,795.00

Options/Accessories

Part #	Description	Price
Summit® 3000 Floor Scale		
Consult	Access ramps available	See catalog page 381
Consult	Pit frames available	See catalog page 384
Consult	Bumper guards available	See catalog page 387 through catalog page 389
Consult	Portability frames available	See catalog page 390 through catalog page 395
75819	Floor anchor plates, mild steel (set of two)	$40.00
19352	Floor stand for indicator, 36.3 in high, mild steel	$250.00
126384	Floor stand for indicator, 48 in high, mild steel	$275.00

Standard Features

- Package includes: Summit 3000 4 ft × 4 ft × 3.625 in floor scale, 20 ft of EL147 load cell cable with quick disconnect, and 120 Plus indicator
- Package configured and factory calibrated for 5,000 divisions

Scale

- Four NTEP Certified alloy steel, shear-beam load cells
- Top-access junction box
- Diamond safety tread plate deck
- Four adjustable rigid polyurethane rubber feet, 3 in (76 mm) diameter
- Signal trim summing board housed in ABS enclosure
- Threaded eyebolt hole (1/2–20NF) located in the center of the deck for easy lifting

Indicator

- Large 0.8 in backlit liquid crystal display (LCD)
- 115 or 230 VAC wall adapter with rechargeable battery

Summit Floor Scale Specifications

End Load Capacity:
100% full scale at 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

Warranty (limited):
Weldment and load cells: Two-years
All other components: One-year

Approvals:
NTEP 92-001, Class III 5,000 d
Measurement Canada AM-5530, Class III 5,000 d (2,500 kg, 5,000 kg)

120 Plus Specifications

Power:
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz

Battery Life:
60 hours with 1 × 350 ohm, 40 hours with 4 × 350 ohm
Charge time: Eight hours

Communication Port:
EDP port: Full duplex RS-232
Printer port: Output-only RS-232 or active 20 mA current loop
Both ports: 9600, 4800, 2400, 1200, 600, 300bps; Seven or eight data bits; even, odd or no parity

Display:
0.8 in (20 mm) six-digit LCD with backlight, seven-segment digits

Annunciators:
Battery, setpoint 1 and 2, Hold

Keys/Buttons:
Zero, tare, preset tare, hold, gross/net, units, numeric 0-9, clear, enter/print

Rating/Material:
Enclosure: heavy gauge ABS

Warranty:
One-year limited

Approvals:
NTEP 03-059, Class III/IIIL 10,000 d
Measurement Canada AM-5517
CE Marked

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Summit® 3000

Low-profile Floor Scale



Approvals

Measurement Canada Approved

Part Number/Price

Part #	Size (W ×L × H)	Capacity	Est. Weight	Price
Single Scale				
74715	3 ft × 3 ft × 3.625 in	2,000 lb	190 lb	$1,995.00
74716	4 ft × 4 ft × 3.625 in	2,000 lb	305 lb	$2,125.00
74717	4 ft × 4 ft × 3.625 in	5,000 lb	305 lb	$2,125.00
74718	4 ft × 4 ft × 3.625 in	10,000 lb	305 lb	$2,125.00
74719	4 ft × 5 ft × 3.625 in	5,000 lb	395 lb	$2,345.00
74720	4 ft × 5 ft × 3.625 in	10,000 lb	445 lb	$3,185.00
74721	4 ft × 6 ft × 3.625 in	5,000 lb	470 lb	$2,535.00
74722	4 ft × 6 ft × 3.625 in	10,000 lb	525 lb	$3,375.00
74723	5 ft × 5 ft × 3.625 in	5,000 lb	505 lb	$2,575.00
74724	5 ft × 5 ft × 3.625 in	10,000 lb	575 lb	$3,415.00
Single Scale–Measurement Canada Approved				
77440	3 ft × 3 ft × 3.625 in	1,000 kg	190 lb	$1,995.00
77373	4 ft × 4 ft × 3.625 in	1,000 kg	305 lb	$2,125.00
77346	4 ft × 4 ft × 3.625 in	2,500 kg	305 lb	$2,125.00
77347	4 ft × 4 ft × 3.625 in	5,000 kg	305 lb	$2,125.00
82880	4 ft × 5 ft × 3.625 in	2,500 kg	395 lb	$2,345.00
82881	4 ft × 5 ft × 3.625 in	5,000 kg	445 lb	$3,185.00
77348	5 ft × 5 ft × 3.625 in	2,500 kg	505 lb	$2,575.00
77349	5 ft × 5 ft × 3.625 in	5,000 kg	575 lb	$3,415.00

Options/Accessories

Part #	Description	Price
75819	Floor anchor plates, mild steel (set of two)	$40.00
Consult	Top-access foot adjust holes	$40.00
19352	Floor stand for indicator, 36.3 in high, mild steel	$250.00
126384	Floor stand for indicator, 48 in high, mild steel	$275.00

**For custom sizes or capacities, please consult factory for RoughDeck® HP pricing*

Standard Features

- Four NTEP Certified alloy steel shear beam load cells
- Top access junction box
- Diamond safety tread plate deck
- Four adjustable rigid polyurethane rubber feet, 3 in (76 mm) diameter
- Signal trim summing board housed in ABS enclosure
- Threaded eyebolt hole (1/2-20NF) located in the center of the deck for easy lifting
- 20 ft of EL147 load cell cable. The load cell cable exits weldment toward the interior of scale, allowing flexibility to route out any side of scale to digital weight indicator.

Specifications

End Load Capacity:
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

Cable Length:
20 ft (6.1 m) for connecting junction box to indicator

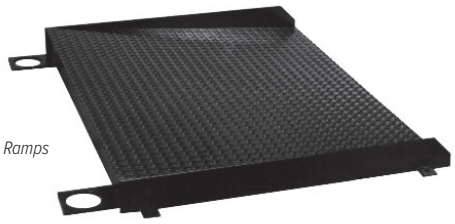
Threaded Eyebolt:
Hole (1/2-20 NF) located in center of deck for easy lifting

Warranty (limited):
Weldment and load cells: Two-years
All other components: One-year

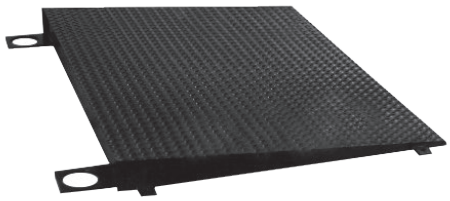
Approvals:
NTEP 92-001A9, Class III 5,000 d
Measurement Canada AM-5530, Class III 5,000 d (2,500 kg, 5,000 kg) 2,000 d (1,000 kg)

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RoughDeck® Access Ramps



RoughDeck Access Ramps with Side Rails



RoughDeck Access Ramps without Side Rails

RoughDeck Access Ramps

Part # with Side Rails	Part # without Side Rails	Size (W× L × H)	Ramp Angle of Incline	Est. Weight	Price
RoughDeck HP: 1,000 to 10,000 lb (diamond treadplate standard)					
69040*	**224097**	2.5 ft ×3 ft × 3.5 in	5.3°	115 lb	$645.00
69041*	**224099**	3 ft × 3 ft × 3.5 in	5.3°	133 lb	$685.00
69042*	**224100**	4 ft × 3 ft × 3.5 in	5.3°	177 lb	$750.00
69043*	**224101**	5 ft × 3 ft × 3.5 in	5.3°	226 lb	$845.00
69184	**224102**	2.5 ft × 4 ft × 3.5 in	3.9°	152 lb	$750.00
69185	**224103**	3 ft × 4 ft × 3.5 in	3.9°	177 lb	$800.00
69186	**224104**	4 ft × 4 ft × 3.5 in	3.9°	224 lb	$895.00
69187	**224105**	5 ft × 4 ft × 3.5 in	3.9°	272 lb	$950.00
RoughDeck HP-H: 20,000 lb (diamond treadplate standard)					
69204	**224106**	4 ft × 4 ft × 4 in	4.4°	487 lb	$1,575.00
69205	**224107**	5 ft × 4 ft × 4 in	4.4°	591 lb	$1,800.00
69206	**224108**	6 ft × 4 ft × 4 in	4.4°	689 lb	$1,895.00
69207	**224109**	7 ft × 4 ft × 4 in	4.4°	822 lb	$2,200.00
69208	**224110**	8 ft × 4 ft × 4 in	4.4°	1005 lb	$2,435.00
RoughDeck HP-H: 30,000 lb (diamond treadplate standard)					
69210	**224111**	4 ft × 5 ft × 5 in	4.4°	666 lb	$1,955.00
69211	**224112**	5 ft × 5 ft × 5 in	4.4°	806 lb	$2,175.00
69212	**224113**	6 ft × 5 ft × 5 in	4.4°	942 lb	$2,385.00
69213	**224114**	7 ft × 5 ft × 5 in	4.4°	1116 lb	$2,695.00
69214	**224115**	8 ft × 5 ft × 5 in	4.4°	1337 lb	$3,115.00
RoughDeck SS and HE: 1,000 to 10,000 lb (diamond treadplate standard)					
232388*	**232389**	2 ft × 3 ft × 3.5 in	5.3°	115 lb	$1,325.00
69178*	**224116**	2.5 ft × 3 ft × 3.5 in	5.3°	115 lb	$1,325.00
69179*	**224117**	3 ft × 3 ft × 3.5 in	5.3°	133 lb	$1,325.00
69180*	**224118**	4 ft × 3 ft × 3.5 in	5.3°	177 lb	$1,620.00
69189	**224119**	2.5 ft × 4 ft × 3.5 in	3.9°	152 lb	$1,475.00
69190	**224120**	3 ft × 4 ft × 3.5 in	3.9°	177 lb	$1,620.00
69191	**224121**	4 ft × 4 ft × 3.5 in	3.9°	224 lb	$2,200.00
69192	**224122**	5 ft × 4 ft × 3.5 in	3.9°	272 lb	$2,490.00

** Not recommended for use with pallet jacks.*

NOTE: Part numbered ramps are designed to fit scale on sides perpendicular to junction box. The junction box is always on longest side of scale unless specified differently.

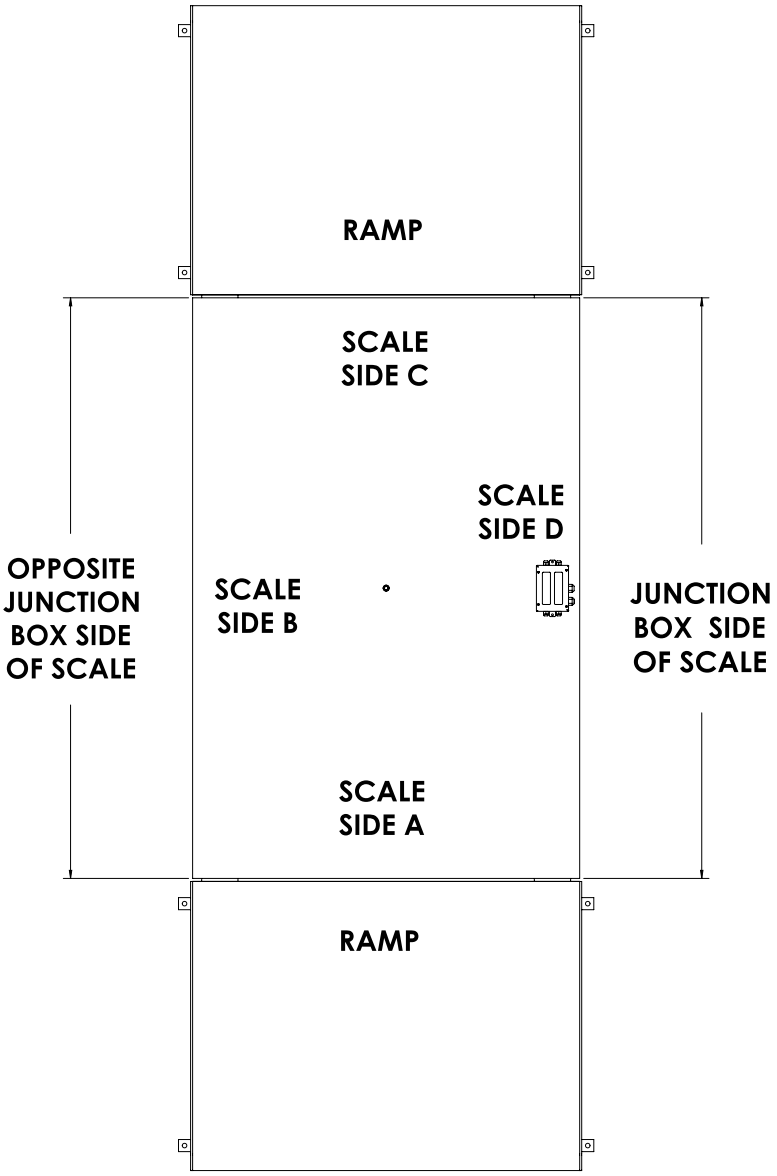
NOTE: Part numbered ramps are designed to fit scale sides A or C; if you need a ramp to fit scale side B or D, please refer to page 382 . Please request a quote for a special ramp.

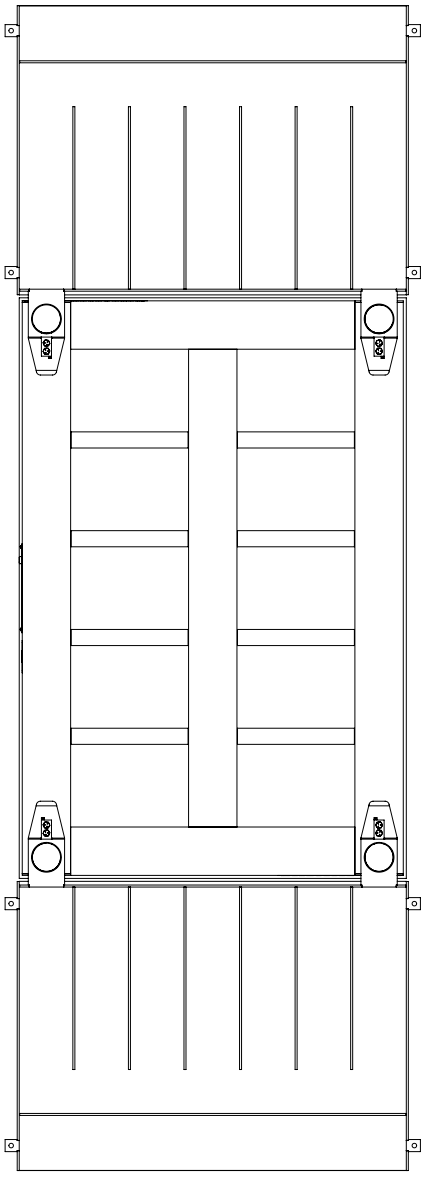
Options/Accessories

Part #	Description	Price
Consult	Epoxy paint	+$150.00 list price add-on

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RoughDeck® Access Ramps





Underdeck View

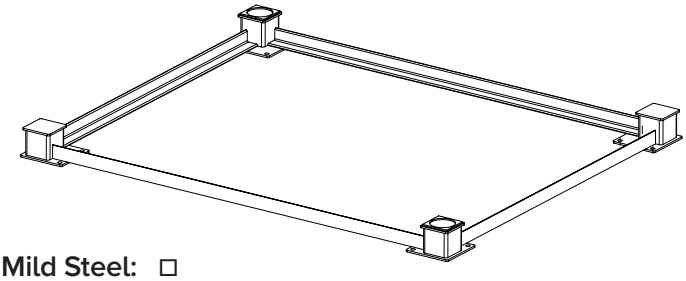
Part numbered ramps are designed to fit scale sides A or C; if you need a ramp to fit scale side B or D, please request a quote for a special ramp.

The junction box is always on the longest side of the scale unless specified differently.

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Floor Scale Pit Mounted Riser Stand

Please complete and email this form to orderdesk@ricelake.com for pricing.



Standard Features

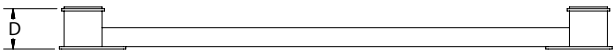
- Ideal for applications with an existing pit and the depth exceeds standard pit depth for the scale
- Designed to be anchored to pit floor (anchor bolts not included)

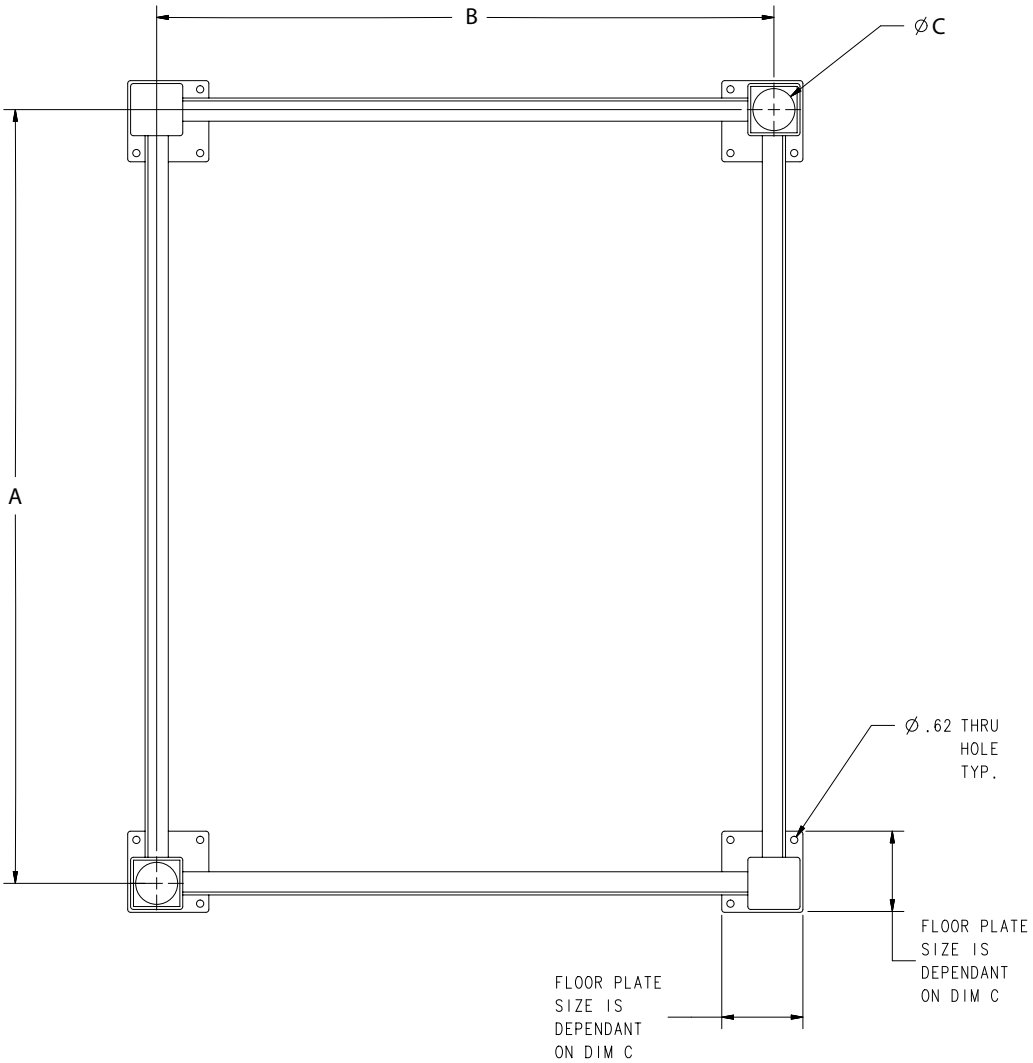
Painted Mild Steel: ☐

Stainless Steel: ☐

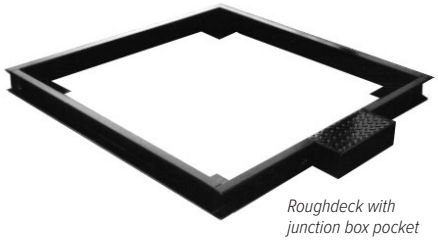
Scale Capacity: _____

A	
B	
C	
D	





RoughDeck® Pit Frames



Roughdeck with junction box pocket



Roughdeck without junction box pocket

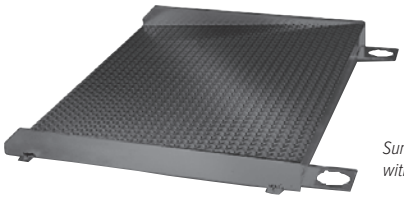
Part Number/Price

Part # with Junction Box Pocket	Part # without Junction Box Pocket	Size (W × L)	Est. Weight	Price
RoughDeck HP: 1,000 to 10,000 lb				
18757	**224271**	2.5 × 2.5 ft	88 lb	$490.00
18759	**224272**	3 × 3 ft	102 lb	$545.00
18761	**224273**	4 × 4 ft	127 lb	$695.00
18763	**224274**	5 × 5 ft	154 lb	$865.00
18765	**224275**	4 × 5 ft	140 lb	$785.00
18767	**224276**	4 × 6 ft	157 lb	$865.00
18769	**224277**	5 × 6 ft	172 lb	$955.00
18771	**224278**	5 × 7 ft	185 lb	$1,020.00
RoughDeck HP-H: 20,000 lb				
39595	**224279**	4 × 4 ft	309 lb	$860.00
39596	**224280**	4 × 5 ft	352 lb	$920.00
39597	**224281**	4 × 6 ft	391 lb	$985.00
39598	**224282**	4 × 7 ft	459 lb	$1,130.00
39599	**224283**	5 × 5 ft	411 lb	$1,035.00
39600	**224284**	5 × 6 ft	460 lb	$1,180.00
39601	**224285**	5 × 7 ft	473 lb	$1,230.00
39602	**224286**	6 × 6 ft	583 lb	$1,365.00
39603	**224287**	6 × 7 ft	597 lb	$1,420.00
39604	**224288**	6 × 8 ft	610 lb	$1,500.00
39605	**224289**	7 × 9 ft	683 lb	$1,595.00
39606	**224290**	7 × 10 ft	781 lb	$1,685.00
39607	**224291**	8 × 10 ft	795 lb	$1,745.00
RoughDeck HP-H: 30,000 lb				
39608	**224292**	4 × 4 ft	356 lb	$1,020.00
39609	**224293**	4 × 5 ft	402 lb	$1,070.00
39610	**224294**	4 × 6 ft	444 lb	$1,160.00
39611	**224295**	4 × 7 ft	516 lb	$1,275.00
39612	**224296**	5 × 5 ft	464 lb	$1,230.00
39613	**224297**	5 × 6 ft	498 lb	$1,305.00
39614	**224298**	5 × 7 ft	533 lb	$1,365.00
39615	**224299**	6 × 6 ft	643 lb	$1,590.00
39619	**224300**	7 × 10 ft	850 lb	$1,765.00
39620	**224301**	8 × 10 ft	875 lb	$1,835.00
RoughDeck SS and HE: 1,000 to 10,000 lb				
232386	**232387**	2 × 2 ft	88 lb	$1,680.00
18758	**224302**	2.5 × 2.5 ft	88 lb	$1,680.00
18760	**224303**	3 × 3 ft	102 lb	$1,680.00
18762	**224304**	4 × 4 ft	127 lb	$2,085.00
18764	**224305**	5 × 5 ft	154 lb	$2,580.00
18766	**224306**	4 × 5 ft	140 lb	$2,340.00
18772	**224307**	5 × 7 ft	185 lb	$3,070.00

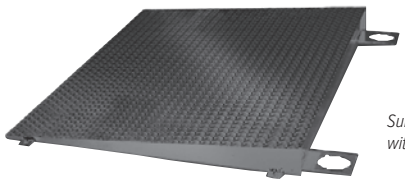
Options/Accessories

Part #	Description	Price
Consult	Epoxy paint	+$150.00 list price add-on

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Summit Access Ramps with Side Rails



Summit Access Ramps without Side Rails

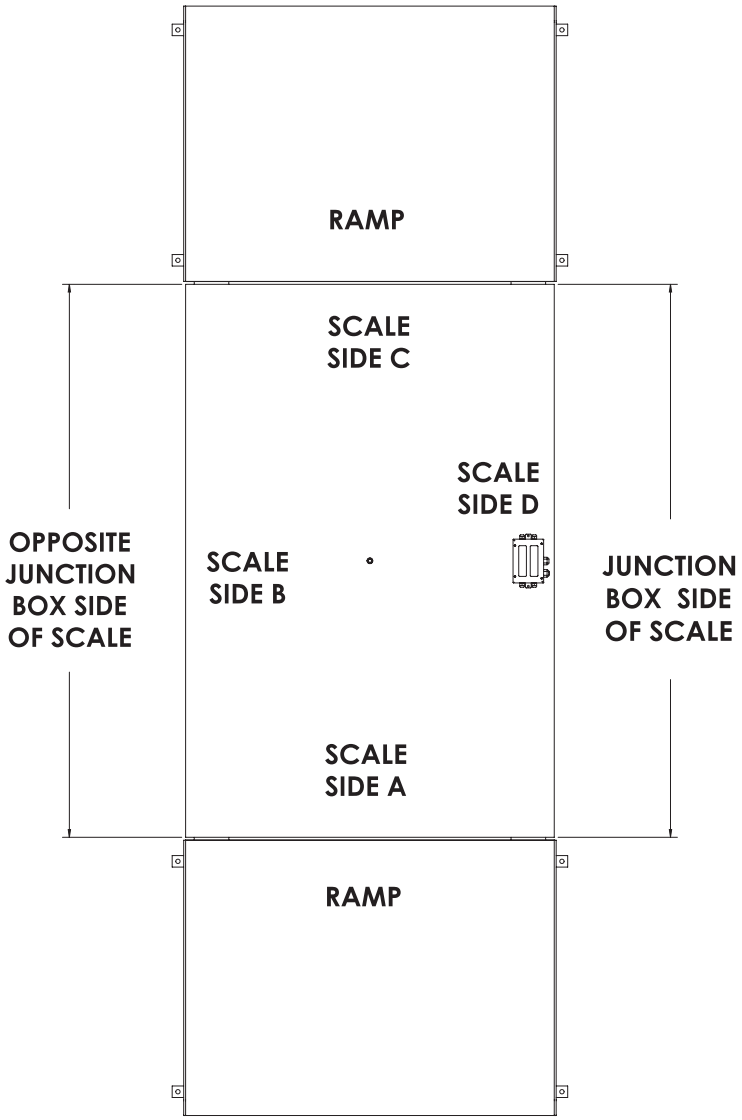
Part Number/Price

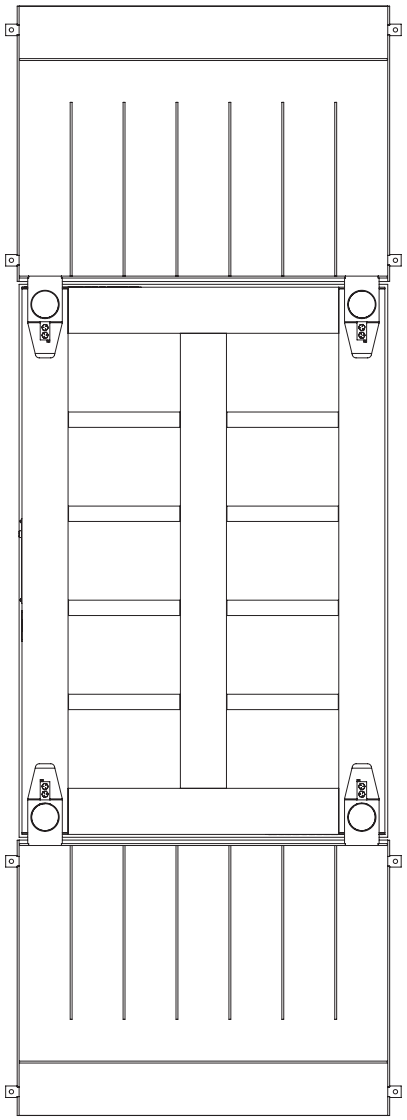
Part # with Side Rails	Part # without Side Rails	Size (W × L × H) (Diamond Treadplate Standard)	Ramp Angle of Incline	Est. Weight	Price
74953*	**224124**	3 ft × 3 ft × 3.625 in	6°	133 lb	$685.00
74954*	**224125**	4 ft × 3 ft × 3.625 in	6°	177 lb	$750.00
74955*	**224126**	5 ft × 3 ft × 3.625 in	6°	226 lb	$845.00
74956	**224127**	3 ft × 4 ft × 3.625 in	4°	177 lb	$800.00
74957	**224129**	4 ft × 4 ft × 3.625 in	4°	224 lb	$895.00
74958	**224130**	5 ft × 4 ft × 3.625 in	4°	272 lb	$950.00

** Not recommended for use with pallet jacks*

NOTE: Part numbered ramps are designed to fit scale on sides perpendicular to junction box. The junction box is always on longest side of scale unless specified differently.

Part numbered ramps are designed to fit scale sides A or C; if you need a ramp to fit scale side B or D, please request a quote for a special ramp





Underdeck View

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Summit® 3000 Pit Frames



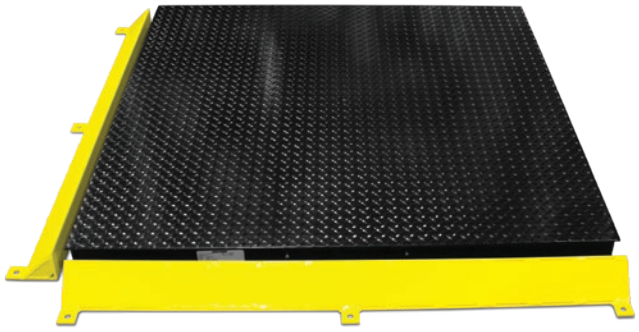
Part Number/Price

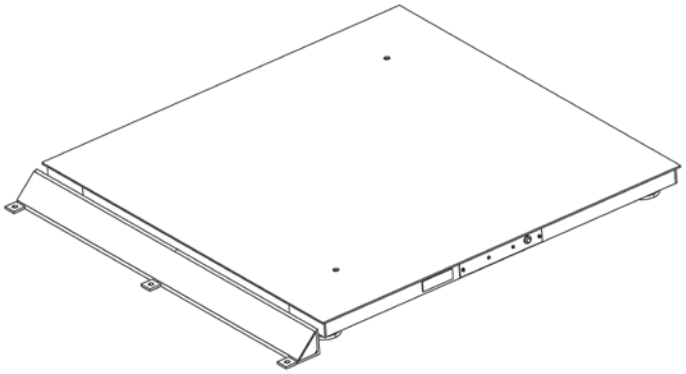
Part #	Size (W × L)	Est. Weight	Price
75036	3 × 3 ft	100 lb	$545.00
75037	4 × 4 ft	125 lb	$695.00
75040	5 × 5 ft	155 lb	$865.00
75038	4 × 5 ft	140 lb	$785.00
75039	4 × 6 ft	157 lb	$865.00

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Bumper Guards

Option A





Anchor bolt size required:
1/2 in dia (not included)

Construction:
RoughDeck® HP and HP-H versions (mild steel, painted safety yellow)
RoughDeck SS/HE (304 stainless steel)

Part Number/Price

Length	RoughDeck HP	Price Each	RoughDeck SS/HE	Price Each	RoughDeck HP-H	Price Each
2.5 ft	**86815**	$155.00	**86824**	$270.00	**86833**	$270.00
3.0 ft	**86816**	$190.00	**86825**	$320.00	**86834**	$320.00
4.0 ft	**86817**	$250.00	**86826**	$425.00	**86835**	$425.00
5.0 ft	**86818**	$315.00	**86827**	$530.00	**86836**	$530.00
6.0 ft	**86819**	$375.00	**86828**	$635.00	**86837**	$635.00
7.0 ft	**86820**	$435.00	**86829**	$740.00	**86838**	$740.00
8.0 ft	**86821**	$495.00	**86830**	$845.00	**86839**	$845.00
9.0 ft	**86822**	$565.00	**86831**	$950.00	**86840**	$950.00
10.0 ft	**86823**	$625.00	**86832**	$1,060.00	**86841**	$1,060.00

Accessories

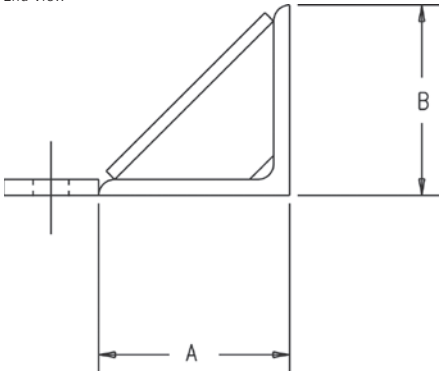
Part #	Description	Price
18777	Floor anchor plates, mild steel (set of two), RoughDeck HP	$40.00
18778	Floor anchor plates, stainless steel (set of two), RoughDeck SS/HE	$55.00
40387	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 20,000 lb	$55.00
40388	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 30,000 lb	$55.00

Dimensions

Model	A	B
RoughDeck HP	3 in	3 in
RoughDeck SS/HE	3 in	3 in
RoughDeck HP-H	4 in	4 in

Note: 1 in=25.4 mm

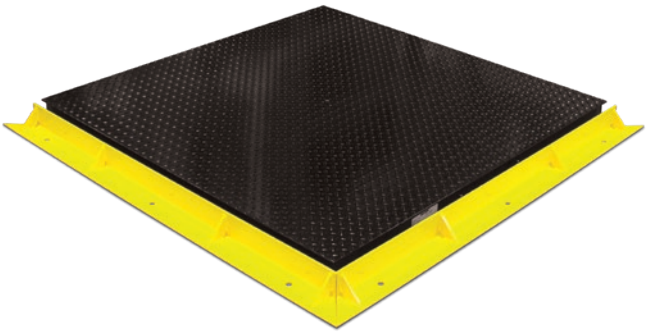
End View

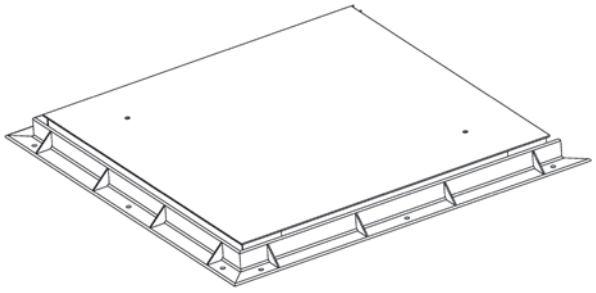


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Bumper Guards

Option B





Note: If you plan to surround scale on all four sides with bumper guards, option B, please contact factory as a special bumper guard must be made to accommodate the home run cable exit.

Anchor bolt size required:
1/2 in dia (not Included)

Construction:
RoughDeck® HP and HP-H versions
(mild steel, painted safety yellow)
RoughDeck SS/HE (304 stainless steel)

Part Number/Price

Length	RoughDeck HP	Price Each	RoughDeck SS/HE	Price Each	RoughDeck HP-H	Price Each
2.5 ft	**86843**	$150.00	**86852**	$220.00	**86861**	$220.00
3.0 ft	**86844**	$185.00	**86853**	$265.00	**86862**	$265.00
4.0 ft	**86845**	$245.00	**86854**	$350.00	**86863**	$350.00
5.0 ft	**86846**	$300.00	**86855**	$435.00	**86864**	$435.00
6.0 ft	**86847**	$360.00	**86856**	$525.00	**86865**	$525.00
7.0 ft	**86848**	$425.00	**86857**	$610.00	**86866**	$610.00
8.0 ft	**86849**	$480.00	**86858**	$695.00	**86867**	$695.00
9.0 ft	**86850**	$540.00	**86859**	$745.00	**86868**	$745.00
10.0 ft	**86851**	$595.00	**86860**	$870.00	**86869**	$870.00

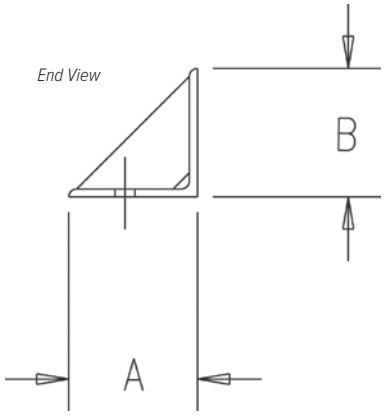
Accessories

Part #	Description	Price
18777	Floor anchor plates, mild steel (set of two), RoughDeck HP	$40.00
18778	Floor anchor plates, stainless steel (set of two), RoughDeck SS/HE	$55.00
40387	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 20,000 lb	$55.00
40388	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 30,000 lb	$55.00

Dimensions

Model	A	B
RoughDeck HP	3 in	3 in
RoughDeck SS/HE	3 in	3 in
RoughDeck HP-H	4 in	4 in

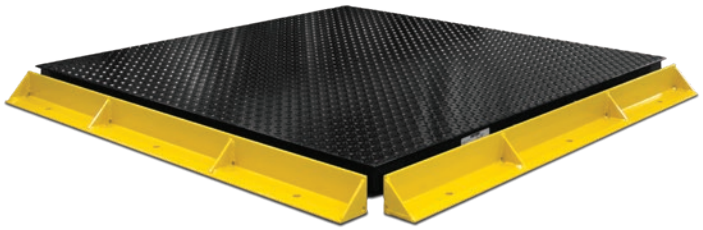
Note: 1 in=25.4 mm

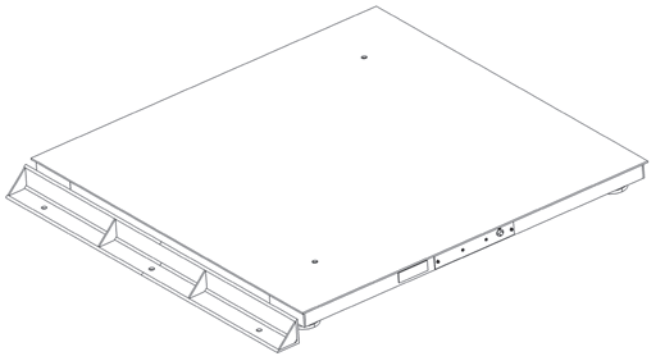


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Bumper Guards

Option C





Anchor bolt size required:
1/2 in dia (not included)

Construction:
RoughDeck® HP and HP-H versions
(mild steel, painted safety yellow)
RoughDeck SS/HE
(304 stainless steel)

Part Number/Price

Length	RoughDeck HP	Price Each	RoughDeck SS/HE	Price Each	RoughDeck HP-H	Price Each
2.5 ft	**86870**	$100.00	**86879**	$225.00	**86888**	$225.00
3.0 ft	**86871**	$130.00	**86880**	$275.00	**86889**	$275.00
4.0 ft	**86872**	$160.00	**86881**	$370.00	**86890**	$370.00
5.0 ft	**86873**	$200.00	**86882**	$455.00	**86891**	$455.00
6.0 ft	**86874**	$245.00	**86883**	$545.00	**86892**	$545.00
7.0 ft	**86875**	$280.00	**86884**	$635.00	**86893**	$635.00
8.0 ft	**86876**	$325.00	**86885**	$735.00	**86894**	$735.00
9.0 ft	**86877**	$360.00	**86886**	$820.00	**86895**	$820.00
10.0 ft	**86878**	$400.00	**86887**	$910.00	**86896**	$910.00

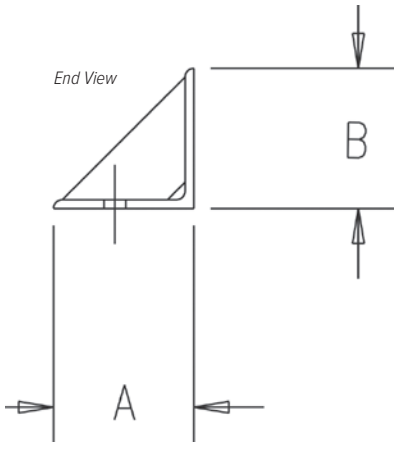
Accessories

Part #	Description	Price
18777	Floor anchor plates, mild steel (set of two), RoughDeck HP	$40.00
18778	Floor anchor plates, stainless steel (set of two), RoughDeck SS/HE	$55.00
40387	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 20,000 lb	$55.00
40388	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 30,000 lb	$55.00

Dimensions

Model	A	B
RoughDeck HP	3 in	3 in
RoughDeck SS/HE	3 in	3 in
RoughDeck HP-H	4 in	4 in

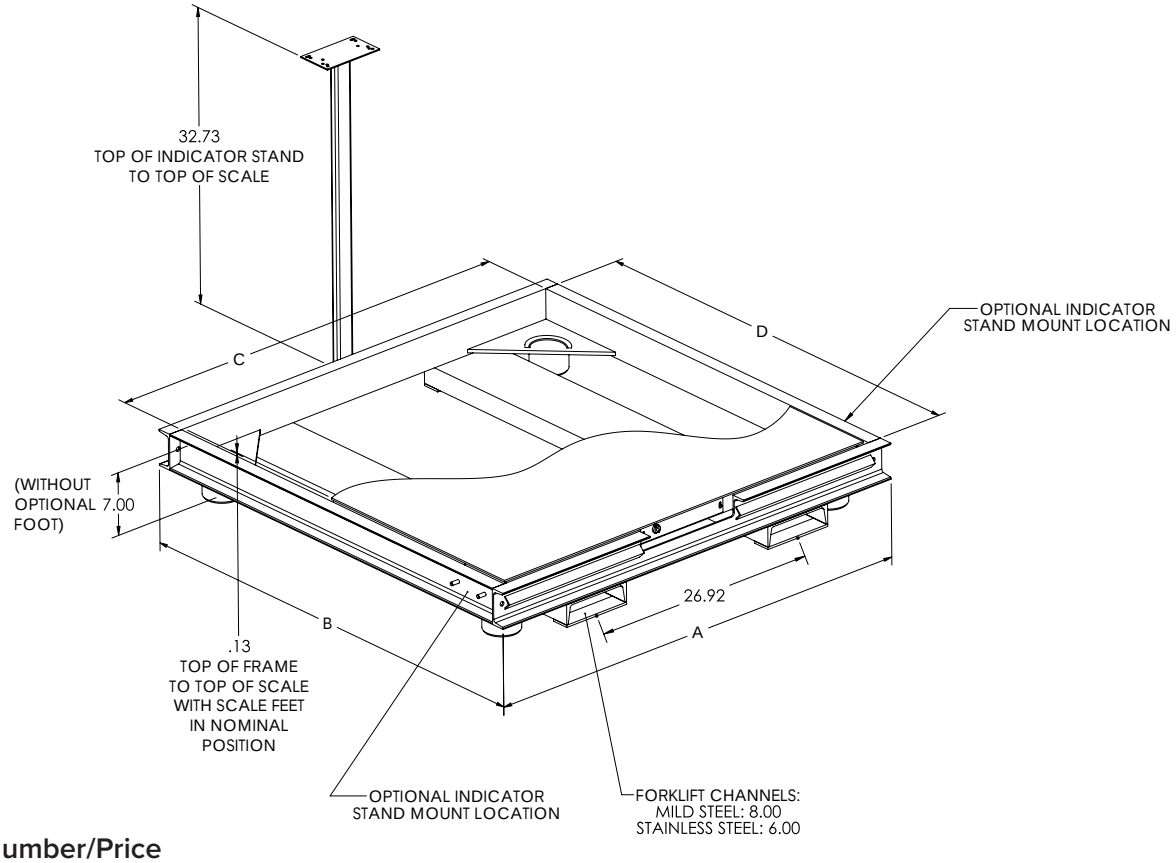
Note: 1 in=25.4 mm



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RoughDeck® HP and SS

Forklift Portability Frames



Part Number/Price

Part #	Size (W × L)	Est. Weight	Price
RoughDeck HP Portability Frames			
164492	4 × 4 ft, up to 10,000 lb capacity, floor stand for indicator 36.3 in high, indicator stand mounting bracket	275 lb	$1,485.00
164493	5 × 5 ft, up to 10,000 lb capacity, floor stand for indicator 36.3 in high, indicator stand mounting bracket	400 lb	$1,625.00
RoughDeck SS Portability Frames			
164494	4 × 4 ft, up to 10,000 lb capacity, floor stand for indicator 36.3 in high, indicator stand mounting bracket	275 lb	$4,365.00
164495	5 × 5 ft, up to 10,000 lb capacity, floor stand for indicator 36.3 in high, indicator stand mounting bracket	400 lb	$4,760.00

NOTE: Indicator stand mount bracket works with 120/120 Plus, 882IS/882IS Plus, 882IS/882IS Plus w/battery, 880/880 Plus, 480/480 Plus, 482/482 Plus, 680 Synergy

NOTE: Consult factory if you intend on using with a pallet jack

Options

Part #	Size (L × W)	Est. Weight	Price
Options			
74574	SST, captured ball foot 3.00 in diameter 1/2-20 UNF thread with jam nut	3.0 lb	$80.00

Dimensions

Portability Frame		
4 × 4 ft		
A	Mild steel: 51.92 in	Stainless steel: 52.75 in
B	Mild steel: 51.92 in	Stainless steel: 52.75 in
C	48.75 in	
D	48.75 in	
5 × 5 ft		
A	Mild steel: 63.92 in	Stainless steel: 64.75 in
B	Mild steel: 63.92 in	Stainless steel: 64.75 in
C	60.75 in	
D	60.75 in	
Distance from floor to inside of strap on the fork entry (without optional foot) (4 × 4 ft)		
	Mild steel: 3/4 in	Stainless steel: 1/2 in
Distance from inside of strap to top of the fork entry (without optional foot) (5 × 5 ft)		
	Mild steel: 2 in	Stainless steel: 2 1/4 in

Note: 1 in=25.4 mm

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RoughDeck® HP

Forklift SENDit Portability Frames, Non-NTEP



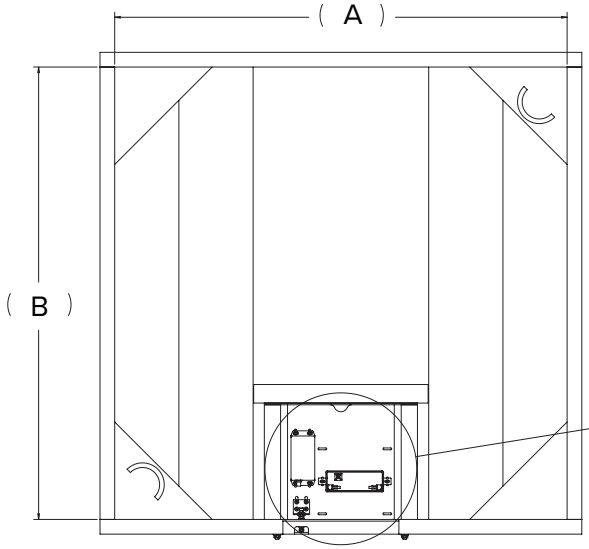
Standard Features

- Wireless connection from scale to operator display
- Works with any basic digital weight indicator
- Excitation to the load cell(s) provided by the transmitter, not the indicator
- Transmitter excitation voltage: +4.8 VDC, 16 × 350 ohm or 32 × 700 ohm load cells
- Each transmitter/receiver set is individually paired and will not interfere with another set

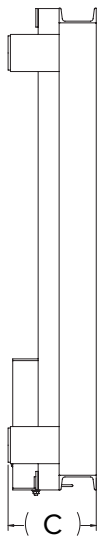


Scale is sold separately









Part Number/Price

Part #	Size (W × L)	Est. Weight	Price
Roughdeck HP Portability Frame			
210900	Roughdeck HP 4 × 4 ft, up to 10,000 lb capacity, frame only	350 lb	$1,625.00
210901	Roughdeck HP 5 × 5 ft, up to 10,000 lb capacity, frame only	395 lb	$1,760.00
SENDit Wireless Electronics Kit			
210898	SENDit wireless load cell interface kit, non-NTEP, indicator not included (customer to supply)	-	$3,350.00

Options/Accessories

Part #	Description	Price
162173	Battery, 6 V SLA	$155.00
74574	Foot	$80.00

Dimensions

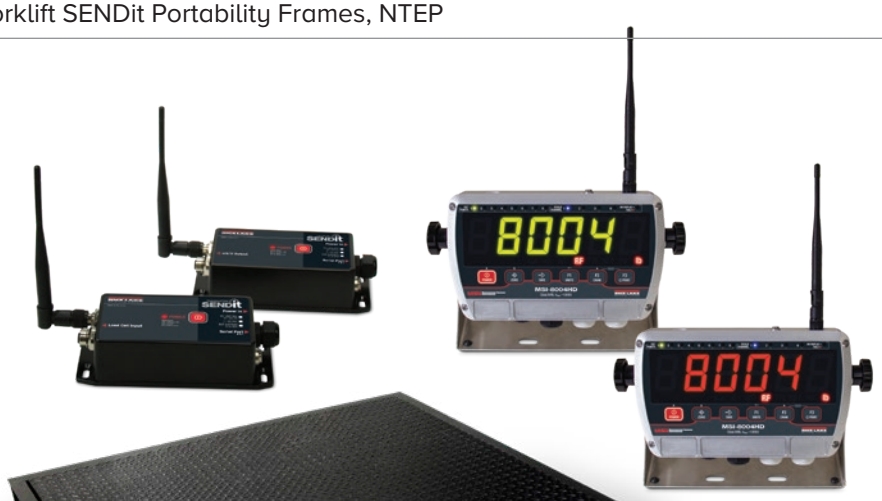
Scale Size	4 × 4 ft	5 × 5 ft
A	48.75 in	60.75 in
B	48.75 in	60.75 in
C	9.50 in	9.50 in

Note: 1 in=25.4 mm

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RoughDeck® HP

Forklift SENDit Portability Frames, NTEP



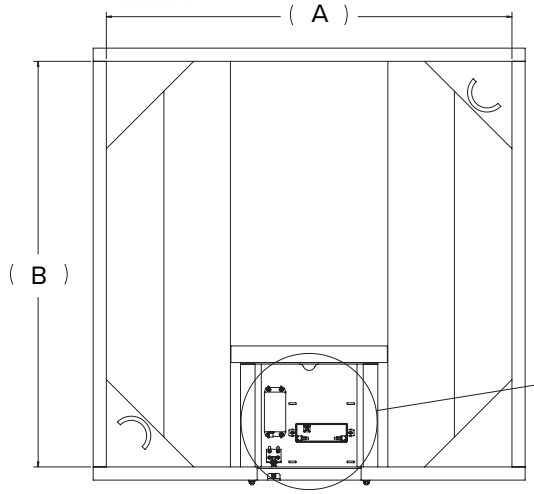


Scale is sold separately

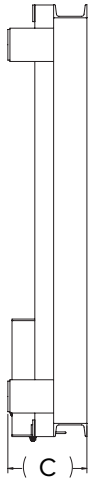


Standard Features

- Wireless connection from scale to operator display
- Excitation to the load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired and will not interfere with another set
- Transmitter excitation voltage: +4.8 VDC, 16 × 350 ohm or 32 × 700 ohm load cells
- Estimated battery life of 100 hours
- Two set points with red/green display for operator verification
- Optional audible alarm







Approvals

Part Number/Price

Part #	Size (W × L)	Est. Weight	Price
Roughdeck HP Portability Frame			
210900	Roughdeck HP 4 × 4 ft, up to 10,000 lb capacity, frame only	350 lb	$1,625.00
210901	Roughdeck HP 5 × 5 ft, up to 10,000 lb capacity, frame only	395 lb	$1,760.00
SENDit Wireless Electronics Kit			
210899	Sendit wireless load cell interface kit, NTEP, Includes one 8004HD display	-	$4,215.00

Options/Accessories

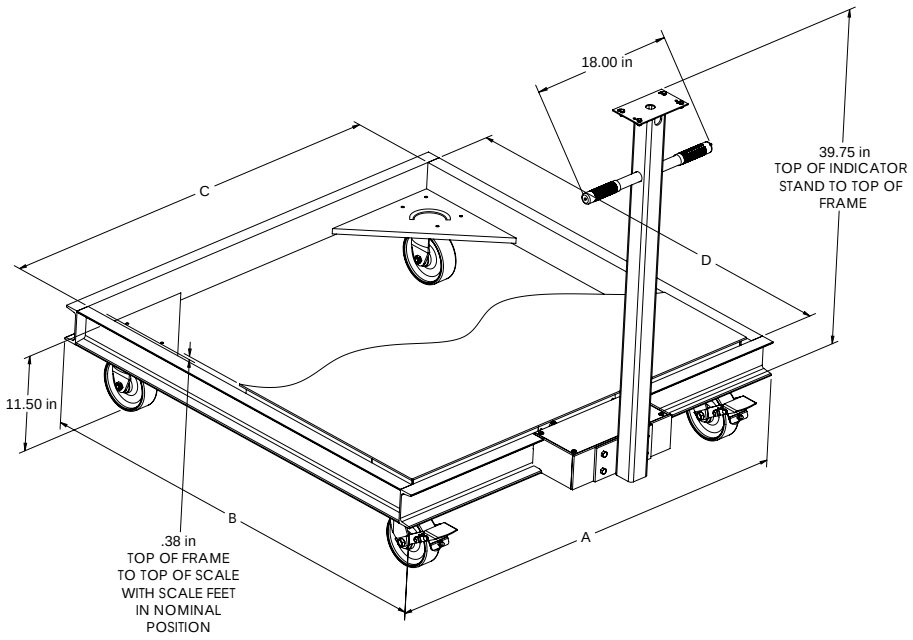
Part #	Description	Price
162173	Battery, 6 V SLA	$155.00
74574	Foot	$80.00

Dimensions

Scale Size	4 × 4 ft	5 × 5 ft
A	48.75 in	60.75 in
B	48.75 in	60.75 in
C	9.50 in	9.50 in

Note: 1 in=25.4 mm

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Standard Features

- Painted mild steel
- Indicator stand fits 480 Legend® weight indicators
- Two rigid forged steel casters, two swivel forged steel caster with lock on back
- Casters for scales 1,000 to 5,000 lb are rated for 4,000 lb each

Part Number/Price

Part #	Size (W × L × H)	Est. Weight	Price
RoughDeck HP Caster Portability Frames			
157785	2.5 × 2.5 ft, for RoughDeck HP 1,000 to 5,000 lb	220 lb	$2,500.00
157791	3 × 3 ft, for RoughDeck HP 1,000 to 5,000 lb	240 lb	$2,500.00
157792	4 × 4 ft, for RoughDeck HP 1,000 to 5,000 lb	260 lb	$2,500.00
157793	4 × 4 ft, for RoughDeck HP 10,000 lb	260 lb	$2,950.00
RoughDeck HP Caster Portability Frame with Conductive Wheels for use with 882IS			
199096	2.5 x 2.5 ft, for RoughDeck HP 1,000 to 5,000 lb	220 lb	$2,800.00
199097	3 x 3 ft, for RoughDeck HP 1,000 to 5,000 lb	240 lb	$2,800.00
199098	4 x 4 ft, for RoughDeck HP 1,000 to 5,000 lb	260 lb	$2,800.00

NOTE: Indicator stand mount bracket works with 120/120 Plus, 882IS/882IS Plus, 882IS/882IS Plus w/battery, 880/880 Plus, 480/480 Plus, 482/482 Plus, 680 Synergy

Dimensions

Caster Portability Frame	
2.5 × 2.5 ft (1,000 to 5,000 lb)	
A	33.92
B	33.92
C	30.75
D	30.75
3 × 3 ft (1,000 to 5,000 lb)	
A	39.92
B	39.92
C	36.75
D	36.75
4 × 4 ft (1,000 to 5,000 lb)	
A	51.92
B	51.92
C	48.75
D	48.75
4 × 4 ft (10,000 lb)	
A	51.92
B	51.92
C	48.75
D	48.75

Note: 1 in=25.4 mm

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RoughDeck® HP

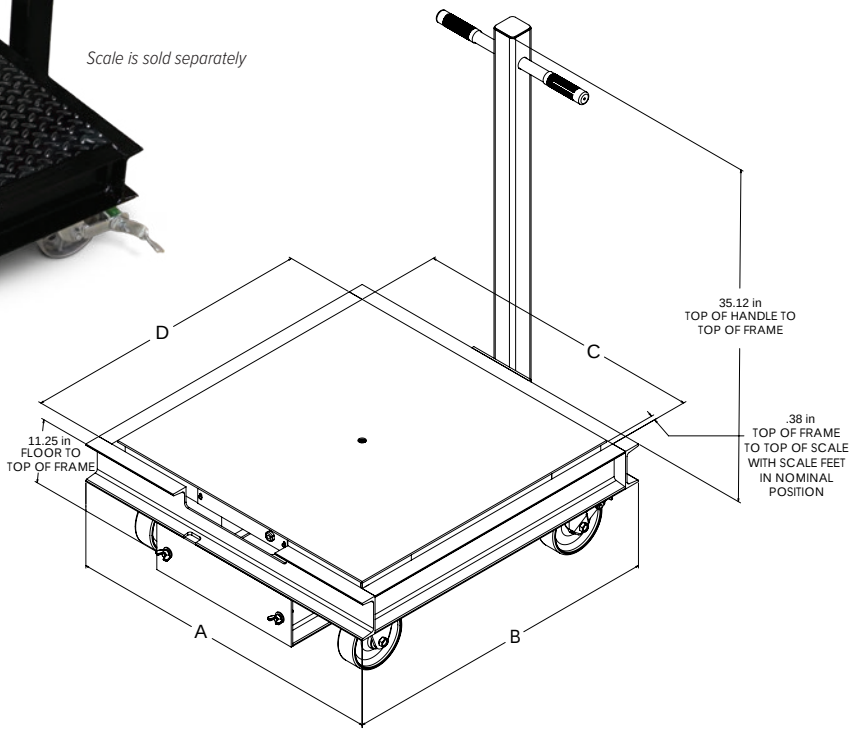
Caster SENDit Portability Frames, Non-NTEP



Scale is sold separately

Standard Features

- Wireless connection from scale to operator display
- Works with any basic digital weight indicator
- Excitation to the load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired and will not interfere with another set
- Transmitter excitation voltage: +4.8 VDC, 16 × 350 ohm or 32 × 700 ohm load cells



Part Number/Price

Part #	Size (W × L)	Est. Weight	Price
RoughDeck HP Caster Portability Frame			
210902	2.5 × 2.5 ft, up to 5,000 lb capacity, two rigid forged steel caster on front, two swivel forged steel caster on back with drawer for SENDit, frame only	315 lb	$2,700.00
210903	3 × 3 ft, up to 5,000 lb capacity, two rigid forged steel caster on front, two swivel forged steel caster on back with drawer for SENDit, frame only	330 lb	$2,700.00
210904	4 × 4 ft, up to 5,000 lb capacity, two rigid forged steel caster on front, two swivel forged steel caster on back with drawer for SENDit, frame only	355 lb	$2,700.00
210905	4 × 4 ft, up to 10,000 lb capacity, two rigid forged steel caster on front, two swivel forged steel caster on back with drawer for SENDit, frame only	355 lb	$3,150.00
SENDit Wireless Electronics Kit			
210898	SENDit wireless load cell interface kit, non-NTEP, indicator not included (customer to supply)	-	$3,350.00

Options/Accessories

Part #	Description	Price
162173	Battery, 6 V SLA	$155.00

Dimensions

Scale Size	2.5 × 2.5 ft	3 × 3 ft	4 × 4 ft
A	33.92 in	39.92 in	51.92 in
B	33.92 in	39.92 in	51.92 in
C	30.75 in	36.75 in	48.75 in
D	30.75 in	36.75 in	48.75 in

Note: 1 in=25.4 mm

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RoughDeck® HP

Caster SENDit Portability Frames, NTEP

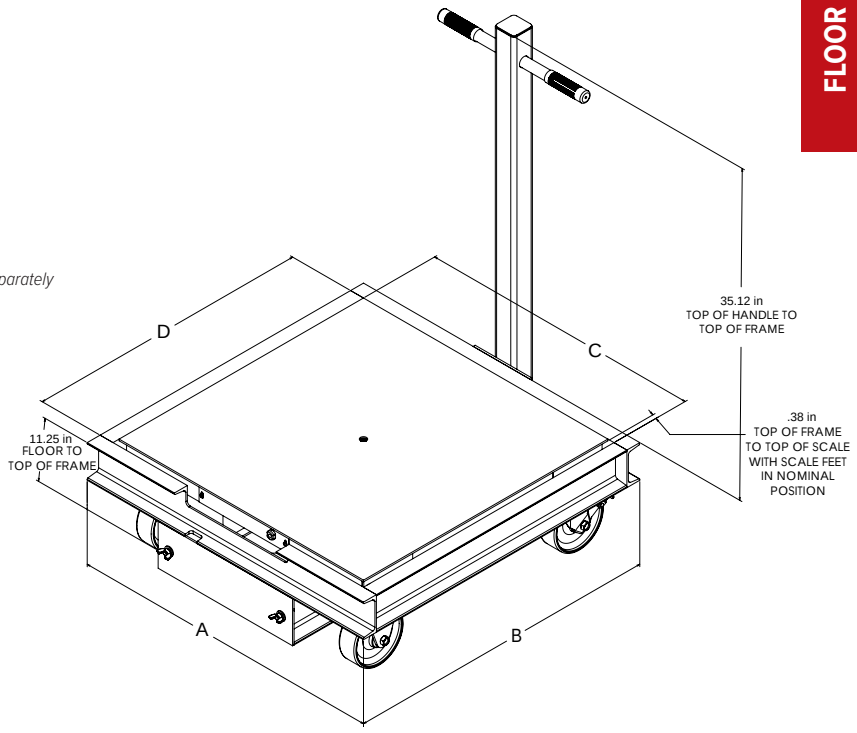




Scale is sold separately

Standard Features

- Wireless connection from scale to operator display
- Excitation to the load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired and will not interfere with another set
- Transmitter excitation voltage: +4.8 VDC, 16 × 350 ohm or 32 × 700 ohm load cells
- Estimated battery life of 100 hours
- Two set-points with red/green display for operator verification
- Optional audible alarm



Approvals

Part Number/Price

Part #	Size (W × L)	Est. Weight	Price
RoughDeck HP Caster Portability Frame			
210902	2.5 × 2.5 ft, up to 5,000 lb capacity, two rigid forged steel caster on front, two swivel forged steel caster on back with drawer for SENDit, frame only	315 lb	$2,700.00
210903	3 × 3 ft, up to 5,000 lb capacity, two rigid forged steel caster on front, two swivel forged steel caster on back with drawer for SENDit, frame only	330 lb	$2,700.00
210904	4 × 4 ft, up to 5,000 lb capacity, two rigid forged steel caster on front, two swivel forged steel caster on back with drawer for SENDit, frame only	355 lb	$2,700.00
210905	4 × 4 ft, up to 10,000 lb capacity, two rigid forged steel caster on front, two swivel forged steel caster on back with drawer for SENDit, frame only	355 lb	$3,150.00
SENDit Wireless Electronics Kit			
210899	SENDit wireless load cell interface kit, NTEP, includes one 8004HD display	-	$4,215.00

Options/Accessories

Part #	Description	Price
162173	Battery, 6 V SLA	$155.00

Dimensions

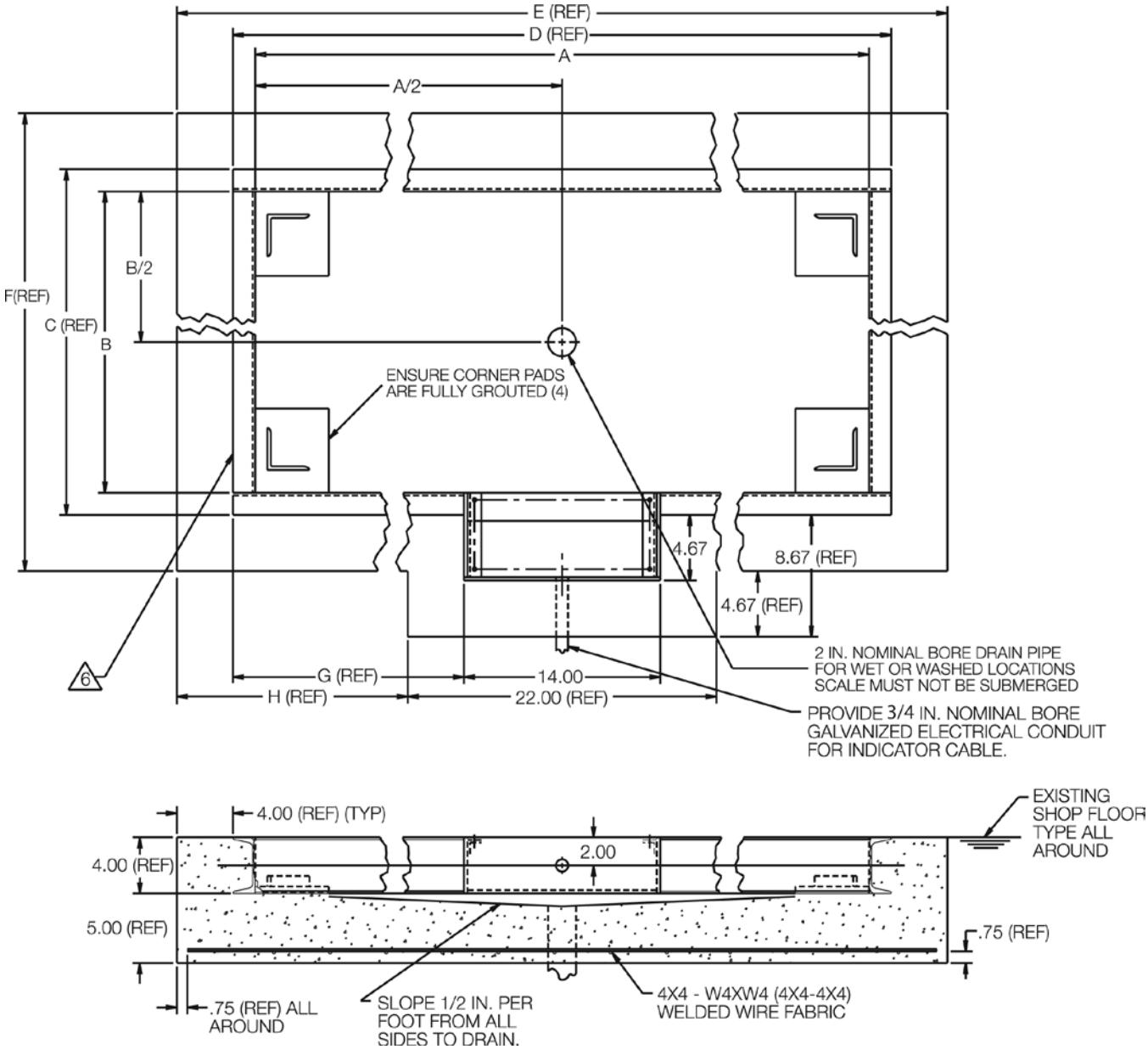
Scale Size	2.5 × 2.5 ft	3 × 3 ft	4 × 4 ft
A	33.92 in	39.92 in	51.92 in
B	33.92 in	39.92 in	51.92 in
C	30.75 in	36.75 in	48.75 in
D	30.75 in	36.75 in	48.75 in

Note: 1 in=25.4 mm

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RoughDeck® HP, SS & HE

Pit Frame Concrete Details*



Dimensions

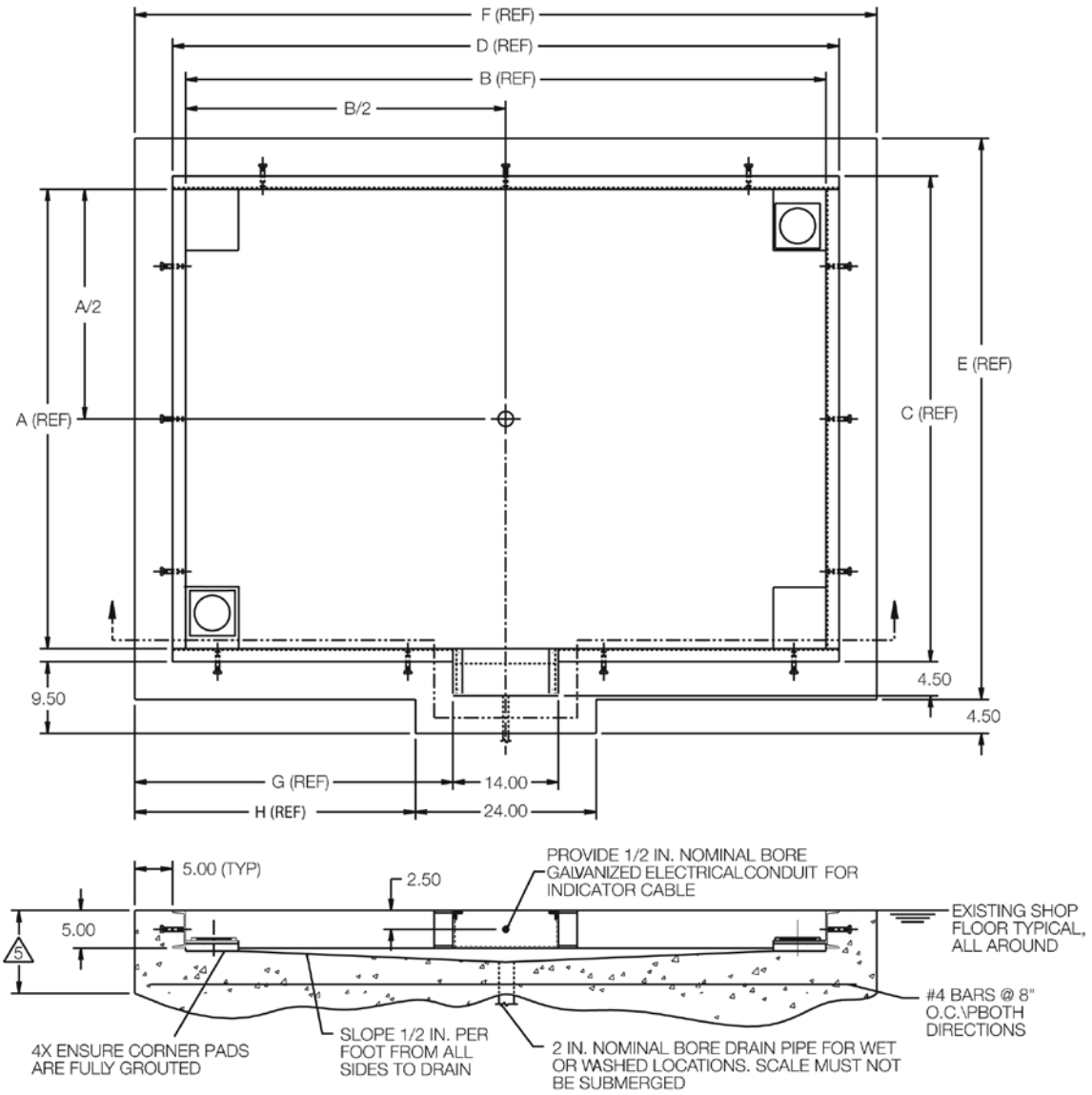
Scale Size	2.5 × 2.5 ft	3 × 3 ft	4 × 4 ft	5 × 5 ft	4 × 5 ft	4 × 6 ft	5 × 6 ft	5 × 7 ft
A	30.75	36.75	48.75	60.75	60.75	72.75	72.75	84.75
B	30.75	36.75	48.75	60.75	48.75	48.75	60.75	60.75
C	33.92	39.92	51.92	63.92	51.92	51.92	63.92	63.92
D	33.92	39.92	51.92	63.92	63.92	75.92	75.92	87.92
E	41.92	47.95	59.92	71.92	71.92	83.92	83.92	95.92
F	41.92	47.95	59.92	71.92	59.92	59.92	71.92	71.92
G	9.96	12.96	18.96	24.96	24.96	30.96	30.96	36.96
H	9.96	12.96	18.96	24.96	24.96	30.96	30.96	36.96

All dimensions are shown in inches. Drawing #S2944–Rev. D

** Drawings are for standard catalog part numbered scales.*

1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Dimensions shown assume firm, stable soil conditions. When soil conditions are not adequate, place foundation at sufficient depth.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells, and that junction box be mounted remotely in a dry location.
5. Wire mesh to have minimum 0.75 in cover bottom and sides.
6. On stainless steel versions, two pieces of 2 in angle will be substituted for 4 in channel.

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Dimensions

Scale Size	4 × 4 ft	4 × 5 ft	4 × 6 ft	4 × 7 ft	5 × 5 ft	5 × 6 ft	5 × 7 ft
A	49.00	49.00	49.00	49.00	61.00	61.00	61.00
B	49.00	61.00	73.00	85.00	61.00	73.00	85.00
C	52.50	52.50	52.50	52.50	64.50	64.50	64.50
D	52.50	64.50	76.50	88.50	64.50	76.50	88.50
E	62.50	62.50	62.50	62.50	74.50	74.50	74.50
F	62.50	74.50	86.50	98.50	74.50	86.50	98.50
G	24.25	30.25	36.25	42.25	30.25	36.25	42.25
H	19.25	25.25	31.35	37.25	25.25	31.35	37.25

Scale Size	6 × 6 ft	6 × 7 ft	6 × 8 ft	7 × 9 ft	7 × 10 ft	8 × 10 ft
A	73.00	73.00	73.00	85.00	85.00	97.00
B	73.00	85.00	97.00	109.00	121.00	121.00
C	76.50	76.50	76.50	88.50	88.50	100.50
D	76.50	88.50	100.50	112.50	124.50	124.50
E	86.50	86.50	86.50	98.50	98.50	110.50
F	86.50	98.50	110.50	122.50	134.50	134.50
G	36.25	42.25	48.25	54.25	60.25	60.25
H	31.25	37.25	43.25	49.25	55.25	55.25

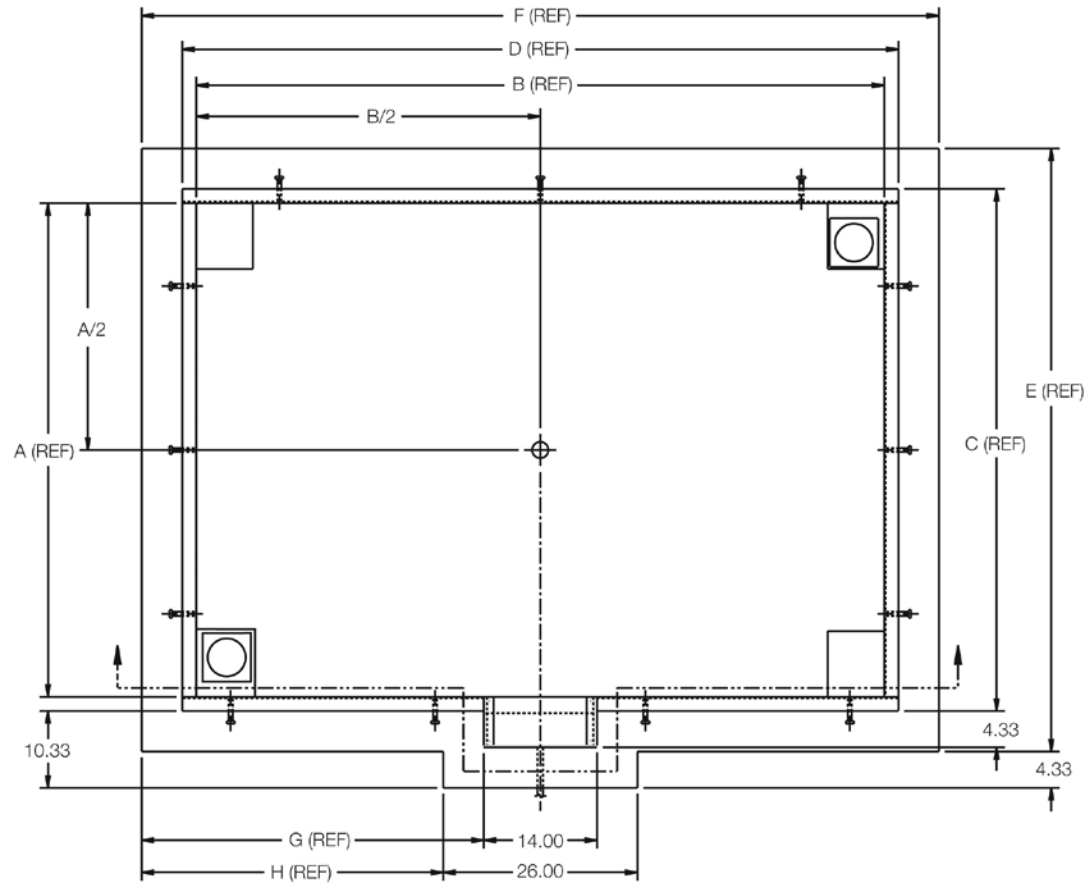
1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Before installing pit frame, ensure that proper sand (or soil) base is available under either existing concrete or new installation.
4. In wet or washdown applications, we recommend use of hermetically sealed load cells, and that junction box be mounted remotely in a dry location.
5. For required depth of slab, or rebar requirements specific to your application: proper engineering consultation is recommended.

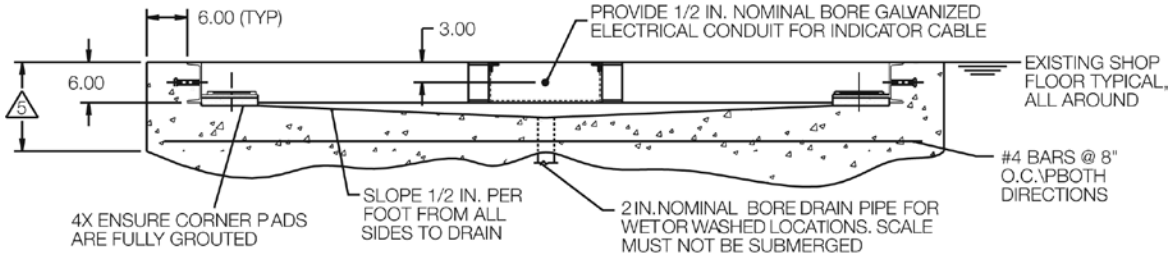
All dimensions are shown in inches. Drawing #S2944A–Rev. A
** Drawings are for standard catalog part numbered scales.*

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RoughDeck® HP-H

Pit Frame Concrete Details* – 30,000 lb Capacity





Dimensions

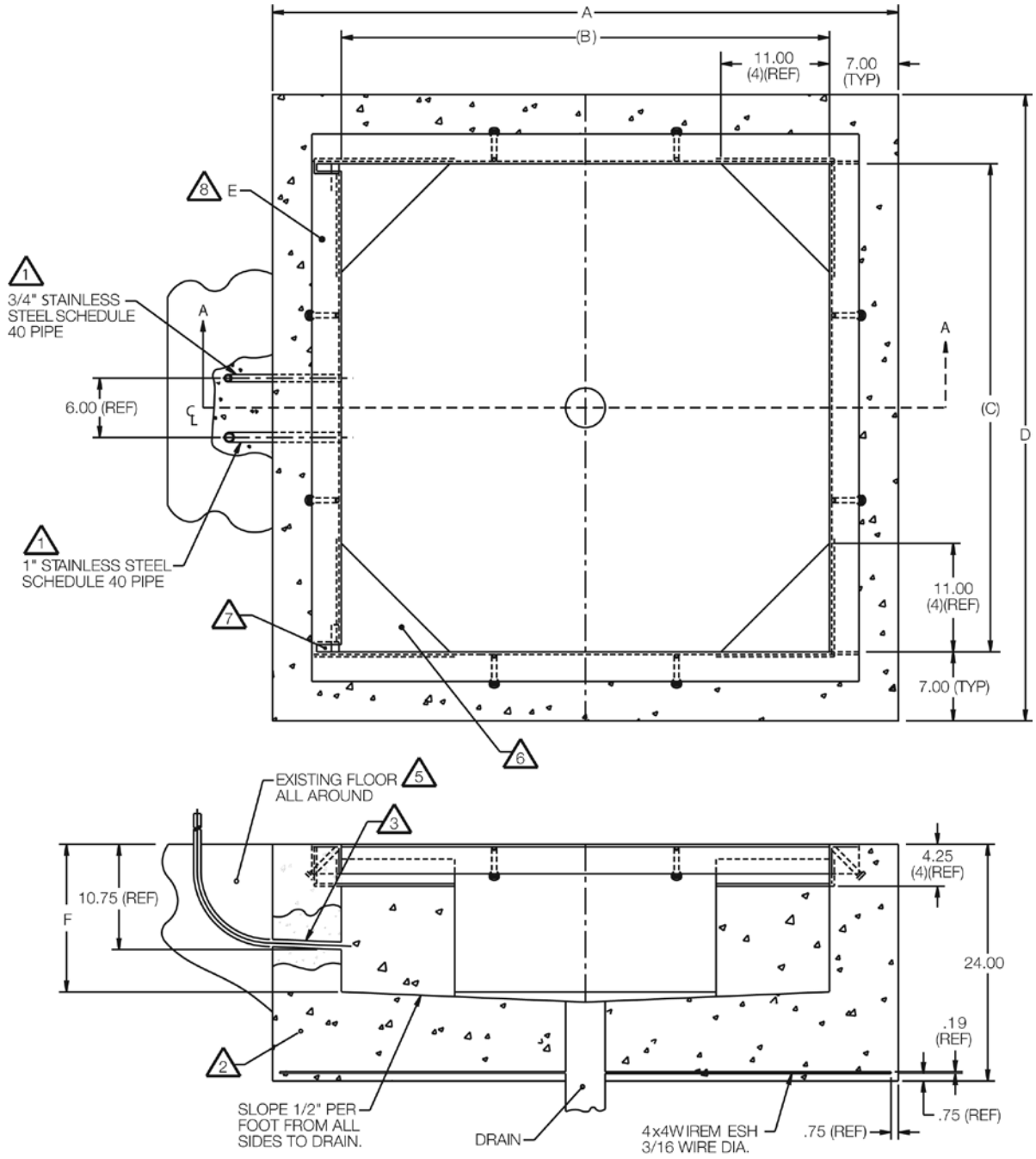
Scale Size	4 × 4 ft	5 × 4 ft	6 × 4 ft	7 × 4 ft	5 × 5 ft	6 × 5 ft	7 × 5 ft
A	49.00	49.00	49.00	49.00	61.00	61.00	61.00
B	49.00	61.00	73.00	85.00	61.00	73.00	85.00
C	52.84	52.84	52.84	52.84	64.84	64.84	64.84
D	52.84	64.84	76.84	88.84	64.84	76.84	88.84
E	64.84	64.84	64.84	64.84	76.84	76.84	76.84
F	64.84	76.84	88.84	100.84	76.84	88.84	100.84
G	25.42	31.42	37.42	43.42	31.42	37.42	43.42
H	19.42	25.42	31.42	37.42	25.42	31.42	37.42

Scale Size	6 × 6 ft	7 × 6 ft	8 × 6 ft	9 × 7 ft	10 × 7 ft	10 × 8 ft
A	73.00	73.00	73.00	85.00	85.00	97.00
B	73.00	85.00	97.00	109.00	121.00	121.00
C	76.84	76.84	76.84	88.84	88.84	100.84
D	76.84	88.84	100.84	112.84	124.84	124.84
E	88.84	88.84	88.84	100.84	100.84	112.84
F	88.84	100.84	112.84	112.84	136.84	136.84
G	37.42	43.42	49.42	55.42	61.42	61.42
H	31.42	37.42	43.42	49.42	55.42	55.42

1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Before installing pit frame, ensure that proper sand (or soil) base is available under either existing concrete or new installation.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells, and that junction box be mounted remotely in a dry location.
5. For required depth of slab, or rebar requirements specific to your application: proper engineering consultation is recommended.

All dimensions are shown in inches. Drawing #S2944B–Rev. A
** Drawings are for standard catalog part numbered scales.*

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Dimensions

Scale Size	4 × 4 ft	5 × 5 ft
A	63.06	75.06
B	49.06	61.06
C	49.00	61.06
D	63.00	75.00
E (PN)	41936	41397
F	15.00	16.75

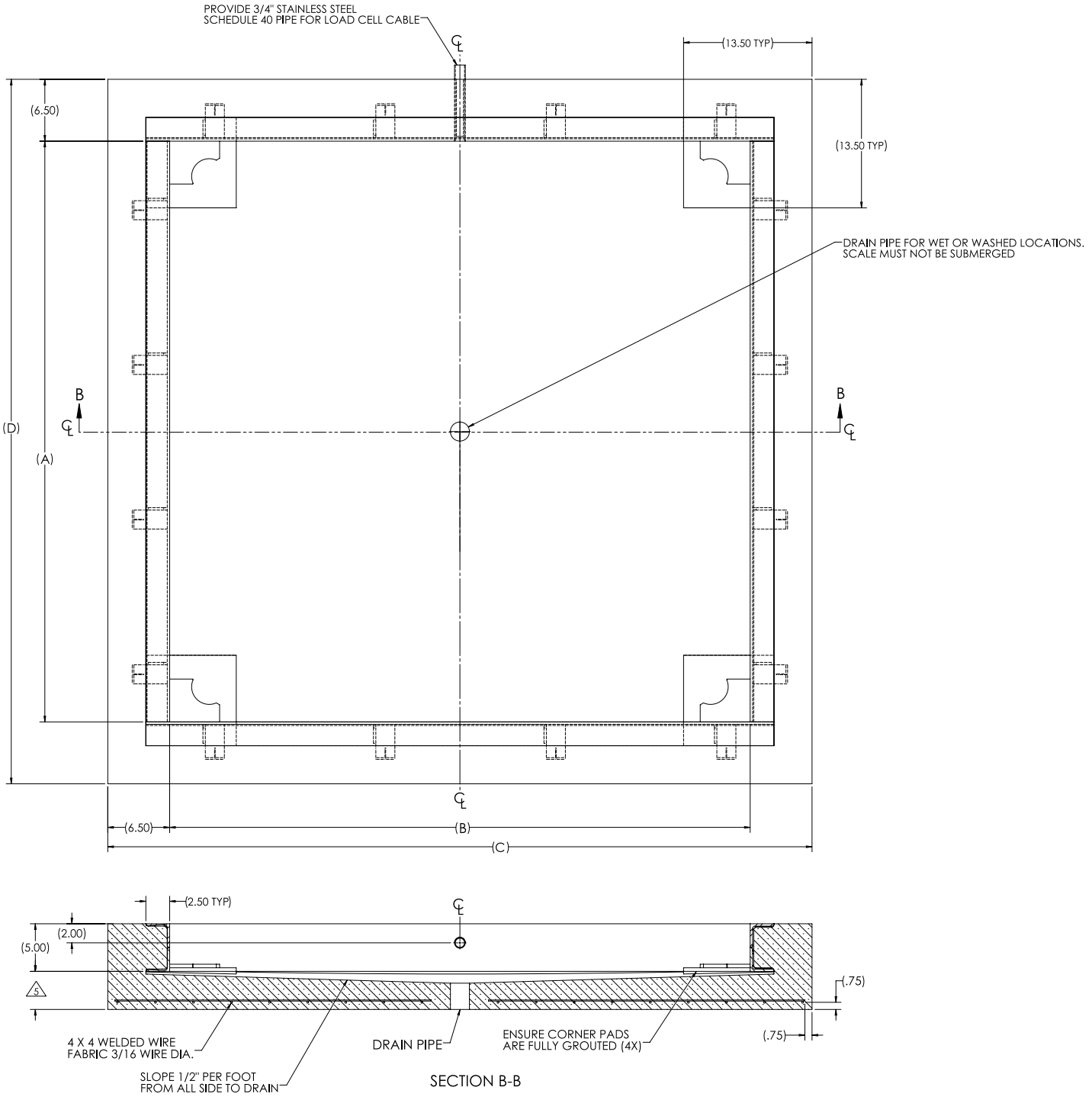
All dimensions are shown in inches. Drawing #S5158–Rev. B,
** Drawings are for standard catalog part numbered scales.*

1. Length of pipe is determined on site.
2. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
3. Slope pipe slightly for water drainage.
4. Allow concrete 7 days to cure (wet concrete periodically during this time).
5. Tie pit in with existing floor with rebar if required.
6. Ensure underside is supported with concrete or grout (plate is an integral part of frame).
7. Keep pocket free of concrete.
8. Coping must sit level in floor to allow proper operation of scale.

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RoughDeck® QC-X

Pit Frame Concrete Details*



Dimensions

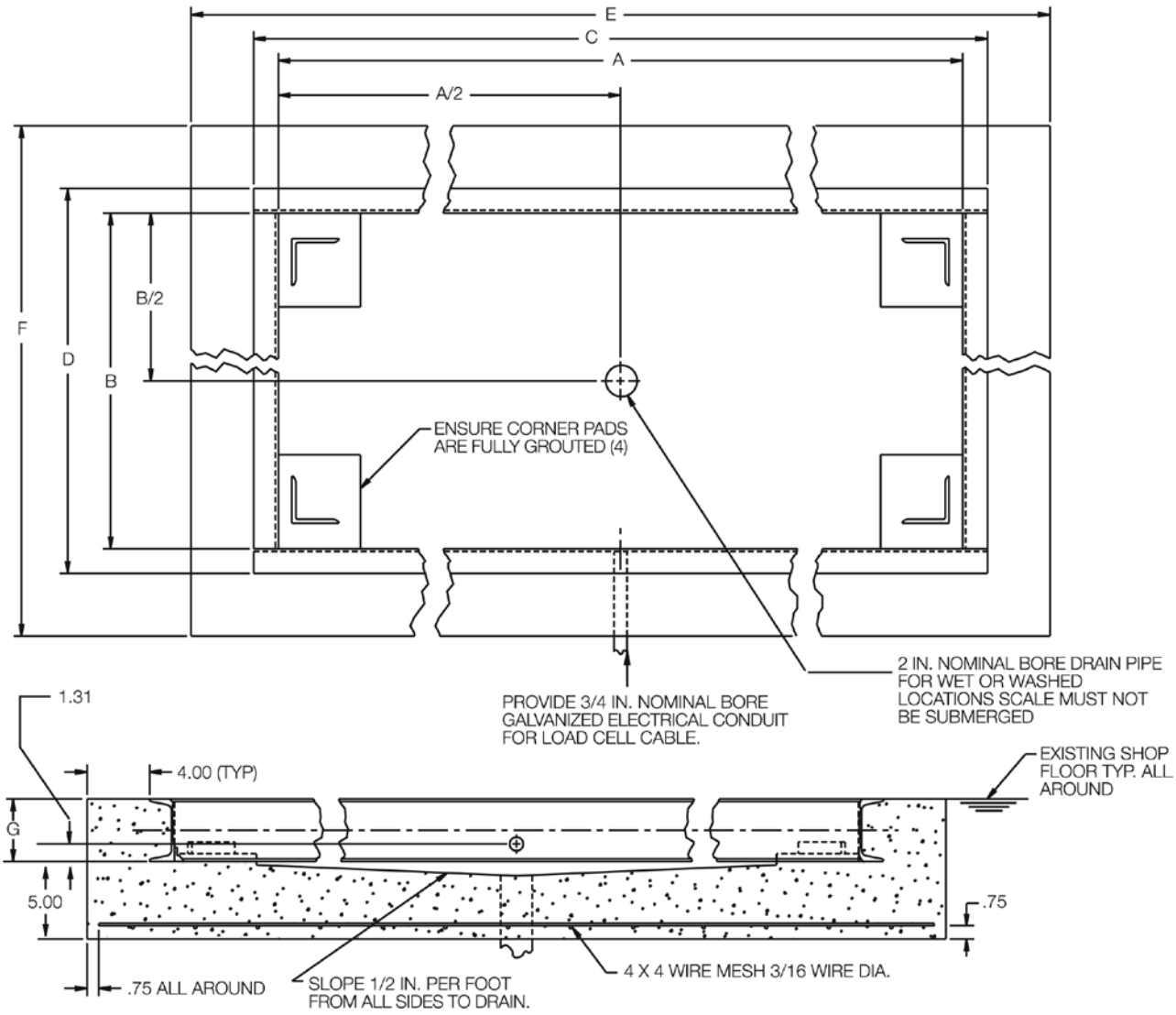
Dimensions				
Scale Size	**A**	**B**	**C**	**D**
4 × 4 ft	49.00	49.00	62.00	62.00
5 × 5 ft	61.00	61.00	74.00	74.00

All dimensions are shown in inches.

** Drawings are for standard catalog part numbered scales.*

1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Before installing pit frame, ensue that proper sand (or soil) base is available under either existing concrete or new installation.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells.
5. For required depth of slab, or rebar requirements specific to your application, proper engineering consultation is recommended.

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Dimensions

Scale Size	A	B	C	D	E	F	G
2.5 × 2.5 ft - 2,000 lb	30.75	31.00	34.75	35.00	42.75	43.00	4.00
3 × 3 ft - 2,000 lb	36.75	37.00	40.75	41.00	48.75	49.00	4.00
4 × 4 ft - 2,000 lb	48.75	49.00	52.75	53.00	60.75	61.00	4.00
4 × 4 ft - 5,000 lb	48.75	49.00	52.75	53.00	60.75	61.00	4.00
4 × 4 ft - 10,000 lb	48.75	49.00	53.75	54.00	61.75	62.00	5.00
4 × 5 ft - 2,000 lb	60.75	49.00	64.75	53.00	72.75	61.00	4.00
4 × 5 ft - 5,000 lb	60.75	49.00	65.75	54.00	73.75	62.00	5.00
4 × 5 ft - 10,000 lb	60.75	49.00	65.75	54.00	73.75	62.00	5.00
4 × 6 ft - 2,000 lb	72.75	49.00	77.75	54.00	85.75	62.00	5.00

Scale Size	A	B	C	D	E	F	G
4 × 6 ft - 5,000 lb	72.75	49.00	77.75	54.00	85.75	62.00	5.00
4 × 6 ft - 10,000 lb	72.75	49.00	78.75	55.00	86.75	63.00	6.00
5 × 5 ft - 2,000 lb	60.75	61.00	65.75	66.00	73.75	74.00	5.00
5 × 5 ft - 5,000 lb	60.75	61.00	65.75	66.00	73.75	74.00	5.00
5 × 5 ft - 10,000 lb	60.75	61.00	65.75	66.00	73.75	74.00	5.00
5 × 7 ft - 2,000 lb	84.75	61.00	90.75	67.00	98.75	75.00	6.00
5 × 7 ft - 5,000 lb	84.75	61.00	90.75	67.00	98.75	75.00	6.00
5 × 7 ft - 10,000 lb	84.75	61.00	90.75	67.00	98.75	75.00	6.00
6 × 6 ft - 5,000 lb	72.75	73.00	78.75	79.00	86.75	87.00	6.00
6 × 6 ft - 10,000 lb	72.75	73.00	78.75	79.00	86.75	87.00	6.00

All dimensions are shown in inches. Drawing #S6360A–Rev. D

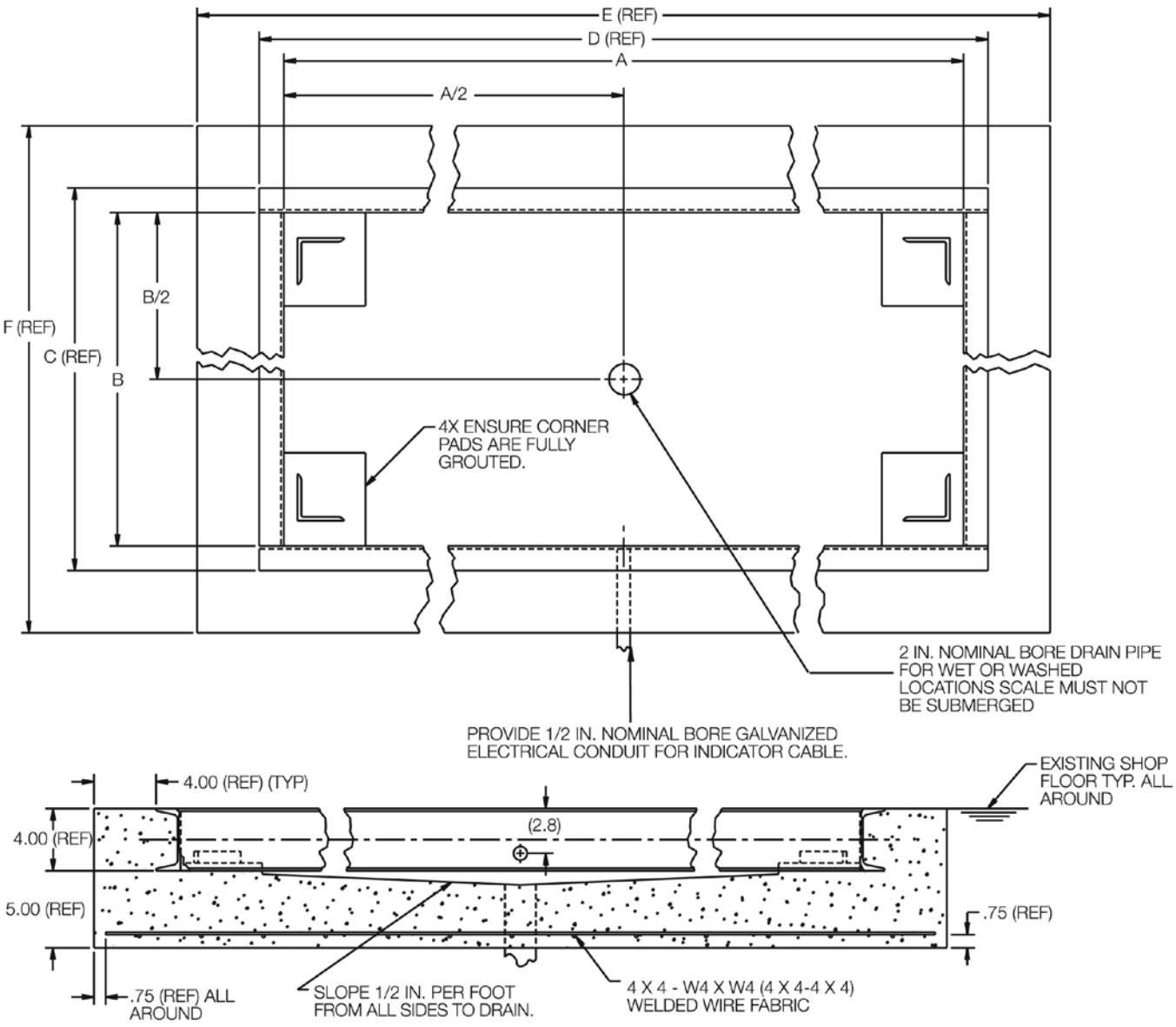
** Drawings are for standard catalog part numbered scales.*

1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Dimensions shown assume firm, stable soil conditions. When soil conditions are not adequate, place foundation at sufficient depth.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells, and that the junction box be mounted remotely in a dry location.
5. Wire mesh to have minimum 0.75 in cover bottom and sides.

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Summit® 3000

Pit Frame Concrete Details*



Dimensions

Scale Size	3 × 3 ft	4 × 4 ft	4 × 5 ft	4 × 6 ft	5 × 5 ft
A	36.75	48.75	60.75	72.75	60.75
B	36.75	48.75	48.75	48.75	60.75
C	39.92	51.92	51.92	51.92	63.92
D	39.92	51.92	63.92	75.92	63.92
E	47.92	59.92	71.92	83.92	71.92
F	47.92	59.92	59.92	59.92	71.92

All dimensions are shown in inches. Drawing #S77687.
** Drawings are for standard catalog part numbered scales.*

1. Use concrete of minimum yield strength 5,000 PSI or 6-bag mix.
2. Allow 7 days to cure (wet concrete periodically during this time).
3. Dimensions shown assume firm, stable soil conditions. When soil conditions are not adequate, place foundation at sufficient depth.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells and that the junction box be mounted remotely in a dry location.
5. Wire mesh to have minimum 0.75 in cover bottom and sides.

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Forklift / Pallet Jack Scales

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RL-HPJ **413**
Hand Pallet Jack Scale

Forklift Questionnaire **414**

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CLS NextGen

Forklift Scale



Approvals

Part Number/Price

Part #	Capacity	Description	Est. Weight	Price
Class I , CLS-680, NTEP Certified				
231800	5000 × 5 lbs	CLS680-3436, 16 × 36 in carriage plate, 9 to 36 VDC, wired	465 lbs	$9,950.00
231801	5000 × 5 lbs	CLS680-3436, 16 × 36 in carriage plate, 9 to 36 VDC, cableless	480 lbs	$12,050.00
Class I , CLS-920i, NTEP Certified				
231810	5000 × 5 lbs	CLS920-3436, 16 × 36 in carriage plate, 9 to 36 VDC, wired	475 lbs	$11,200.00
231811	5000 × 5 lbs	CLS920-3436, 16 × 36 in carriage plate, 9 to 36 VDC, cableless	490 lbs	$13,300.00
Class I , VIRTUi³ M Series, NTEP Certified				
231815**	5000 × 5 lbs	CLSM-3436, 16 × 36 in carriage plate, wired with DB9 adapter	450 lbs	$9,350.00

*** Weight indication device (PC/tablet) is not included, consult factory to verify compatibility with your device.*

For indicator drawings and dimensions, please see page 410 and page 411

For scale drawings and dimensions, visit www.ricelake.com.



VIRTUi³



CLS-680



CLS-920i

Standard Features

- NTEP Certified
  - 5,000 × 5 lb capacity and resolution, up to 42-in forks
  - 4,500 × 5 lb capacity and resolution, up to 72-in forks
  - Two 5,000-lb stainless steel load cells
  - iQUBE series digital junction box, stainless steel enclosure
- Large viewing window for operator
- 1.5-in thick steel front and rear plates
- Top cleats are pinned, bolted and welded
- Four flexure system made from high strength stainless steel
- Debris guards for top and sides
- Stainless steel load cell rod bolts
- Replaceable centering pin
- Replaceable centering notch
- Overload and underload stop
- Field serviceable flexures and load cells
- Wired or cable-less connectivity

Weight Indication Choices

- CLS-680
- CLS-920i
- Windows® Mobile PC, Tablets and handhelds, compatible with VIRTUi³

Presale Requirements

- Provide completed forklift questionnaire for quotation
- Compatible with most Class II forklift attachments, consult factory

Installation Recommendations

- When installing a forklift scale, OSHA requires the end user to de-rate the lift capacity of the forklift

Options

- Weigh in-motion
- Narrow width backplate
- Front plate width variations
- CLS-680, 18 to 72 VDC
- Mobile printer

Specifications

Warranty:
Two-year limited

Approvals:
NTEP 06-074

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NEW
NTEP Certified
2 lb Resolution



Approvals

Part Number/Price

Part #	Capacity	Description	Est. Weight	Price
Class I , CLS-680, NTEP Certified				
231802	5000 × 2 lbs	CLS680-3436-PRO, 16 × 36 in carriage plate, 9 to 36 VDC, wired	470 lbs	$11,450.00
231803	5000 × 2 lbs	CLS680-3436-PRO, 16 × 36 in carriage plate, 9 to 36 VDC, cableless	485 lbs	$13,550.00
Class I , CLS-920i, NTEP Certified				
231812	5000 × 2 lbs	CLS920-3436-PRO, 16 × 36 in carriage plate, 9 to 36 VDC, wired	480 lbs	$12,700.00
231813	5000 × 2 lbs	CLS920-3436-PRO, 16 × 36 in carriage plate, 9 to 36 VDC, cableless	495 lbs	$14,800.00
Class I , VIRTUi³ M Series, NTEP Certified				
231816**	5000 × 2 lbs	CLSM-3436-PRO, 16 × 36 in carriage plate, wired with DB9 adapter	455 lbs	$10,850.00

*** Weight indication device (PC/tablet) is not included, consult factory to verify compatibility with your device.*
For indicator drawings and dimensions, please see page 410 and page 411
For scale drawings and dimensions, visit www.ricelake.com.





CLS-680



CLS-920i

Standard Features

- NTEP Certified
  - 5,000 × 2 lb capacity and resolution, up to 42-in forks
  - Two 5,000-lb stainless steel load cells
  - iQUBE series digital junction box, stainless steel enclosure
- Large viewing window for operator
- 1.5-in thick steel front and rear plates
- Top cleats are pinned, bolted and welded
- Four flexure system made from high strength stainless steel
- Debris guards for top and sides
- Stainless steel load cell rod bolts
- Replaceable centering pin
- Replaceable centering notch
- Overload and underload stops
- Field serviceable flexures and load cells
- Wired or cable-less connectivity

Weight Indication Choices

- CLS-680
- CLS- 920i
- Windows® Mobile PC, Tablets and handhelds, compatible with VIRTUi³

Presale Requirements

- Provide completed forklift questionnaire for quotation
- Compatible with most Class II forklift attachments, consult factory

Installation Recommendations

- When installing a forklift scale, OSHA requires the end user to de-rate the lift capacity of the forklift

Options

- Narrow width backplate
- Front plate width variations
- CLS-680, 18 to 72 VDC
- Mobile printer

Specifications

Warranty:
Two-year limited

Approvals:
NTEP 06-074

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CLS NextGen

Forklift Scale with Mobile Printer



Standard Features

- Preconfigured for use with Zebra® ZQ630 Printer, CLS-680 Mode 608
- Package includes:
  - CLS-680 scale assembly
  - Zebra ZQ630 thermal printer
  - Printer mount kit
  - DC power supply for printer
  - Serial and adapter cables from indicator to printer

Approvals

Part Number/Price

Part #	Capacity	Description	Est. Weight	Price
Class I , CLS-680, Zebra Printer, NTEP Certified				
231805	5000 × 5 lbs	CLS-680-3436 with Zebra ZQ630 printer, 12 to 24 VDC, wired	480 lb	$12,100.00
231806	5000 × 5 lbs	CLS-680-3436 with Zebra ZQ630 printer, 12 to 24 VDC, cableless	495 lb	$14,150.00
231807	5000 × 5 lbs	CLS-680-3436 with Zebra ZQ630 printer, 18 to 60 VDC, wired	480 lb	$12,500.00
231808	5000 × 5 lbs	CLS-680-3436 with Zebra ZQ630 printer, 18 to 60 VDC, cableless	495 lb	$14,550.00

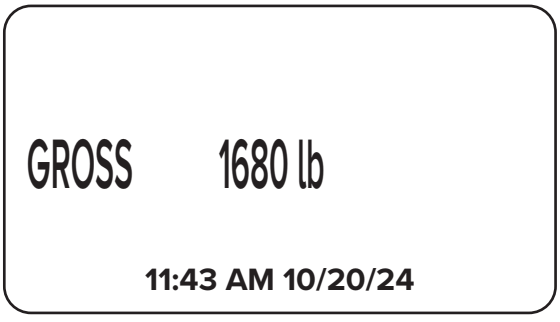
For drawings and dimensions of the indicator, please see page 410
For scale drawings and dimensions, visit www.ricelake.com.



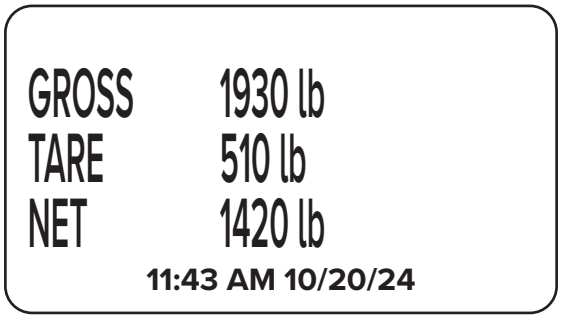
Zebra ZQ630



CLS-680



Gross label



Net label

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Approvals

Measurement Canada Approved

Part Number/Price

Part #	Capacity	Description	Est. Weight	Price
Class I , CLS-680 with Measurement Canada Approval				
214091	4,500 × 5 lb	34 in W, 16 in H forklift carriage (36 in W with flexures), 9 to 36 VDC	530 lb	$9,950.00
208269	4,500 × 5 lb	34 in W, 16 in H forklift carriage (36 in W with flexures), 9 to 36 VDC, cableless	545 lb	$12,050.00
Class I , CLS-920i with Measurement Canada Approval				
215114	4,500 × 5 lb	34 in W, 16 in H forklift carriage (36 in W with flexures), 9 to 36 VDC	540 lb	$11,200.00
216947	4,500 × 5 lb	34 in W, 16 in H forklift carriage (36 in W with flexures), 9 to 36 VDC, cableless	565 lb	$13,300.00

For indicator drawings and dimensions, please see page 410 and page 411
For scale drawings and dimensions, visit www.ricelake.com.

Standard Features

Measurement Canada Approved

- 4,500 × 5 lb/5,000 × 10 lb
- 1-1/2-in thick front and back painted steel plates coupled by four flexures
- Top cleats are welded, pinned and bolted
- Welded centering pin
- Two 5,000-lb S-beam load cells
- iQUBE$^{2®}$ junction box with inclinometer
- Molded coiled cable, up to 15 ft uncoiled

Presale Requirements

- Provide completed forklift questionnaire for quotation
- Compatible with most Class II forklift attachments, consult factory

Installation Recommendations

- When installing a forklift scale, OSHA requires the end user to de-rate the lift capacity of the forklift

Options

- Narrow width backplate, 28 in
- Mobile printer

Specifications

Warranty:
Two-year limited

Approvals:
Measurement Canada AM-5893

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CLS Series Class III

Forklift Scale



Part Number/Price

Part #	Capacity	Description	Est. Weight	Price
Class I I, CLS-680, Non-NTEP Certified				
212521	8,000 × 5 lb	38 in W, 20 in H forklift carriage, 9 to 36 VDC	985 lb	$13,140.00
214092	8,000 × 5 lb	38 in W, 20 in H forklift carriage, 9 to 36 VDC, cableless	990 lb	$15,190.00
Class I I, CLS-920i, Non-NTEP Certified				
219975	8,000 × 5 lb	38 in W, 20 in H forklift carriage, 9 to 36 VDC	990 lb	$14,390.00
214093	8,000 × 5 lb	38 in W, 20 in H forklift carriage, 9 to 36 VDC, cableless	1,005 lb	$16,440.00

For indicator drawings and dimensions, please see page 410 and page 411
For scale drawings and dimensions, visit www.ricelake.com.

Standard Features

Scale Carriage

- 38 in, 8,000 × 5 lbs, non-NTEP
- 1-1/2-in thick front and back painted steel plates coupled by four flexures
- Top cleats are welded, pinned and bolted
- Welded centering pin
- Two 5,000-lb S-beam load cells
- iQUBE$^{2®}$ junction box with inclinometer
- Molded coiled cable, up to 15 ft uncoiled

Presale Requirements

- Provide completed forklift questionnaire for quotation
- Compatible with most Class III forklift attachments, consult factory

Installation Recommendations

- When installing a forklift scale, OSHA requires the end user to de-rate the lift capacity of the forklift

Options

- CLS-680, 18 to 72 VDC
- Virtui^{3}
- Mobile printer

Specifications

Warranty:
Two-year limited

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CLS Indicator

CLS-680 (page 410)

The CLS-680 was designed from the ground-up, specifically for forklift applications. With a machined aluminum anodized enclosure, the CLS-680 is ideal for demanding, general-purpose forklift applications. Its compact size is attached with a RAM® mount for flexible positioning and minimal obstruction. Additional features include rounded corners, vibration protection and surge suppression.

- Six-digit, seven-segment LED display
- Battery backed time and date
- On/off power switch
- 9 to 26 VDC or 18 to 72 VDC power supply
- Cabled or cableless
- RS-232 serial port
- Wi-Fi
- WPAN

CLS Indicator

CLS-920i (page 411)

The CLS-920i incorporates the flexibility, intelligence and programmability of the 920i in a smaller enclosure with a DC power supply for use on forklifts. The standard program offers weight indication, configuration, calibration and diagnostics specific to the CLS. Customize it for your application with an optional user program.

- Painted mild steel enclosure
- Backlit graphical LCD display
- Battery-backed time and date
- On/off power switch
- 9 to 36 VDC power supply
- Cabled or cableless
- Two available RS-232 ports for added options
- Optional Wi-Fi
- Optional WPAN

CLS Virtual Solution

VIRTUi^{3}® (page 412)

Weight data is displayed on a device using VIRTUi^{3} software, creating a virtual indicator. The CLS connects to your device using RS-232, USB or WPAN. Choose between the CLS-M or CLS-IM configuration for static or in-motion use.

- Weight indication device (PC/tablet) is not included
- Consult factory to verify compatibility with your device
- WPAN connection available
- USB connection available

Cableless

The cableless option removes the coiled communications or power cable between the scale and the indicator. A rechargeable battery is secured to the scale, powering the scale and the paired wireless modules provide communication.

- 802.15 wireless interface
- Lithium-ion battery and charger
- On/off power switch
- Battery life: 24 hours of constant use
- Battery recharge time: 8 hours to fully recharge
- Reinforced battery box

Wi-Fi

Wi-Fi is a standard feature for the CLS-680 and is available as a factory installed option for the CLS-920i.

- Wireless LAN card 802.11 b/g
- Range: Up to 328 ft indoors
- Operating frequency: ISM 2.4 GHz

WPAN

WPAN communication is a standard feature for the CLS-680 and is available as an external option for the CLS-920i. It is also available in a communications/power box for the virtual solution.

Forklift Capacity Derating

During the initial scale installation, remind the customer that they must have an updated ID plate on the forklift stating the new lifting capacity and center of gravity information. This is required per OSHA rules and regulations.

Forklift scale dimensions and capacity derating available on www.ricelake.com

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CLS-680

Forklift Scale Display



Approvals

Part Number/Price

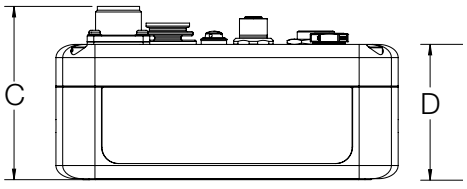
Part #	Description	Price
206439	CLS-680 indicator, 9 to 36 VDC	$1,310.00
204239	CLS-680 indicator, 18 to 72 VDC	$1,590.00

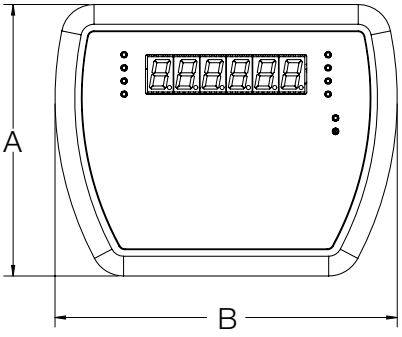
Options/Accessories

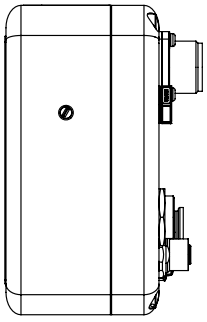
Part #	Description	Price
96915	Power cable assembly	$125.00
125395	Coiled cable assembly	$295.00
200762	Ball mount (indicator)	$20.00
200764	Ball mount clamp style	$40.00
175509	Mount arm	$40.00
205715	RS-232 data cable, DB9	$95.00

Dimensions

CLS-680	
A	5.2 in (132 mm)
B	6.5 in (165 mm)
C	3.3 in (84 mm)
D	2.5 in (64 mm)







Standard Features

- LED display
- Battery backed time and date
- Full numeric keypad
- Numeric keyed entry allowed for tare
- Configurable print formats
- CLS user modes
- Machined aluminum enclosure with rounded corners
- Wi-Fi standard
- Embedded antenna
- RAM® style mount ability
- M16 socket, CLS scale connection
- M12 socket RS-232
- Power cable socket
- PreVent™ breather vent
- Illuminated power switch

Options

- Cableless interface to CLS with Zigbee module
- RAM style mounts
- Molded M12 serial cables

Specifications

Power:
DC voltages: 9 to 36 VDC or 18 to 72 VDC

Communication Ports:
Two RS-232 full duplex, one reserved for CLS
Bluetooth® SSP
Wi-Fi: Wireless 802.11 b/g/n 2.5 GHz
Zigbee, reserved for CLS cableless option

Annunciators:
10 LED

Display:
Six-digit, 0.5 in tall, seven-segment digits

Keys/Buttons:
Flat membrane panel, tactile feel (18 buttons)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Industrial: 14 °F to 122 °F (-10 °C to 50 °C)

Dimensions:
(L × W × H)
6.5 × 5.2 × 3.3 in
(165 × 132 × 84 mm)

Estimated Weight:
3.7 lb (1.7 kg)

Material:
Machined aluminum enclosure, anodized finish

EMC Immunity:
EN 50082 Part 2 IEC 61000-4-2,3,4,5,6,8 and 11

Warranty:
Two-year limited

Approvals:
NTEP 21-092, Class III/IIIL, 5,000d

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Approvals

Measurement Canada Approved

Part Number/Price

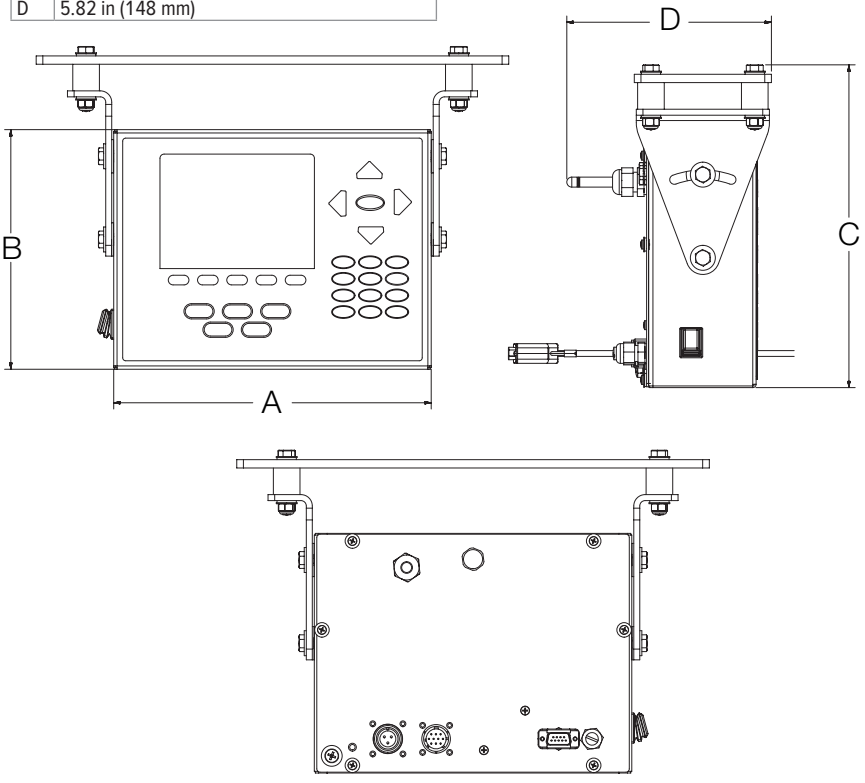
Part #	Description	Price
162112	CLS-920i indicator with mounting brackets, 9 to 36 VDC	$3,200.00

Options/Accessories

Part #	Description	Price
96915	Power cable assembly	$125.00
125395	Coiled cable assembly	$295.00
163353	RS-232 data cable, DB9	$58.00

Dimensions

CLS-920i	
A	9.54 in (242 mm)
B	7.20 in (183 mm)
C	9.71 in (247 mm)
D	5.82 in (148 mm)



Standard Features

- LCD display
- Standard program
  - Weight indication
  - Configuration
  - Calibration
  - Diagnostics
- Front panel calibration
- On/Off switch to conserve forklift battery life
- Painted mild steel enclosure
- Two-piece top cage indicator mounting assembly with vibration mounts
- Two available RS-232 ports for added options of scanner, Wi-Fi or printer
- 9 to 36 VDC power supply for use on gas powered or electric forklifts

Note: For custom user program, please contact the factory

Specifications

Power:
Line voltage: 9 to 36 VDC, DC input

Power Consumption:
1.5 A max fused at 5.0

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Wireless LAN Option:
Contains FCC ID: R68WIPORATG
Range: Up to 328 ft indoors
Operating frequency: ISM 2.4 GH

Warranty:
Two-year limited

Approvals:
NTEP 06-074, 5,000 lb only, Class III, 1,000d
Measurement Canada AM-5893, Class III

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VIRTUi³®

PC-based Program for CLS Series Forklift Scale



Standard Features

- Virtual front panel consists of display and two or three button keypad
- Printer port configuration, serial or TCP/IP
- Provides CLS configuration screen
- Supports CLS diagnostics
- Weight indication screen
- Weight display
- Zero, print and in-motion clear buttons
- Capacity, resolution, units, motion and center of zero status annunciators
- Unit ID
- Configuration, calibration and diagnostics menus
- VIRTUi³ Mini, minimized weight display screen
- Scale test menu

Specifications

Minimum System Requirements:
Windows® 8.1 or greater
Serial port connection to CLS Series forklift scale
Additional serial ports are required for connections to printers/remote displays 100 MB space needed
8 GB or greater RAM

Annunciators:
Units, capacity, resolution, motion, center of zero

Approvals:
NTEP 04-058

Approvals

Part Number/Price

Part #	Description	Price
188745	VIRTUi³ software	$495.00

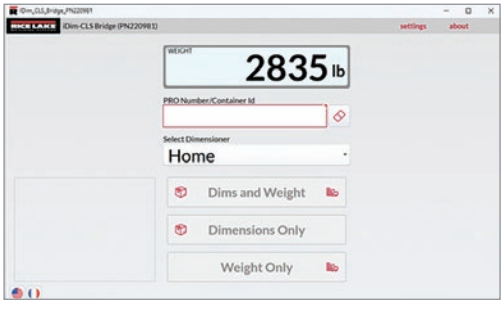


QR Code Application Software

- Windows 10 or greater
- Interfaces to the Virtui³ Server to generate a QR Model 2 Bar Code that is scannable
- Requires installation of Virtui³ (purchased separately)

Part Number/Price

Part #	Description	Price
226345	QR Code application software	$395.00



Middleware Forklift/Dimensioning Software

- Windows 10 or greater
- Connection between iDimSS and indicators

Part Number/Price

Part #	Description	Price
220981	Middleware forklift/dimensioning software	$595.00

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RL-HPJ

Hand Pallet Jack Scale



Standard Features

- Steering wheels and double loading polyurethane rollers
- Four stainless steel IP68 load cells
- Weight indicator in IP65 stainless steel water-resistant enclosure
- Configuration, calibration and diagnostics from keyboard
- Rechargeable battery mounted on the pallet jack
- Accumulation
- Formulation
- ± Checkweighing
- Percentage weighing
- Peak hold

Specifications

Power:
Lead acid battery (included)
Battery charger: 115 VAC 50/60 Hz (included)

Battery Life:
80 hours of continuous use or one month of non-continuous use

Resolution:
Internal: 1,500,000 counts

Annunciators:
Gross/net, lb/kg, zero, tare

Display:
1 in (25 mm) LCD display high contrast digits

Capacity:
Maximum lifting capacity 5,000 lb

Accuracy:
± 0.1% of the maximum capacity

Keys/Buttons:
17 functional keys

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Material:
Heavy-gauge steel with a durable powder coat finish

Fork Dimensions:
48.75 × 26.75 × 3.125 in
(1240 × 680 × 80 mm)

Weight:
Approx. 360 lb (163 kg)

Warranty:
One-year limited

Part Number/Price

Part #	Description	Est. Weight	Price
183592	Pallet jack scale, RL-HPJ, 5,000 × 1 lb	360 lb	$2,495.00
220672	Pallet jack scale, RL-HPJ, 5,000 × 1 lb, with printer	365 lb	$2,920.00

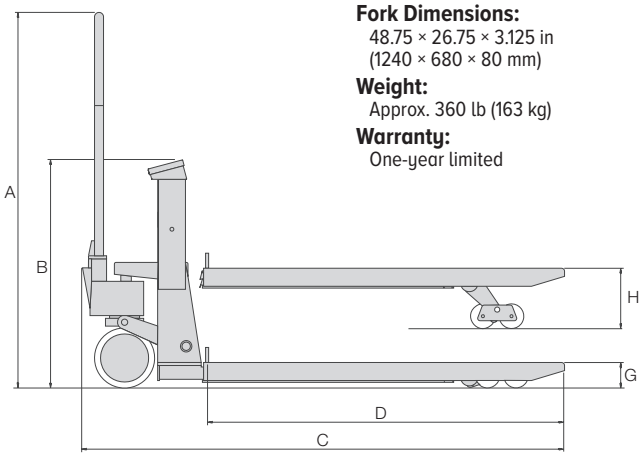
Options/Accessories

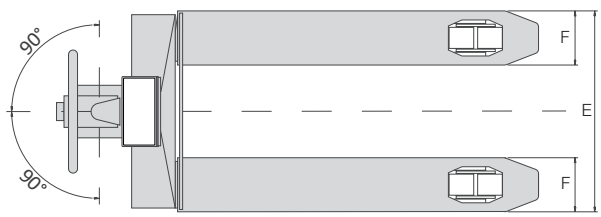
Part #	Description	Price
215143	Power supply, 7.2 VDC, 3 A SLA battery charger	$132.00
215142	Battery, rechargeable	$158.00
182053	Printer paper roll, 57 mm × 30 m, 12 mm core 51 mm OD	$3.00

NOTE: See replacement parts page to detail correct part numbers for previous generations

Dimensions

RL-HPJ			
A	47.25 in (1,200 mm)	E	26.75 in (680 mm)
B	30.00 in (762 mm)	F	7.00 in (178 mm)
C	64.25 in (1,631 mm)	G	3.13 in (79 mm)
D	45.25 in (1,149 mm)	H	7.75 in (197 mm)





FORKLIFT / PALLET JACK SCALES

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Forklift Questionnaire

RICE LAKE WEIGHING SYSTEMS

Dealer/Company: Date:

Contact Person:

Phone: Fax: Email:

Forklift Specification *If the answer is no, please explain.*

1. Is the lift a typical counterbalance forklift? ☐ *Yes* ☐ *No*

2. Does the forklift have an ITA type carriage? *(clip-on/hook)* ☐ *Yes* ☐ *No*

3. Is the carriage a Class II, 16" profile? ☐ *Yes* ☐ *No*

4. Is the carriage width greater than 36"? ☐ *Yes* ☐ *No*

5. Is the supply power 12 VDC? ☐ *Yes* ☐ *No*

6. Forklift capacity:

7. Mast Extension:

8. Make:

9. Model:

Load Backstop

If the answer to any question below is no, please provide notes under Additional Comments.

10. Is there a load backstop present? ☐ *Yes* ☐ *No*

If yes, please answer questions A and B.

A. Is the backstop bolted to the side of the carriage ☐ *Yes* ☐ *No*

If yes, please complete Drawing #2 on page 2.

B. Is the backstop bolted to the front of the carriage? ☐ *Yes* ☐ *No*

If yes, please complete Drawing #3 on page 2.

11. Is this a cableless application? ☐ *Yes* ☐ *No*

If yes, please complete Drawing #4.

Additional Comments

Attachments

12. Are attachments present? ☐ *Yes* ☐ *No*

If yes, please list attachments below.

Description

Make/Model

Description

Make/Model

Description

Make/Model

Legal for Trade

13. Is NTEP required? ☐ *Yes* ☐ *No*

14. Is Measurement Canada required? ☐ *Yes* ☐ *No*

15. Is the fork length 42" of less? ☐ *Yes* ☐ *No*

Instrumentation

16. Select preferred instrumentation model

☐ *CLS-680* ☐ *CLS-920i* ☐ *Virtuii*^{3}

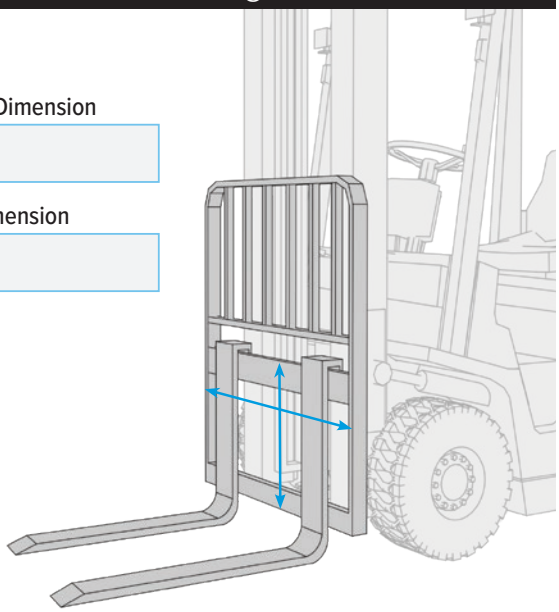
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Forklift Questionnaire

Drawing #1

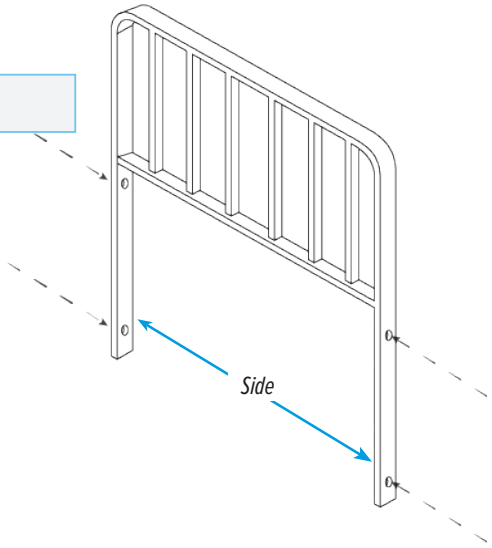
Horizontal Dimension

Vertical Dimension



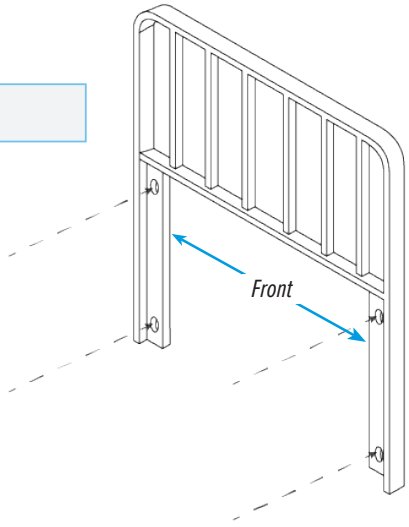
Drawing #2

Dimension

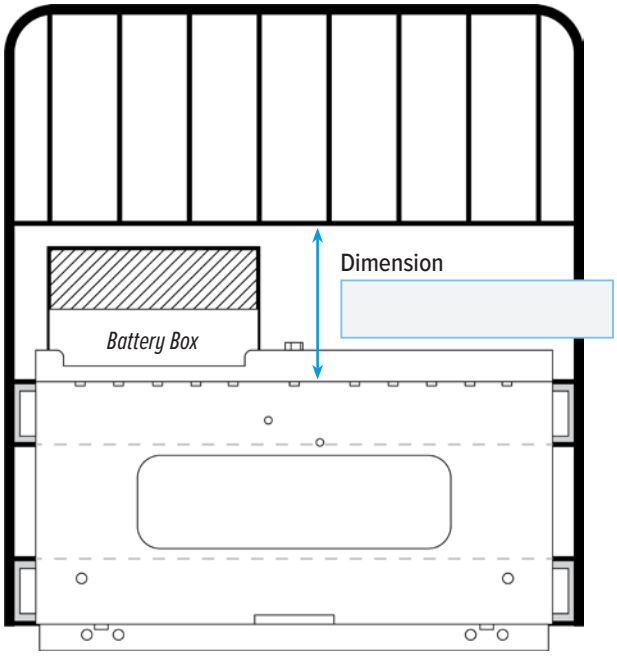


Drawing #3

Dimension



Drawing #4



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Suspended Scale

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On-site OS-10/OS-25/OS-45

Suspended Scale



Standard Features

- Hold function
- Units of measure: lb/lb-oz/kg
- Adjustable automatic shut-off
- Ergonomic handheld design
- Battery operated, two AA batteries (included)
- Carrying case and top s-hook (included)
- Captured lower hook, removable upper hook (both hooks included)

Specifications

Capacity:
OS-10:
22 lb × 0.02 lb
22 lb × 0.25 oz
10 kg × 0.01 kg
OS-25:
55 lb × 0.05 lb
55 lb × 0.5 oz
25 kg × 0.02 kg
OS-45:
99 lb × 0.1 lb
99 lb × 1 oz
45 kg × 0.05 kg

Power:
Two AA batteries (included)

Temperature:
Operating:
32 °F to 104 °F (0 °C to 40 °C)

Warranty:
One-year limited

Approvals:
CE Approved

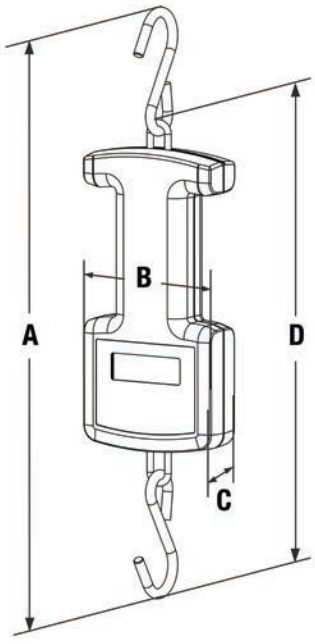
Approvals

CE

Part Number/Price

Part #	Model	Capacity	Est. Weight	Price
130292	OS-10	10 × 0.01 kg (22 × 0.02 lb) (22 lb × 1/4 oz)	1.25 lb	$125.00
130293	OS-25	25 × 0.02 kg (55 × 0.05 lb) (55 lb × 1/2 oz)	1.25 lb	$125.00
130294	OS-45	45 × 0.05 kg (99 × 0.1 lb) (99 lb × 1 oz)	1.25 lb	$125.00





Dimensions

	Inches	Centimeters
A	14.30	36.3
B	3.60	9.1
C	1.30	3.3
D	11.60	29.5

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EL147HE, 6 Wire 439
Hostile Environment Load Cell Cable
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Load Cell Mounting Hardware Safety Guidelines

Install only load cell mounting hardware and assemblies that have been specifically designed for use in tank, hopper or hanging scale applications. Often, the use of an inferior-grade product results in component failure which risks equipment damage and personal injury. These simple suggestions are provided to help minimize your exposure to vessel scale installation hazards.

1. Estimating Gross Load

To select the correct load cell or load cell hardware for a given application, it is necessary to know the total weight on the scale—including net weight of product, tare weight of the vessel and weight of the platform, tank or hopper, as appropriate.

2. Safe Load

Do not exceed safe load figures listed in Rice Lake Weighing Systems' catalog for any load cell hardware. Where shock loads are present, it may be necessary to derate these safe load figures depending on severity of the shock load.

3. Load Distribution

In multiple-load-cell applications, weight must be evenly distributed between all cells.

4. Threaded Connections

Check that all threaded connections are engaged. For example, an eye bolt screwed into an s-type load cell should protrude slightly on the opposite side.

5. Jam Nuts

All threaded connections must be locked with jam nuts to prevent inadvertent disassembly. If a load is suspended from a single load cell, it is critical that the load cannot rotate as this may loosen the jam nut.

6. Wire Rope Assemblies

With wire rope assemblies, do not twist the rope during assembly or disassembly. For example, do not remove a frozen nut from one end of a rope assembly by holding the opposite end.

7. Attachment Points of a Load Cell

The attachment points of a load cell hardware assembly must be aligned properly and the assembly should be essentially vertical.

8. Swaying in a Suspended Vessel Scale

If there is excessive swaying in a suspended vessel scale, apply horizontal checking to reduce amplitude.

9. Safety Backup

If failure of one or more load cell hardware assemblies could cause injury or damage, a safety backup (safety chains, safety rods, etc.) must be used. The assemblies should be inspected routinely for damage, excessive wear or corrosion and replaced if necessary.

10. Hopper Scales: Guarding Against Contamination

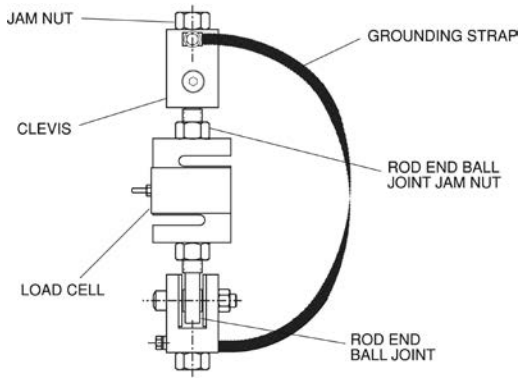
With hopper scales, guard against contamination of the product being weighed in case of failure of the load cell or hardware assembly. For example, do not locate a wire rope assembly over a hopper scale where broken strands of wire could fall into the weighing vessel, contaminating the product being weighed.

11. Selecting Steel Rod or Any Other Weight-bearing Components

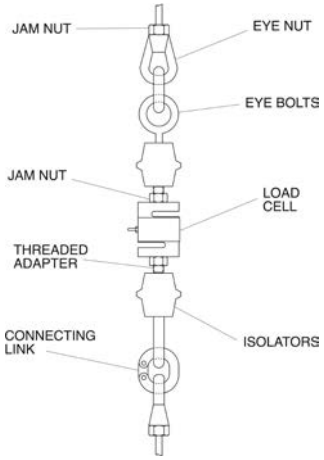
Select steel rod or any other weight-bearing components so the minimum tensile strength is at least four times the total weight carried by that component. Note that threaded rod is generally made from a low tensile-strength mild steel which should be checked for tensile strength before use in any suspended vessel scale.

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Mounting Assembly Component Identification



ITCM Isolated Tension Cell Mounting Assembly



Conventional Tension Mounting Assembly

Our popular Isolated Tension Cell Mount (ITCM) assembly and other conventional suspended weighing system assemblies employ a variety of serviceable hardware components. Rice Lake Weighing Systems offers a comprehensive selection of these items for all of your suspended vessel service needs. These drawings are designed to enable you to quickly identify and differentiate components from both of these common designs. All corresponding replacement hardware is located on the following pages.

Jam Nuts



Standard Features

- Coarse or fine thread
- Zinc-plated mild steel or stainless steel

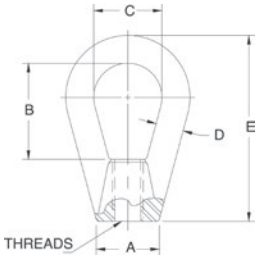
Thread Size	Part #	Price
Mild Steel, Fine Thread		
1/4-28 UNF	**14639**	$1.00
3/8-24 UNF	**14651**	$1.00
1/2-20 UNF	**14664**	$1.60
3/4-16 UNF	**14687**	$1.60
1-12 UNF	**14702**	$5.99
1-14 UNF	**14703**	$4.90
1 1/4-12 UNF	**14708**	$3.60
1 1/2-12 UNF	**14711**	$4.90
Mild Steel, Coarse Thread		
1/4-20 UNC	**14636**	$1.00
3/8-16 UNC	**14649**	$2.25
1/2-13 UNC	**14661**	$1.00
5/8-11 UNC	**14676**	$4.00
3/4-10 UNC	**14686**	$1.06
1-8 UNC	**14701**	$1.20
1-1/4-7 UNC	**14707**	$3.30

Thread Size	Part #	Price
Stainless Steel, Fine Thread		
1/4-28 UNF	**14640**	$1.30
1/2-20 UNF	**14665**	$1.95
3/4-16 UNF	**14688**	$2.30
Stainless Steel, Coarse Thread		
3/8-16 UNC	**14653**	$2.10
1/2-13 UNC	**14662**	$1.85
5/8-11 UNC	**14680**	$2.10
3/4-10 UNC	**14690**	$2.25

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Eye Nuts





Standard Features

- Drop-forged steel, tapped NC right-hand threads

Part Number/Price

Part #	A	B	C	D	E	Thread Size	Safe Load*	Price
17772	0.50 in	1.06 in	0.75 in	0.25 in	1.68 in	1/4-20 UNC	500 lb	$50.00
17773	0.75 in	1.18 in	0.87 in	0.31 in	2.25 in	3/8-16 UNC	1,800 lb	$34.00
17774	1.00 in	1.56 in	1.12 in	0.43 in	3.00 in	1/2-13 UNC	3,600 lb	$50.00
17775	1.25 in	1.93 in	1.37 in	0.56 in	3.75 in	5/8-11 UNC	5,800 lb	$55.00

**Do not exceed the safe load*

Coupling Nuts



Standard Features

- Heavy hex

Part Number/Price

Part #	Thread Size	Length	Flat	Safe Load*	Price
14638	1/4-20 UNC	1.75 in	0.44 in	500 lb	$8.50
14650	3/8-16 UNC	1.75 in	0.62 in	1,500 lb	$8.50
14663	1/2-13 UNC	1.75 in	0.87 in	3,000 lb	$8.50
14681	5/8-11 UNC	2.12 in	1.06 in	7,500 lb	$11.50
14691	3/4-10 UNC	2.25 in	1.25 in	10,000 lb	$12.50

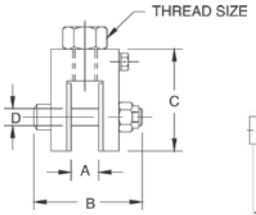
**Do not exceed the safe load*

Clevis Mount Assemblies

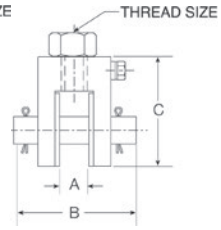


Standard Features

- Mild steel or stainless steel
- Used in the ITCM assembly
- Adapts rod to rod-end ball joint
- Provides electrical isolation for load cell protection
- Eliminates unwanted side loads



Clevis Mount with bolt



Clevis Mount with pin

Part Number/Price

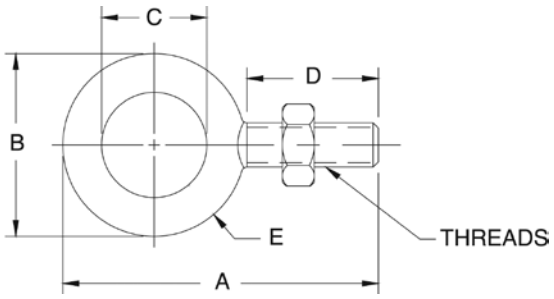
Part #	A	B	C	D	Thread Size	Safe Load*	Price
Mild Steel with Bolt							
17792	0.52 in	2.38 in	1.94 in	0.38 in	3/8-16 UNC	300 lb	$87.00
17793	0.52 in	2.38 in	1.94 in	0.38 in	1/2-13 UNC	300 lb	$87.00
17783	0.39 in	1.81 in	1.69 in	0.25 in	1/2-13 UNC	500 lb	$99.00
17784	0.65 in	2.68 in	2.31 in	0.50 in	3/4-10 UNC	4,000 lb	$99.00
17785	0.78 in	3.37 in	3.00 in	0.62 in	1-8 UNC	10,000 lb	$99.00
17786	0.39 in	1.81 in	1.69 in	0.25 in	3/8-16 UNC	500 lb	$94.00
17787	0.65 in	2.68 in	2.31 in	0.50 in	1/2-13 UNC	2,000 lb	$99.00
17788	0.65 in	2.68 in	2.31 in	0.50 in	5/8-11 UNC	2,500 lb	$99.00
17789	0.78 in	3.37 in	3.00 in	0.62 in	3/4-10 UNC	5,000 lb	$99.00
Mild Steel with Pin							
17790	1.39 in	4.12 in	4.50 in	1.00 in	1 1/4-7 UNC	15,000 lb	$367.00
17791	1.22 in	4.12 in	5.00 in	1.25 in	1 1/2-6 UNC	20,000 lb	$367.00
Stainless Steel with Pin							
33644	0.52 in	2.38 in	1.94 in	0.38 in	1/2-13 UNC	300 lb	$192.00
33643	0.39 in	1.81 in	1.69 in	0.25 in	1/2-13 UNC	500 lb	$192.00
33641	0.39 in	1.81 in	1.69 in	0.25 in	3/8-16 UNC	500 lb	$192.00
33658	0.52 in	2.38 in	1.94 in	0.38 in	3/8-16 UNC	500 lb	$192.00
33642	0.65 in	2.68 in	2.31 in	0.50 in	3/4-10 UNC	4,000 lb	$250.00
33640	0.65 in	2.68 in	2.31 in	0.50 in	1/2-13 UNC	2,000 lb	$250.00
33639	0.65 in	2.68 in	2.31 in	0.50 in	5/8-11 UNC	2,500 lb	$250.00
33638	0.78 in	3.37 in	3.00 in	0.62 in	3/4-10 UNC	5,000 lb	$250.00

**Do not exceed the safe load*

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Load Cell Eye Bolts





Standard Features

- Mild steel
- One jam nut included with each eye bolt

Part Number/Price

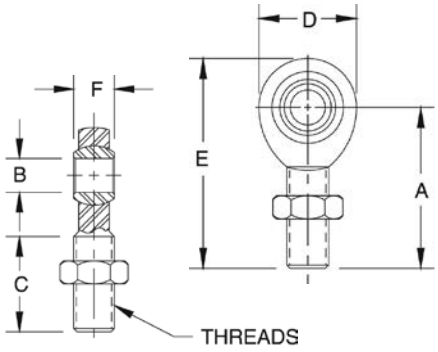
Part #	A	B	C	D	E	Thread Size	Safe Load*	Price
Mild Steel								
17705	2.25 in	1.25 in	0.75 in	1.00 in	0.25 in	1/4-28 UNF	500 lb	$30.00
17707	2.91 in	1.66 in	1.00 in	1.25 in	0.33 in	3/8-24 UNF	1,300 lb	$30.00
17709	3.56 in	2.06 in	1.19 in	1.50 in	0.44 in	1/2-20 UNF	2,400 lb	$31.00
17711	4.25 in	2.50 in	1.37 in	1.75 in	0.56 in	5/8-18 UNF	4,000 lb	$36.00
17713	4.81 in	2.81 in	1.50 in	2.00 in	0.66 in	3/4-16 UNF	5,000 lb	$76.00
17715	6.06 in	3.56 in	1.81 in	2.50 in	0.87 in	1-12 UNF	9,000 lb	$120.00
17716	6.06 in	3.56 in	1.81 in	2.50 in	0.87 in	1-14 UNS	9,000 lb	$120.00
17704	2.25 in	1.25 in	0.75 in	1.00 in	0.25 in	1/4-20 UNC	500 lb	$25.00
17706	2.91 in	1.66 in	1.00 in	1.25 in	0.33 in	3/8-16 UNC	1,300 lb	$27.00
17708	3.56 in	2.06 in	1.19 in	1.50 in	0.44 in	1/2-13 UNC	2,400 lb	$27.00
17710	4.25 in	2.50 in	1.37 in	1.75 in	0.56 in	5/8-11 UNC	4,000 lb	$40.00
17712	4.81 in	2.81 in	1.50 in	2.00 in	0.66 in	3/4-10 UNC	5,000 lb	$60.00
17714	6.06 in	3.56 in	1.81 in	2.50 in	0.87 in	1-8 UNC	9,000 lb	$62.00
17717	7.44 in	4.44 in	2.19 in	3.00 in	1.12 in	1 1/4-7 UNC	15,000 lb	$175.00

**Do not exceed the safe load*

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Rod End Ball Joints





Standard Features

- Mild steel or stainless steel
- Used in the ITCM assembly
- One jam nut included with each rod end ball joint

Part Number/Price

Part #	Safe Load*	Breaking Strength	PTFE Lined	Price
Mild Steel				
17746	975 lb	3,915 lb	YES	$34.00
17734	1,200 lb	4,916 lb	NO	$24.00
17736	4,000 lb	16,238 lb	NO	$60.00
17738	7,000 lb	28,081 lb	NO	$103.00
17735	2,000 lb	8,075 lb	NO	$29.00
17737	3,250 lb	13,831 lb	NO	$42.00
17739	500 lb	2,158 lb	YES	$34.00
17740	4,000 lb	16,238 lb	YES	$55.00
17741	10,000 lb	40,572 lb	YES	$82.00
17742	10,500 lb	43,541 lb	NO	$154.00
26007	15,000 lb	76,200 lb	YES	$318.00
17747	19,000 lb	76,200 lb	YES	$366.00
17743	20,000 lb	79,728 lb	NO	$276.00
17744	24,000 lb	96,510 lb	NO	$382.00
Stainless Steel				
33505	500 lb	2,158 lb	YES	$148.00
33506	1,500 lb	7,362 lb	YES	$148.00
33507	3,000 lb	16,238 lb	YES	$159.00
33508	7,000 lb	40,572 lb	YES	$366.00

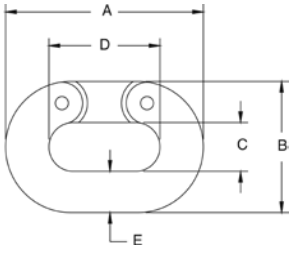
**Do not exceed the safe load*

Dimensions

Part #	A	B	C	D	E	F	Thread Size
Mild Steel							
17746	1.94 in	0.37 in	1.25 in	1.00 in	2.43 in	0.50 in	3/8-24 UNF
17734	1.94 in	0.37 in	1.25 in	1.00 in	2.43 in	0.50 in	3/8-24 UNF
17736	2.44 in	0.50 in	1.50 in	1.31 in	3.09 in	0.62 in	1/2-20 UNF
17738	2.87 in	0.75 in	1.75 in	1.75 in	3.75 in	0.87 in	3/4-16 UNF
17735	2.44 in	0.50 in	1.50 in	1.31 in	3.09 in	0.62 in	1/2-20 UNF
17737	2.87 in	0.75 in	1.75 in	1.75 in	3.75 in	0.87 in	3/4-16 UNF
17739	1.56 in	0.25 in	1.00 in	0.75 in	1.93 in	0.37 in	1/4-28 UNF
17740	2.44 in	0.50 in	1.50 in	1.31 in	3.09 in	0.62 in	1/2-20 UNF
17741	2.87 in	0.62 in	1.75 in	1.75 in	3.75 in	0.75 in	3/4-16 UNF
17742	4.12 in	1.00 in	2.12 in	2.75 in	5.50 in	1.37 in	1-12 UNF
26007	4.12 in	1.00 in	2.12 in	2.75 in	5.50 in	1.37 in	1-14 UNS
17747	4.12 in	1.00 in	2.12 in	2.75 in	5.50 in	1.37 in	1-12 UNF
17743	4.12 in	1.25 in	2.12 in	2.75 in	5.50 in	1.09 in	1 1/4-12 UNF
17744	5.37 in	1.50 in	3.00 in	3.50 in	7.12 in	1.31 in	1 1/2-12 UNF
Stainless Steel							
33506	1.94 in	0.37 in	1.25 in	1.00 in	2.43 in	0.50 in	3/8-24 UNF
33505	1.56 in	0.25 in	1.00 in	0.75 in	1.93 in	0.37 in	1/4-28 UNF
33507	2.44 in	0.50 in	1.50 in	1.31 in	3.09 in	0.62 in	1/2-20 UNF
33508	2.87 in	0.62 in	1.75 in	1.75 in	3.75 in	0.75 in	3/4-16 UNF

Connecting Links





Standard Features

- Drop-forged carbon steel, heat-treated, hot-dipped galvanized finish

Part Number/Price

Part #	A	B	C	D	E	Safe Load*	Price
17794	1.50 in	1.00 in	0.43 in	0.87 in	0.25 in	1,325 lb	$45.00
17795	2.06 in	1.37 in	0.56 in	1.12 in	0.37 in	2,750 lb	$48.00
17797	3.31 in	2.09 in	0.78 in	1.81 in	0.62 in	7,250 lb	$58.00
17798	3.87 in	2.50 in	0.93 in	2.12 in	0.75 in	10,250 lb	$77.00
17799	5.00 in	3.31 in	1.25 in	2.75 in	1.00 in	15,500 lb	$130.00

**Do not exceed the safe load*

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Load Cell Isolators



Power surges such as those caused by welding or electrical shorts frequently damage load cells and indicators. To prevent such damage, these isolators electrically separate the mechanical assembly from its tension-type load cell.

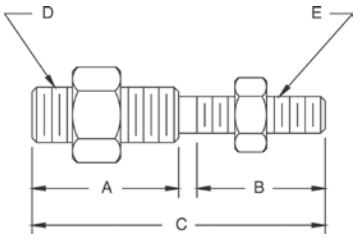
Part Number/Price

Part #	Height Thread Size	Diameter	Safe Load*	Price
17722	3/8-16 UNC	2.50 in	600 lb	$52.00
17724	1/2-13 UNC	2.50 in	600 lb	$56.00
17726	1/2-20 UNF	2.50 in	600 lb	$95.00
17725	1/2-13 UNC	2.00 in	3,000 lb	$130.00
17723	3/8-24 UNF	2.50 in	600 lb	$98.00
17728	1/2-13 UNC × 1/2-20 UNF	2.50 in	600 lb	$73.00
17732	1/4-20 UNC	1.12 in	250 lb	$56.00

**Do not exceed the safe load*

Threaded Adapters





Standard Features

- For coupling isolators with load cells and steelyard rods
- Supplied with jam nuts
- Stainless steel

Part Number/Price

Part #	A	B	C	D	E	Safe Load*	Price
33561	-	-	2.00 in	1/4-28 UNF	1/4-28 UNF	300 lb	$29.00
33562	0.94 in	0.94 in	2.00 in	1/4-28 UNF	1/4-20 UNC	300 lb	$32.00
33563	0.92 in	1.02 in	2.06 in	1/4-28 UNF	3/8-24 UNF	300 lb	$37.00
33564	0.94 in	0.94 in	2.00 in	1/4-28 UNF	3/8-16 UNC	300 lb	$29.00
33565	1.06 in	1.06 in	2.25 in	1/4-20 UNC	3/8-16 UNC	300 lb	$32.00
33567	1.06 in	1.06 in	2.25 in	1/4-28 UNF	1/2-13 UNC	300 lb	$32.00
33568	-	-	2.00 in	3/8-24 UNF	3/8-24 UNF	500 lb	$42.00
33569	0.91 in	0.91 in	2.00 in	3/8-16 UNC	3/8-24 UNF	500 lb	$36.00
33570	1.06 in	1.06 in	2.25 in	3/8-24 UNF	1/2-13 UNC	500 lb	$32.00
33571	1.31 in	1.31 in	2.75 in	1/2-13 UNC	5/8-11 UNC	3,000 lb	$32.00
33572	0.87 in	0.87 in	2.00 in	1/2-13 UNC	1/2-20 UNF	3,000 lb	$36.00
33573	-	-	2.06 in	1/2-20 UNF	1/2-20 UNF	3,000 lb	$36.00
33574	1.31 in	1.31 in	2.75 in	1/2-20 UNF	5/8-11 UNC	3,000 lb	$38.00
33575	1.31 in	1.31 in	3.00 in	3/4-16 UNF	3/4-10 UNC	7,000 lb	$40.00

**Do not exceed the safe load*

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ITCM Hardware Kits



Mount only - does not include load cell

The Isolated Tension Cell Mount (ITCM) is a mounting assembly designed for tension mounting S-beam load cells in suspended hopper assemblies and mechanical scale conversions. The ITCM incorporates clevis and unique rod end ball joint assemblies, reducing the overall length to less than half of traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents, a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further ensure load cell safety.

Standard Features

- Provides greater safety than traditional suspension configurations
- Complete package for ease of installation
- Built-in electrical isolation without having to use isolators (not available on 20,000 lb version)
- Provides correct load cell loading even in difficult installations
- Dramatically reduces overall length
- Capacities from 300 to 20,000 lb
- Clevis mounts with nylon insulating washers
- PTFE-lined rod end ball joints (not available on 20,000 lb version)
- Completely isolates load cell from stray currents
- Grounding strap for electrical continuity
- Zinc plated clevis
- Mount only: does not include load cell

Applications

- Suspended hoppers
- Mechanical scale conversions
- Replaces traditional eye bolt, isolator configurations

Part Number/Price

Part #	Load Rating	Clevis Thread	Rod End Thread	Safe Load*	Price
Mild Steel					
17968	300 lb	3/8-16	3/8-24	300 lb	$236.00
17969	300 lb	1/2-13	3/8-24	300 lb	$236.00
17894	500 lb	3/8-16	1/4-28	500 lb	$236.00
17895	500 lb	1/2-13	1/4-28	500 lb	$236.00
17896	2,000 lb	1/2-13	1/2-20	2,000 lb	$285.00
17897	2,500 lb	5/8-11	1/2-20	2,500 lb	$285.00
17898	4,000 lb	3/4-10	1/2-20	4,000 lb	$285.00
17899	5,000 lb	3/4-10	3/4-16	5,000 lb	$325.00
17900	10,000 lb	1-8	3/4-16	10,000 lb	$325.00
17958	15,000 lb (RL20000I)	1 1/4-7	1-12	15,000 lb	$1,284.00
63166	15,000 lb (RL20001)	1 1/4-7	1-14	15,000 lb	$1,229.00
17959	20,000 lb**	1 1/2-6	1 1/4-12	20,000 lb	$1,134.00
Stainless Steel					
33630	500 lb	3/8-16	3/8-24	500 lb	$643.00
33631	300 lb	1/2-13	3/8-24	300 lb	$643.00
33632	500 lb	3/8-16	1/4-28	500 lb	$643.00
33633	500 lb	1/2-13	1/4-28	500 lb	$643.00
33634	2,000 lb	1/2-13	1/2-20	2,000 lb	$774.00
33635	2,500 lb	5/8-11	1/2-20	2,500 lb	$774.00
33636	3,000 lb	3/4-10	1/2-20	3,000 lb	$774.00
33637	5,000 lb	3/4-10	3/4-16	5,000 lb	$1,124.00

** Do not exceed the safe load **Not electrically isolated*
Note: Replacement parts for mounts can be found in the Replacement Parts Catalog.

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Grounding Straps



Standard Features

- Used in the ITCM assembly
- Tinned copper braid
- Crimped sleeve on ends with 0.25 in hole
- Available in 12 in, 14 in, 16 in, 24 in or 32 in lengths

Part Number/Price

Part #	Length	Price
17778	12 in	$22.00
17779	14 in	$22.00
17780	16 in	$22.00
17781	24 in	$22.00
17782	32 in	$30.00

Ball Bearings



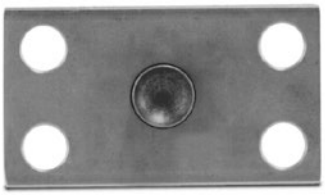
Standard Features

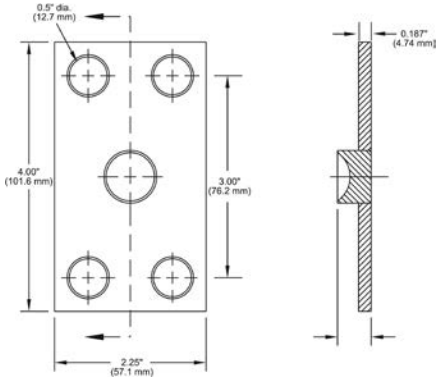
- Use with load cup and load receiver to build a custom scale
- 52100 chrome alloy steel

Part Number/Price

Part #	Drawing Dimensions	Price
18815	5/8 in diameter crush strength 32,000 lb	$16.00
18816	7/8 in diameter crush strength 59,000 lb	$18.00
65841	1.25 in diameter crush strength 100,000 lb	$37.00

Load Receiver Plate



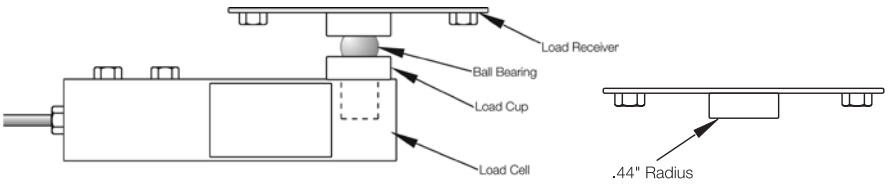


Standard Features

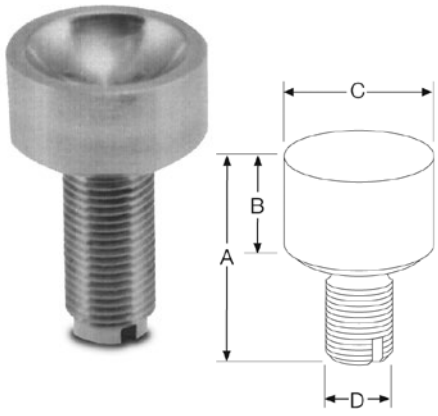
- Design offers accurate point loading
- Self-centering effect built in
- Use with load cup and ball bearings to build a custom scale
- Ball and cup load introduction provides point loading for maximum accuracy
- Stainless steel construction

Part Number/Price

Part #	Description	Price
18832	Load receiver plate	$58.00



Load Cups



Standard Features

- Ball and cup load introduction provides point loading for maximum accuracy
- For use with most popular single-ended beam load cells
- Constructed of 440C stainless steel

Part Number/Price

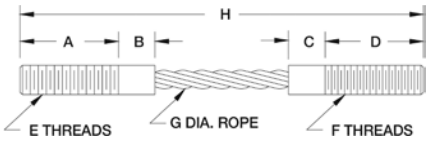
Part #	A	B	C	D	Price
31911	1.70 in	0.54 in	1.07 in	1/2-20 UNF	$58.00
212364	1.70 in	0.54 in	1.07 in	M8	$70.00
33654	1.12 in	0.54 in	0.78 in	1/2-20 UNF	$49.00
33653	1.50 in	0.80 in	1.12 in	3/4-16 UNF	$50.00
33652	2.00 in	0.85 in	1.75 in	1-12 UNF	$118.00
33651	2.85 in	0.85 in	1.75 in	1-12 UNF	$165.00
33650	2.85 in	0.85 in	1.75 in	1-14 UNF	$165.00
33647	2.75 in	0.50 in	0.75 in	1/2-20 UNF	$59.00
72364	1.78 in	0.53 in	0.78 in	1/2-20 UNF	$69.00
69431	Replacement cup for Cardinal® SCA-50,000 load cell				$143.00

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Wire Rope Assemblies

Note: Wire ropes should not be exposed to shock loads, chemicals or twisting. Chains or rods should be used as a safety backup in case of catastrophic failure.





Wire Rope Assemblies

- Wire rope assemblies provide better alignment and greatly increase load cell repeatability. In addition, they act as natural vibration dampeners.

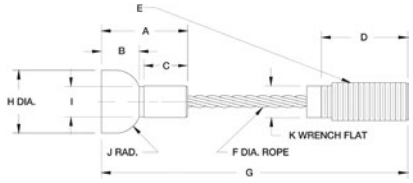
Part Number/Price

Part #	A	B & C	D	E	F	G	H	Safe Load*	Price
17760	0.87 in	0.50 in	0.87 in	1/4-20 UNC-2A	1/4-28 UNF-2A	0.12 in	4.00 in	400 lb	$58.00
17762	1.25 in	0.50 in	1.25 in	3/8-16 UNC-2A	3/8-24 UNF-2A	0.18 in	5.00 in	850 lb	$64.00
17766	1.62 in	0.50 in	1.62 in	1/2-13 UNC-2A	1/2-20 UNF-2A	0.25 in	6.50 in	1,400 lb	$66.00
17765	1.62 in	0.50 in	1.62 in	1/2-13 UNC-2A	1/2-20 UNF-2A	0.25 in	5.50 in	1,400 lb	$79.00
17764	1.00 in	-	1.37 in	1/2-20 UNF-2A	1/2-20 UNF-2A	0.25 in	4.00 in	1,400 lb	$95.00
17768	2.00 in	-	2.50 in	3/8-24 UNF-2A	3/8-24 UNF-2A	0.12 in	5.50 in	400 lb	$143.00
17769**	1.25 in	-	0.75 in	1/4-28 UNF-2A	1/4-28 UNF-2A	0.12 in	3.00 in	400 lb	$159.00
17771**	1.25 in	-	0.75 in	1/2-20 UNF-2A	1/2-20 UNF-2A	0.25 in	3.00 in	1,400 lb	$69.00
115292***	1.25 in	-	0.75 in	1/4-28 UNF-2A	1/4-28 UNF-2A	0.12 in	3.00 in	300 lb	$111.00
33084****	1.31 in	-	1.00 in	1/2-20 UNF	1/2-20 UNF	0.125 in	3.62 in	850 lb	$87.00

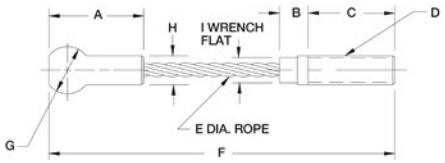
**Do not exceed the safe load **Used with Rice Lake Weighing Systems flexure bases ***Stainless steel ****Used with Rice Lake Weighing Systems FXB flexure bases*

Cardinal® Wire Rope Assemblies





Part # 17767 EL209



Part # 17763 EL208

Cardinal Wire Rope Assemblies

- EL208 Cardinal wire rope assembly:
  Used on 7,500 lb capacity FH model and 8,000 lb capacity EP model
- EL209 Cardinal wire rope assembly:
  Used on 20,000 lb capacity FH and EP models. May also be used on 15,000 lb capacity FH and EP models

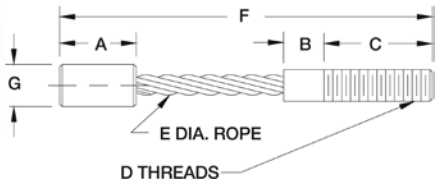
Part Number/Price

Part #	A	B	C	D	E	F	G	H	I	J	K	L & M	N	Safe Load*	Price
17763	1.50 in	-	0.50 in	1.50 in	-	1/2-13 UNC	0.25 in	6.00 in	0.81 in	0.43 in	-	-	0.43 in	1,400 lb	$126.50
17767	1.71 in	0.75 in	0.09 in	2.00 in	0.43 in	6.31 in	3/4-10 UNC-2A	1.25 in	-	0.60 in	0.50 in	0.625 in	0.375 in	2,880 lb	$247.50

**Do not exceed the safe load*

Custom Wire Ropes





Custom Wire Ropes

- When ordering, please complete Custom Wire Rope Definition form and provide a sample if possible, and specify the required tension rating and total capacity
- Wire ropes should not be exposed to shock loads, chemicals or twisting. Chains or rods should be used as safety backup in case of catastrophic failure.

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Custom Wire Rope Definition

RICE LAKE WEIGHING SYSTEMS

Customer Number:

Company: Name:

Date: Phone: Fax: Email:

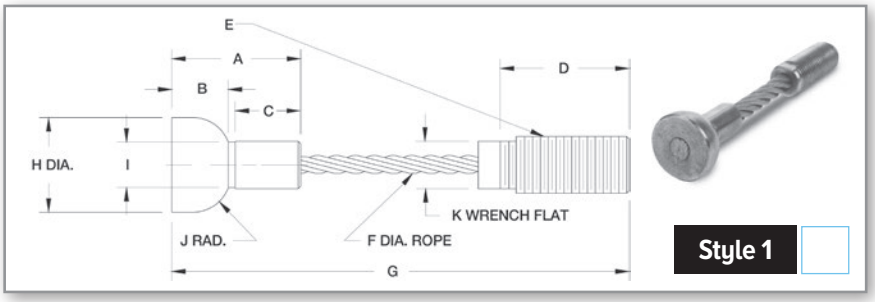
Background Information

Application Safe Load

Environment Desired Material

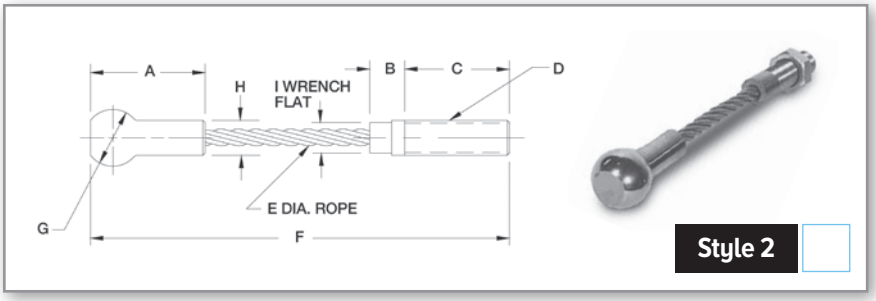
Custom Wire Rope Dimensions

Check the desired style and enter dimensions. Use drawings for reference.



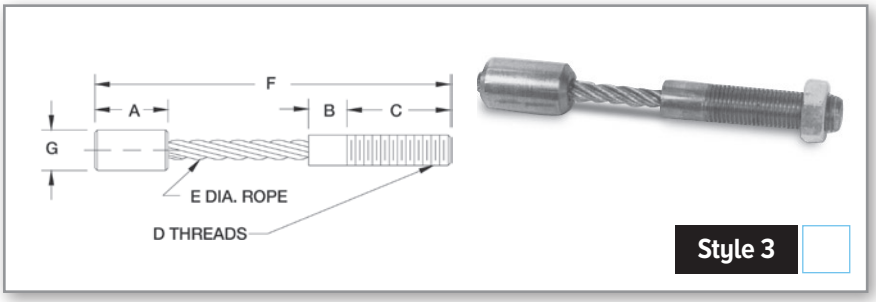
Style 1

A THREAD LENGTH		B LENGTH	
C SHANK LENGTH		D THREAD LENGTH	
E THREADS		F ROPE DIAMETER	
G OVERALL LENGTH		H BALL DIAMETER	
I SHANK DIAMETER		J RADIUS	
K WRENCH FLAT			



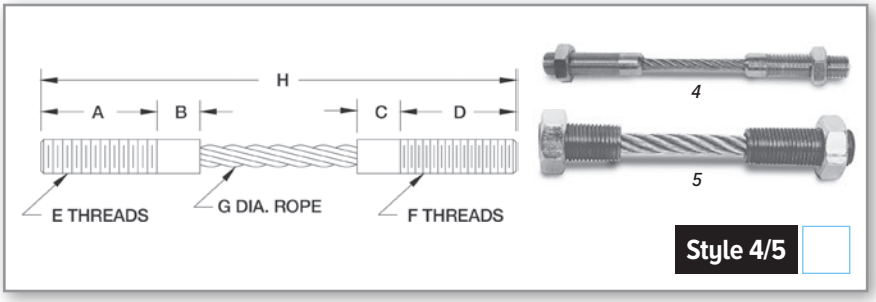
Style 2

A THREAD LENGTH		B SHANK LENGTH	
C THREAD LENGTH		D THREADS	
E ROPE DIAMETER		F OVERALL LENGTH	
G BALL DIAMETER		H SHANK DIAMETER	
I WRENCH FLAT			



Style 3

A THREAD LENGTH		B SHANK LENGTH	
C THREAD LENGTH		D THREADS	
E ROPE DIAMETER		F OVERALL LENGTH	
G SHANK DIAMETER			



Style 4/5

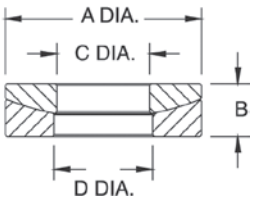
A THREAD LENGTH		B SHANK LENGTH	
C SHANK LENGTH		D THREAD LENGTH	
E THREADS		F THREADS	
G ROPE DIAMETER		H OVERALL LENGTH	

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Spherical Washer Sets

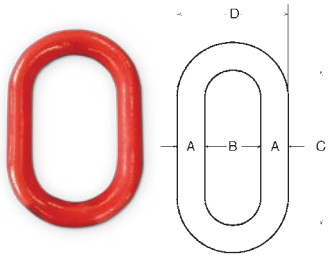




Part Number/Price

Part #	Bolt Size	A	B	C	D	Price
Mild Steel						
15196	0.25 in	0.62 in	0.20 in	0.28 in	0.31 in	$16.00
15197	0.38 in	0.88 in	0.25 in	0.41 in	0.44 in	$19.00
15198	0.50 in	1.12 in	0.31 in	0.53 in	0.56 in	$8.50
15199	0.62 in	1.38 in	0.31 in	0.66 in	0.69 in	$20.00
15200	0.75 in	1.62 in	0.38 in	0.78 in	0.81 in	$25.00
15201	1.00 in	2.00 in	0.50 in	1.06 in	1.12 in	$39.00
15202	1.25 in	2.62 in	0.50 in	1.31 in	1.38 in	$72.00
15203	1.50 in	2.88 in	0.53 in	1.56 in	1.62 in	$79.00
15205	2.00 in	3.88 in	0.81 in	2.06 in	2.12 in	$127.00
Stainless Steel						
33218	0.50 in	1.12 in	0.31 in	0.53 in	0.56 in	$27.00
33220	0.75 in	1.62 in	0.38 in	0.78 in	0.81 in	$38.00

Weldless End Links



Standard Features

- Self-colored or hot-dip galvanized finish
- Forged carbon steel quenched and tempered

Part Number/Price

Part #	A	B	C	D	Safe Load*	Price
F312L	0.625 in	1.00 in	3.25 in	2.32 in	9,300 lb	$60.00
17810	0.875 in	2.00 in	5.13 in	3.75 in	12,000 lb	$175.00
21911	1.00 in	2.25 in	5.75 in	4.25 in	15,200 lb	$344.00
65430	1.25 in	2.50 in	7.00 in	5.00 in	26,400 lb	$159.00
21912	1.375 in	2.75 in	7.75 in	5.50 in	30,000 lb	$488.00

**Do not exceed the safe load*

Load Cell Spacers

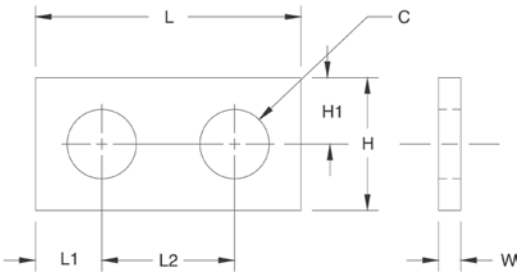


Standard Features

- Use with most popular single-ended beams
- Provides flat mounting surface required for optimal load cell performance
- Zinc-plated mild steel or stainless steel

Part Number/Price

Part #	C	H	H1	L	L1	L2	W	Price
Mild Steel								
17754	0.53 in	1.25 in	0.62 in	2.25 in	0.62 in	1.00 in	0.25 in	$29.00
17755	0.78 in	1.50 in	0.75 in	3.00 in	0.75 in	1.50 in	0.25 in	$29.00
17756	1.03 in	2.00 in	1.00 in	4.00 in	1.00 in	2.00 in	0.25 in	$30.00
18260	0.53 in	1.25 in	0.62 in	2.25 in	0.62 in	1.00 in	0.37 in	$31.00
Stainless Steel								
17757	0.78 in	1.50 in	0.75 in	3.00 in	0.75 in	1.50 in	0.25 in	$37.00
18383	0.53 in	1.25 in	0.62 in	2.25 in	0.62 in	1.00 in	0.37 in	$32.00
18411	0.53 in	1.25 in	0.62 in	2.25 in	0.62 in	1.00 in	0.25 in	$33.00



Load Button



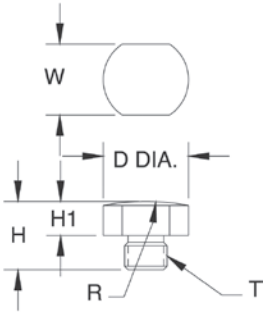
Standard Features

Load Button

- Suitable for use with compression mounting assemblies, canisters, S-beams and single-ended beams
- Hardened alloy steel

Part Number/Price

Part #	T	D	H	H1	R	W	Price
17750	3/8-24 UNF	0.75 in	0.60 in	0.30 in	2.00 in	0.63 in	$37.00
17751	1/2-20 UNF	0.75 in	0.70 in	0.30 in	4.00 in	0.63 in	$32.00
17752	3/4-16 UNF	1.50 in	0.90 in	0.30 in	6.00 in	1.25 in	$50.00



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Load Button Insert Kit



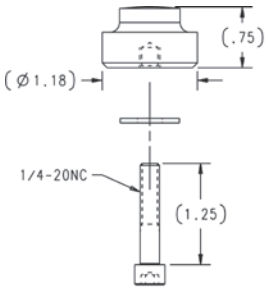
Standard Features

Load Button Insert Kit

- To be used with RLSSB and VPG Revere SSB load cells (1,000 to 5,000 lb)
- Hardened alloy steel

Part Number/Price

Part #	Description	Price
26112	Load button insert kit	$37.00



Surefoot™



Standard Features

- Replacement foot, adapts to most floor scales
- Use with single-ended beams to provide large, flat, adjustable introduction surface
- Special neoprene rubber sandwich base gives high accuracy, linearity and repeatability

Part Number/Price

Part #	Material	Thread Size	Base Ht.	Total Ht.	Diameter	Price
18756	Stainless steel	1/2-20 UNF	0.75 in	2.62 in	3.47 in	$50.00
39021	Mild steel	3/4-16 UNF-2B	0.875 in	3.25 in	4.40 in	$93.00
39022	Mild steel	3/4-16 UNF-2B	0.875 in	4.06 in	5.40 in	$135.00
110930	Mild steel	1-14 UNF	1.00 in	4.06 in	5.40 in	$235.00
42130	Stainless steel	M12	0.75in	2.62 in	3.47 in	$103.00

Flintec® Adjustable Rubber Foot



SLB, SB4, SB5, SB14 and SB6



BK2

Standard Features

- Blind hole introduction
- Low profile
- Height adjustable by rotation
- Includes spacer
- Stainless steel

Part Number/Price

Part #	Foot Diameter	Load Cell Capacity	Price
SLB, SB4, SB5, SB14 and SB6			
46230	2.36 in	200 to 500 lb	$65.00
77561	3.14 in	1,000 to 5,000 lb	$65.00
BK2			
87096	3.140 in	200 to 2,000 kg	$65.00

Bench Scale Feet



107476 *19141* *35128*

Standard Features

- Rubber pad, 1/4-20 UNC thread
- Stainless steel, 3/8-16 UNC thread

Part Number/Price

Part #	Description	Price
Rubber Pad		
35128	Bench scale feet	$14.00
107476	CW-90/CW-90X feet	$21.00
Stainless Steel		
19141	Bench scale feet	$8.00

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Polyurethane Rubber Leveling Feet



Standard Features

- Stainless steel stem for corrosion resistance
- Heavy-duty construction, low-cost replacement feet
- Four standard diameters all with 1/2-20 UNF stainless steel stud, slotted for top-access applications
- Stainless steel jam nut provided
- Top of stud is machined undersize 10% for easy alignment into load cell

Part Number/Price

Part #	Foot Diameter	Height	Price
74585	1.87 in	3.00 in	$32.00
74586	2.00 in	3.00 in	$32.00
74587	2.50 in	3.00 in	$32.00
73801	3.00 in	3.00 in	$32.00

Captured Ball Floor Scale Leveling Feet



Carbon



Stainless Steel

Standard Features

Carbon steel

- Bright zinc and clear chromate plating for corrosion resistance
- Active ball suspension provides ideal load cell loading with maximum side load protection
- Hardened alloy steel with plated finish
- Includes one jam nut in carbon steel and stainless steel feet
- Top of stud is machined undersized 10% for easy alignment into load cell plus slotted for top-access applications

Stainless steel

- Provides outstanding accuracy, repeatability and performance
- Active ball suspension provides optimal load cell performance
- Hardened stainless steel material, welded with polished finish
- Includes one jam nut in carbon steel and stainless steel feet
- Top of stud is machined undersized 10% for easy alignment into load cell plus slotted for top-access applications

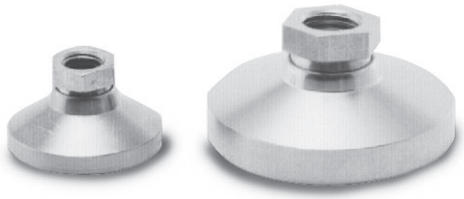
Part Number/Price

Part #	Foot Diameter	Thread Size Inches	Height	Price
Carbon Steel				
74578	1.87 in	1/2-20 UNF	3.50 in	$45.00
74579	2.00 in	1/2-20 UNF	3.50 in	$45.00
74580	2.50 in	1/2-20 UNF	3.50 in	$45.00
74581	3.00 in	1/2-20 UNF	3.50 in	$45.00
74582	3.00 in	3/4-16 UNF	4.50 in	$56.00
74583	3.00 in	1-12 UNF	4.50 in	$67.00
74584	3.00 in	1-14 UNF	4.50 in	$67.00
171449	3.00 in	1-14 UNF	5.00 in	$83.00
173018	4.40 in	3/4-16 UNF	3.13 in	$96.00
174937	5.40 in	3/4-16 UNF	4.13 in	$139.00
Stainless Steel				
74572	1.87 in	1/2-20 UNF	3.50 in	$80.00
74573	2.00 in	1/2-20 UNF	3.50 in	$80.00
73800	2.50 in	1/2-20 UNF	3.50 in	$80.00
74574	3.00 in	1/2-20 UNF	3.50 in	$80.00
74575	3.00 in	3/4-16 UNF	4.50 in	$113.00
74576	3.00 in	1-12 UNF	4.50 in	$136.00
74577	3.00 in	1-14 UNF	4.50 in	$136.00
92380*	2.50 in	1/2-20 UNF	3.50 in	$80.00
175615	3.47 in	1/2-20NF	2.62 in	$108.00

**Stem is fully threaded*

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Leveling Pads



Standard Features

- Replacement feet adapt to most floor scales
- Available in mild steel or stainless steel
- Simple swivel design
- Use with single-ended shear beams or bending beams to provide a large, flat load introduction surface

Part Number/Price

Part #	Thread Size	Height	Diameter	Price
Mild Steel				
18817	1/2-13 NC	1.12 in	1.87 in	$27.00
18820	3/4-10 NC	1.50 in	3.00 in	$47.00
Stainless Steel				
18818	1/2-13 NC	1.12 in	1.87 in	$63.00
18833	3/4-10 NC	1.50 in	3.00 in	$109.00

Used in conjunction with leveling pad stems

Leveling Mount



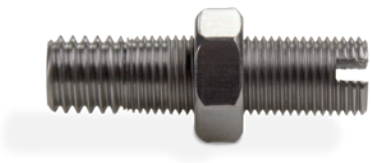
Standard Features

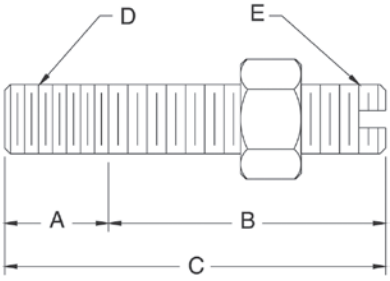
- Designed for use with some floor scales or machinery platforms
- Can limit vibrations transmitted to the scale through the floor
- Provides vibration isolation on most portable platforms

Part Number/Price

Part #	Thread Size	Height	Diameter	Price
18819	1/2-13 NC	1.81 in	5.00 in	$106.00

Leveling Pad Stems





Standard Features

- For use with leveling pads
- One jam nut included

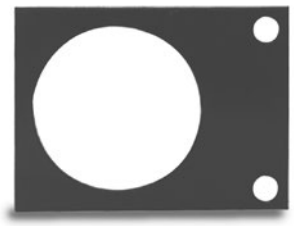
Part Number/Price

Part #	A	B	C	D	E	Slot	Material	Price
Mild Steel								
17693	0.75 in	2.00 in	2.75 in	3/4-10 UNC	3/4-16 UNF	No	1045	$17.00
Stainless Steel								
17689	0.50 in	1.50 in	2.00 in	1/2-13 UNC	1/2-20 UNF	Yes	Stainless steel	$25.00
17695	0.75 in	2.00 in	2.75 in	3/4-10 UNC	3/4-16 UNF	No	Stainless steel	$40.00

Warning: Do not use to suspend a load

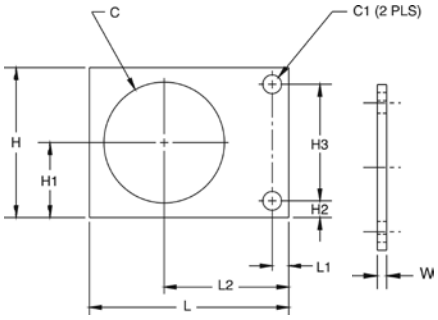
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RoughDeck® Scale Base



Standard Features

- Secures RoughDeck and other popular floor scales
- Prevents movement in horizontal plane
- Useful with SureFoot™ and other load cell foot assemblies
- Available in stainless steel and mild steel



Part Number/Price

Part #	Description	Price
19075	Mild steel, 1,000 to 10,000 lb	$19.00
19076	Stainless steel, 1,000 to 10,000 lb	$25.00

Dimensions

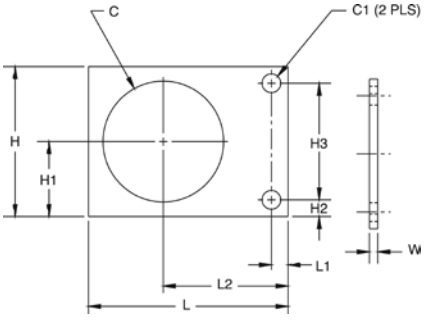
Part #	C	C1	H	H1	H2	H3	L	L1	L2	W
19075	3.62 in	0.56 in	4.50 in	2.25 in	0.50 in	3.50 in	6.00 in	0.50 in	3.75 in	0.25 in
19076	3.62 in	0.56 in	4.50 in	2.25 in	0.50 in	3.50 in	6.00 in	0.50 in	3.75 in	0.25 in

Summit® 3000 Scale Base



Standard Features

- Mounting plate for Summit 3000 floor scales



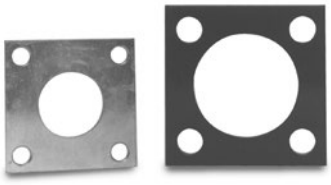
Part Number/Price

Part #	Description	Price
76149	Mild steel, 2,000 to 10,000 lb	$19.00

Dimensions

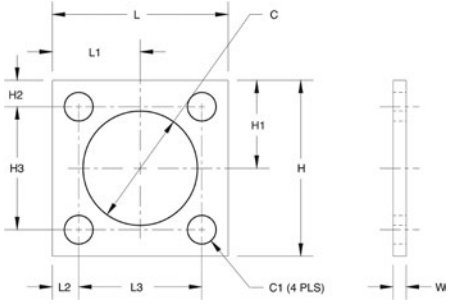
Part #	C	C1	H	H1	H2	H3	L	L1	L2	W
76149	3.19 in	0.56 in	4.50 in	2.25 in	0.50 in	3.50 in	6.00 in	0.50 in	3.75 in	0.25 in

Floor Scale Base



Standard Features

- Suitable for use with leveling pads
- Generic mounting plate for popular floor scales
- Fits most floor scale foot assemblies
- Available in stainless steel and mild steel (mild steel parts are zinc plated/painted)



Part Number/Price

Part #	Description	Price
18737	Mild steel, 1,000 to 10,000 lb	$9.00
18738	Mild steel, 10,000 to 20,000 lb	$10.00
18751	Stainless steel, 1,000 to 10,000 lb	$34.00

Dimensions

Part #	C	C1	H	H1	H2	H3	L	L1	L2	L3	W
18737	2.00 in	0.53 in	4.00 in	2.00 in	0.50 in	3.00 in	4.00 in	2.00 in	0.50 in	3.00 in	0.25 in
18738	3.25 in	0.81 in	5.00 in	2.50 in	0.75 in	3.50 in	5.00 in	2.50 in	0.75 in	3.50 in	0.38 in
18751	2.00 in	0.53 in	4.00 in	2.00 in	0.50 in	3.00 in	4.00 in	2.00 in	0.50 in	3.00 in	0.25 in

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Complete Custom Cable Services



Approvals

Standard Features

- Special cable requirements
- Custom-built cable designed specifically for your application
- Choose from design elements and Rice Lake Weighing Systems will build a cable to your specifications
- Quick turnaround
- Competitively priced
- 5,000 ft minimum purchase

Specifications

Jacket Material:
PVC
Polyurethane
Double-jacketed

Conductors:
Unlimited number
Twisted pairs
Color code
Gauge

Shielding:
Braided
Foil

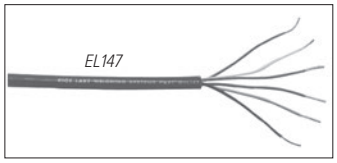
Jacket Colors:
Black, brown, green, orange, red, blue, yellow, gray, natural

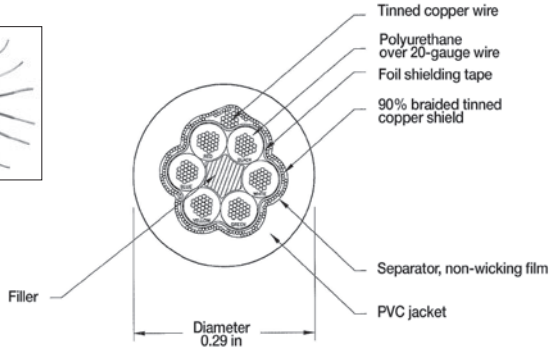
Ink Colors:
Black, white, silver, orange
Custom logos

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EL147, 6 Wire

Standard Load Cell Cable





Standard Features

EL147 Standard Cable

- 20 AWG tinned copper wire stranded for flexibility
- Braided shielding is encased in red PVC
- All conductors are industry-standard color-coded
- Diameter: 0.29 in
- The six-wire cable is best suited for longer runs where remote sense lines can be used
- Temperature rating:
  -22 °F to 126 °F (-30 °C to 80 °C)

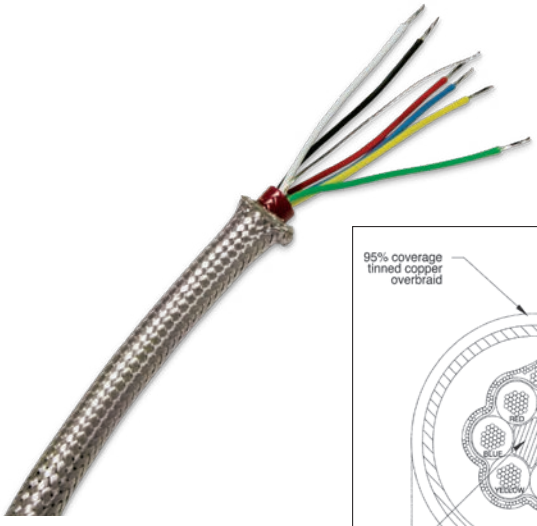
Approvals

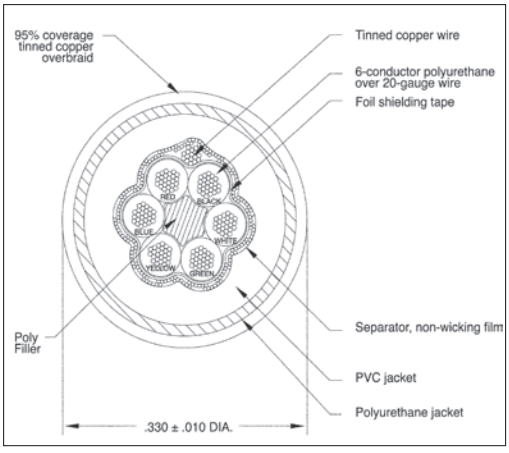
Part Number/Price

Part #	Continuous Roll	Description	Price
15515	100 ft	Six-conductor cable	$245.00
15516	250 ft	Six-conductor cable	$535.00
15517	500 ft	Six-conductor cable	$950.00
15518	1,000 ft	Six-conductor cable	$1,875.00
15495	Custom length	Six-conductor cable	$2.45/ft

EL147RP Plus, 6 Wire

Rodent Protection Load Cell Cable





Standard Features

EL147RP Rodent Protection Cable

- Tinned copper overbraid provides superior rodent and abrasion deterrent
- Enhanced EMI/RFI protection
- Six-conductor industry-standard color-coded
- Ideal for truck and railroad-track scales
- Diameter: 0.33 in
- Temperature rating:
  -22 °F to 176 °F (-30 °C to 80 °C)
- Jacket coating enhanced with a chemical coating "NAW" that is distasteful to rodents

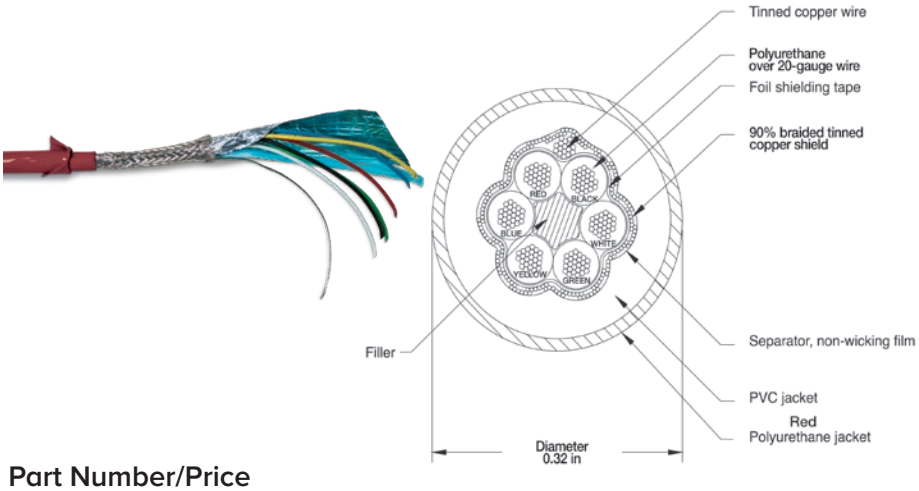
Part Number/Price

Part #	Continuous Roll	Description	Price
31475	Custom length	Six-conductor rodent protection cable	$4.25/ft
131964	100 ft	Six-conductor rodent protection cable	$415.00
131965	250 ft	Six-conductor rodent protection cable	$950.00
131966	500 ft	Six-conductor rodent protection cable	$1,875.00
131967	1,000 ft	Six-conductor rodent protection cable	$3,595.00

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EL147HE, 6 Wire

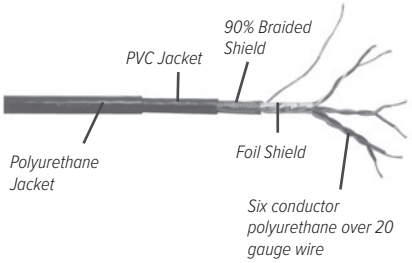
Hostile Environment Load Cell Cable



Standard Features

EL147HE Hostile Environment Cable

- Designed for use in hostile environments
- Polyurethane jacketing provides superior chemical and abrasion resistance
- RFI and EMI protected with foil overbraid shield
- Unmatched durability, yet extremely flexible
- All conductors are industry-standard color-coded
- Diameter: 0.32 in
- Temperature rating: -22 °F to 176 °F (-30 °C to 80 °C)



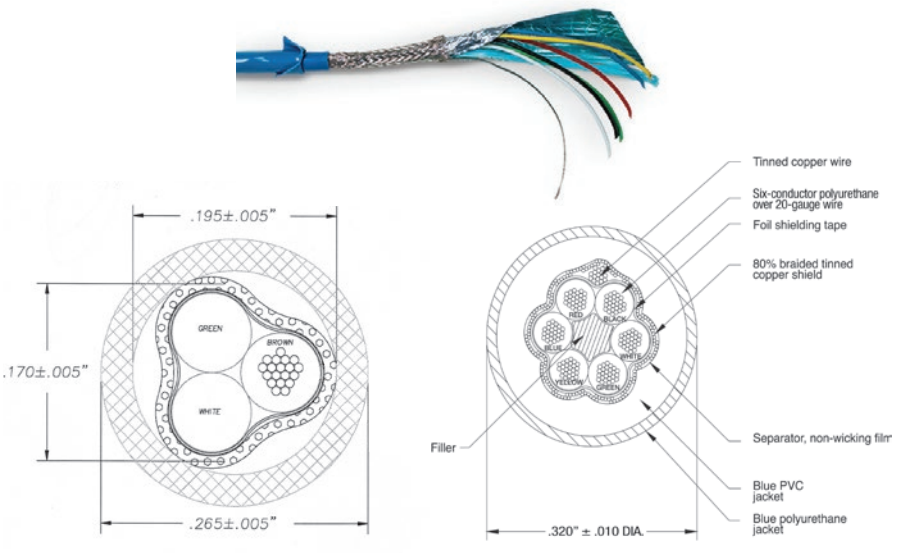
Part Number/Price

Part #	Continuous Roll	Description	Price
15520	100 ft	Six-conductor hostile environment cable	$285.00
15521	250 ft	Six-conductor hostile environment cable	$675.00
15522	500 ft	Six-conductor hostile environment cable	$1,225.00
15523	1,000 ft	Six-conductor hostile environment cable	$2,125.00
15496	Custom length	Six-conductor hostile environment cable	$2.95/ft

HARDWARE AND ACCESSORIES

EL147IS, 6 Wire

Hazardous Environment Blue Jacket Load Cell Cable

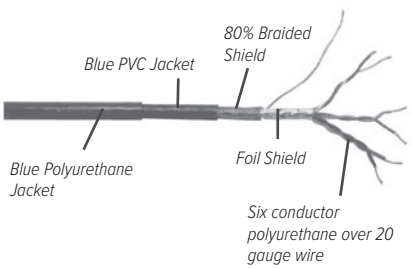


Three-conductor cable

Standard Features

EL147IS Hazardous Environment Blue Jacket Cable

- Designed for intrinsically safe applications (must be wired according to Factory Mutual System-approved diagram)
- Polyurethane over PVC double jacketing provides superior chemical and abrasion resistance
- Both foil and braided wire shields for added RFI and EMI protection
- Six-conductor is industry-standard color-coded (Also available three-conductor)
- Suited for longer runs where remote sense lines can be used
- Temperature rating: -22 °F to 176 °F (-30 °C to 80 °C)
- Diameter: 0.32 in



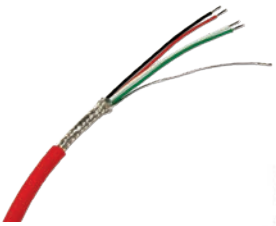
Part Number/Price

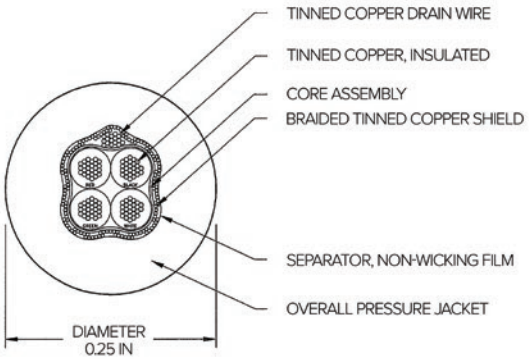
Part #	Description	Price
32817	EL147IS, blue jacket six-conductor	$3.65/ft
72241	Blue jacket, shielded three-conductor, UL and CSA recognized	$3.15/ft

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EL146, 4 Wire

Standard Load Cell Cable





Approvals

Standard Features

EL146 Standard Cable

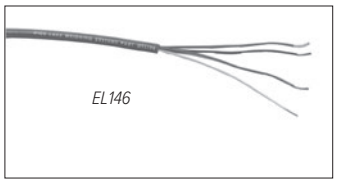
- Four-wire load cell cable
- 20 AWG tinned copper wire stranded for flexibility
- Braided shielding is encased in red PVC
- All conductors are industry-standard color-coded
- Diameter: 0.25 in
- Use the four-wire cable for repairing or extending existing cable
- Temperature rating:
  -22 °F to 126 °F (-30 °C to 80 °C)

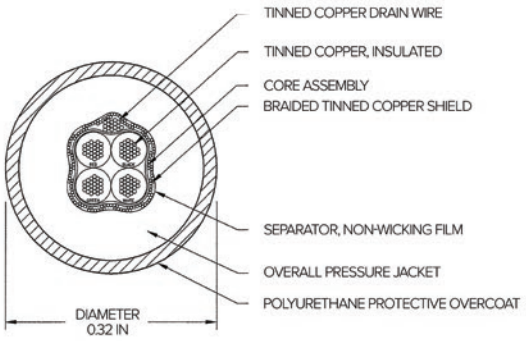
Part Number/Price

Part #	Continuous Roll	Description	Price
15505	100 ft	Four-conductor cable	$155.00
15506	250 ft	Four-conductor cable	$375.00
15507	500 ft	Four-conductor cable	$725.00
15508	1,000 ft	Four-conductor cable	$1,150.00
15493	Custom length	Four-conductor cable	$1.65/ft

EL146HE, 4 Wire

Hostile Environment Load Cell Cable





Standard Features

EL146HE Hostile Environment Cable

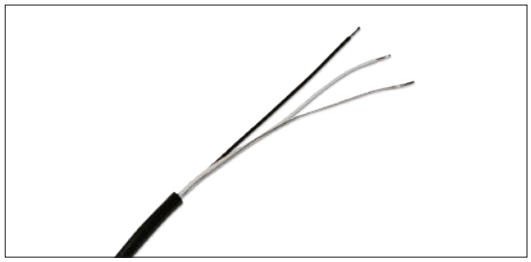
- Designed for use in hostile environments
- Polyurethane jacketing provides superior chemical and abrasion resistance
- RFI and EMI protected with foil overbraid shield
- Unmatched durability, yet extremely flexible
- All conductors are industry-standard color-coded
- Diameter: 0.32 in
- Temperature rating:
  -22 °F to 176 °F (-30 °C to 80 °C)

Part Number/Price

Part #	Continuous Roll	Description	Price
15510	100 ft	Four-conductor hostile environment cable	$195.00
15511	250 ft	Four-conductor hostile environment cable	$465.00
15512	500 ft	Four-conductor hostile environment cable	$875.00
15513	1,000 ft	Four-conductor hostile environment cable	$1,750.00
15494	Custom Length	Four-conductor hostile environment cable	$2.10/ft

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EL144 Communications Cable



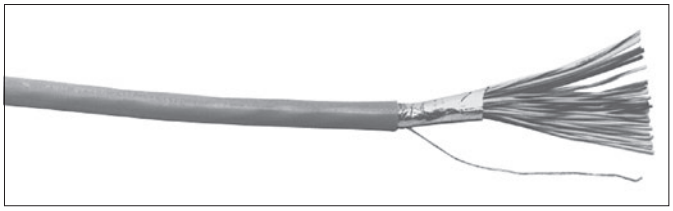
Standard Features

- Two-conductor with bare ground
- RFI/EMI protected with foil shield
- 20 gauge conductors
- Perfect for RS-232, two-wire RS-485 and 20 mA current loop communications
- Diameter: 0.19 in
- Conductor colors are black and white

Part Number/Price

Part #	Description	Price
32803	EL144	$1.30/ft
72691	EL144, 100 ft	$115.00
72072	EL144, 500 ft	$495.00
72693	EL144, 1,000 ft	$925.00

BCD Cable



Standard Features

- Sheathed in gray PVC
- Mylar aluminum foil shield with stranded tinned copper drain wire
- Diameter: 0.375 in

Part Number/Price

Part #	Description	Price
15497	BCD, 24 AWG, 30-conductor	$35.00/ft

Fiber-optic Cable



Color Code: Black-TXD, Blue-RXD

Standard Features

- Duplex cable polyethylene black jacket material
- Plastic fiber core
- 4.4 + 0.10 mm outer diameter of duplex cable
- 2.2 + 0.007 mm single cable outer diameter
- Operating temperature: 32 °F to 158 °F (0 °C to 70 °C)

Part Number/Price

Part #	Description	Price
78910	Custom length	$1.85/ft
78026	100 ft cable	$185.00
78027	200 ft cable	$350.00
78028	300 ft cable	$447.00
83052*	Fiber-optic connector	$55.00
80892	Fiber-optic cable cutter	$15.00
85548	Fiber-optic hot knife	$75.00

**Duplex fiber cable requires two connectors*

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SURVIVOR® EL620HE

High Temperature Cable



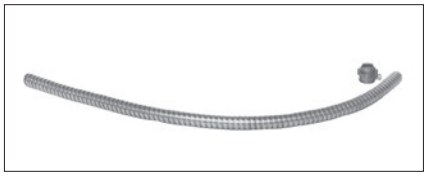
Standard Features

- Multi-conductor overall foil and braid shield
- Suitable for temperatures from -40 °C (-40 °F) to 200 °C (392 °F)
- Insulation thickness: 0.010 in
- Jacket thickness: 0.017 in
- 18 gauge, tinned copper conductors
- Six-conductor
- FEP jacket, resistant to chemical corrosion and high temperature
- Aluminum-polyester shield with 85% tinned copper braid shield
- 150 V NEC 725 Class 2 classified for use in an air plenum non-conduit
- 0.24 in diameter cable

Part Number/Price

Part #	Description	Price
15605	EL620HE	$17.00/ft

SURVIVOR® Cable Armor



Standard Features

- Flexible all-metal protective armor
- Ideal for protecting load cell cable from mechanical abrasion or rodents
- Available in stainless steel and galvanized steel
- 0.5 in internal diameter, 2.0 in minimum bend radius
- Optional end fitting with 1/2 in male pipe thread

Part Number/Price

Part #	Description	Price
17808	Galvanized steel	$4.75/ft
17806	Stainless steel	$5.75/ft
17807	Optional end fitting	$2.85 each

HARDWARE AND ACCESSORIES

EL148HE Mettler Toledo®

Power Cell Replacement Cable



Standard Features

- 100% stainless steel military connector-electro deposited nickel plating with stainless banding and epoxy heat-shrink strain relief
- Stainless steel arctic ring precision cut for improved connection
- Textured rubber boot for additional grip
- Standard Mettler Toledo color code
- Compatible with Mettler Toledo Powercell CMOS/NMOS and MTX load cells. NOT compatible with Mettler Toledo PDX load cells.
- Custom lengths available

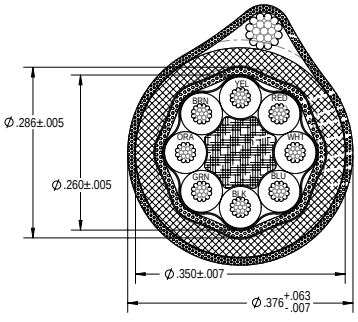
Part Number/Price

Part #	Cable Length Each	Price
100268	8 ft	$395.00
101102	12 ft	$415.00
104164	15 ft	$395.00
100269	26 ft	$435.00
100270	35 ft	$450.00

Mettler Toledo® Power Cell®

Homerun Cable





Standard Features

- Galvanized steel drain wire
- 20 gauge 8 conductors
- Stainless steel braid shield

Part Number/Price

Part #	Description	Price
194837	Galvanized steel	$8.75/ft

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Load Cell Conduit Adapters



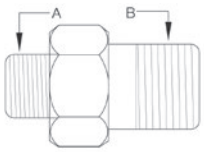
31534



31535



31533



Standard Features

- Used to adapt conduit to load cells
- 303 stainless steel

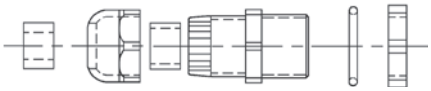
Part Number/Price

Part #	A	B	Price
Thread-On			
31533	3/8-24 UNF	—	$40.00
31534	—	1/4-18 NPT	$40.00
31535	5/8-18 UNF	1/2-14 NPT	$40.00

Note: 31533 and 31534 are used together to form male-to-male adapter

Cord Grip Assemblies





Standard Features

- Assemblies include cord grip, locknut, O-ring seal, gray and black reducer glands
- Fittings are made of weather- and corrosion-resistant nylon

Part Number/Price

Gland Cable Ranges					
Part #	**Thread**	**Panel Hole Diameter**	**Regular (Black)**	**Reducer (Gray)**	**Price**
15669	PCN9	0.625 in	0.157 to 0.314 in	0.118 to 0.236 in	$5.50
15670	3/8 NPT	0.687 in	0.157 to 0.314 in	0.118 to 0.236 in	$5.00
15671	1/2 NPT	0.844 in	0.236 to 0.472 in	0.200 to 0.354 in	$5.75

EL214 Cable Splicing Kit



Standard Features

EL214

- Designed for a complete, professional transducer cable splice
- Prevents moisture from entering the load cell through the cable connector
- Each kit contains a high-impact plastic splicing box, liquid-tight cable fittings, circuit card, PTFE sleeving, pre-measured potting compound and complete instructions
- Solder terminals

Specifications

Dimensions:
(L × W × H)
3.00 × 1.00 × 1.50 in

Mounting Centers:
2.50 in

Number of Connections:
Seven

Cable Diameter:
0.187 to 0.312 in

Cure Time For Potting:
Two hours at 73 °F (23 °C)

Part Number/Price

Part #	Description	Price
15485	EL214	$155.00

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EL214T Cable Splicing Kit



Standard Features

EL214T

- Designed to accommodate cables larger than the EL214; all other dimensions and performance features are the same
- Solder terminals

Specifications

Dimensions:
(L × W × H)
3.00 × 1.00 × 1.50 in

Mounting Centers:
2.50 in

Number of Connections:
Seven

Cable Diameter:
0.187 to 0.312 in

Cure Time For Potting:
Two hours at 73 °F (23 °C)

Part Number/Price

Part #	Description	Price
15486	EL214T	$210.00

EL215 Cable Splicing Kit



Standard Features

- Designed for use in weather-exposed or direct-burial locations
- Each kit contains plastic splicing tube, circuit board, insulating resin and instructions
- Solder terminals

Specifications

Dimensions:
(L × W)
6.00 × 1.38 in

Number of Connections:
7

Cable Diameter:
Up to 0.75 in

Cure Time For Potting:
2 hours at 70 °F (21 °C)

Part Number/Price

Part #	Description	Price
15612	EL215	$250.00

Flintec® Load Cell Cable

Replacement Kits



Standard Features

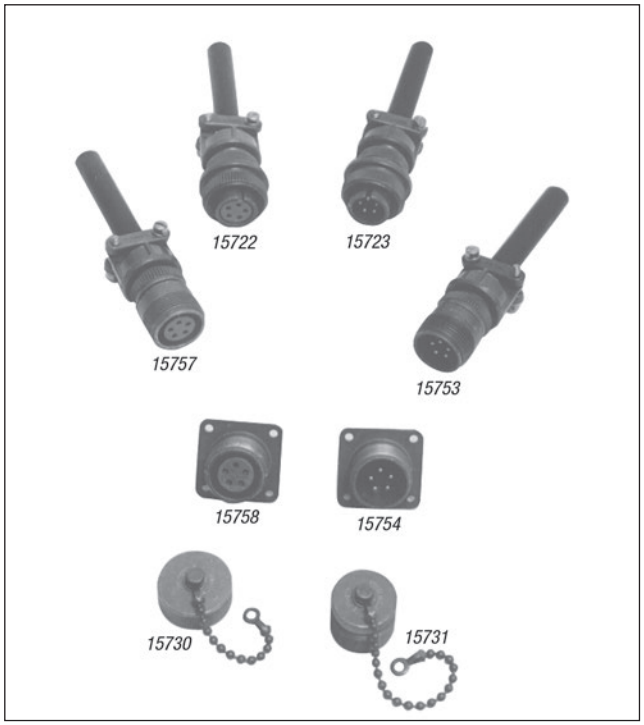
- Each kit includes cable for four Flintec SB4 load cells as listed

Part Number/Price

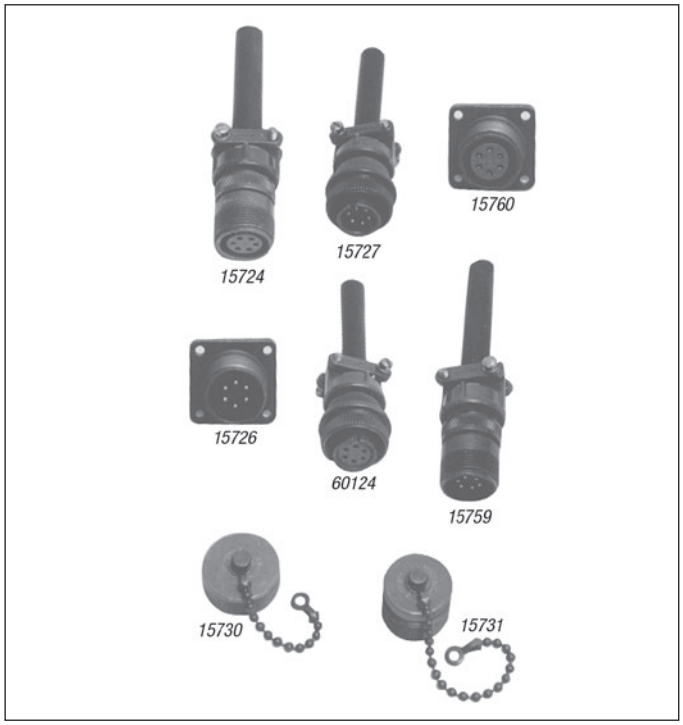
Part #	Description	Cable Length Ea. Feet	Price
18412	For SB4, 225 to 5,200 lb	10 ft	$385.00
18413	For SB4, 11,250 to 22,500 lb	15 ft	$415.00

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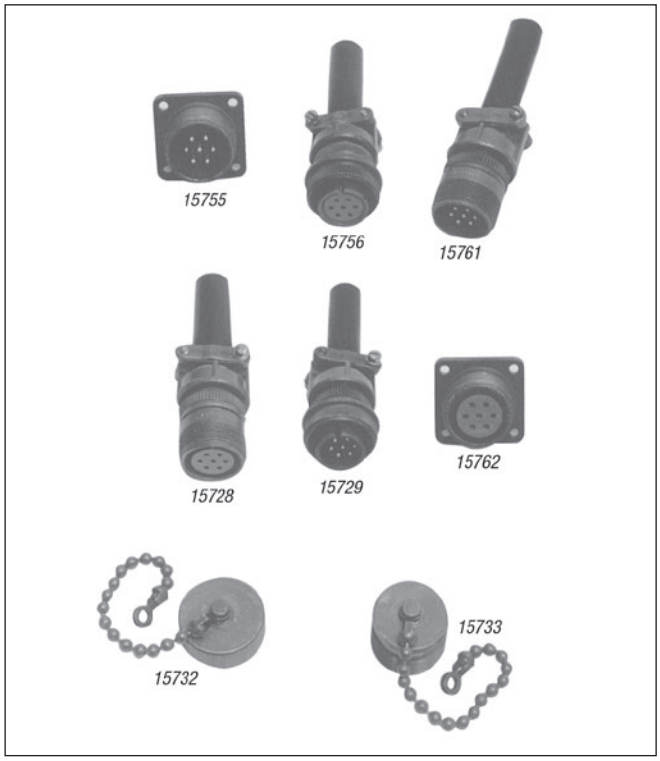
Five-Position Connectors, Shell Plugs, Receptacles



Six-Position Connectors, Shell Plugs, Receptacles



Seven-Position Connectors, Shell Plugs, Receptacles



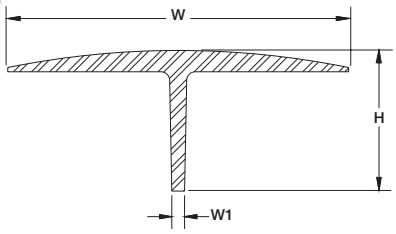
Part Number/Price

Part #	Description	Price
15753	Five-pin, external thread	$35.00
15722	Five-socket, internal thread	$36.00
15723	Five-pin, internal thread	$35.00
15757	Five-socket, external thread	$40.00
15754	Five-pin chassis mount, external thread	$40.00
15758	Five-socket chassis mount, external thread	$26.00
15730	Dust cap for ext. thread five-position connector	$17.00
15731	Dust cap for int. thread five-position connector	$22.00
15759	Six-pin, external thread, male	$35.00
60124	Six-socket, internal thread connector, female fits Toledo load cells, Condec indicators	$30.00
15727	Six-pin, internal thread, male	$34.00
15724	Six-socket, external thread	$38.00
15726	Six-pin chassis mount, external thread	$27.00
15760	Six-socket chassis mount, external thread	$26.00
15730	Dust cap for ext. thread six-position connector	$17.00
15731	Dust cap for int. thread six-position connector	$22.00
15761	Seven-pin, external thread	$36.00
15756	Seven-socket, internal thread	$38.00
15729	Seven-pin, internal thread	$38.00
15728	Seven-socket, external thread	$38.00
15755	Seven-pin chassis mount, external thread	$27.00
15762	Seven-socket chassis mount, external thread	$30.00
15732	Dust cap for ext. thread seven-position connector	$23.00
15733	Dust cap for int. thread seven-position connector	$34.00

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T-Grip Molding





Standard Features

T-Grip

- Designed for use in truck scale applications to prevent spillover into the pit
- Impact, tear and weather-resistant EPDM rubber
- Barbed web to hold molding in place
- Web thickness 0.22 in
- Available by the foot: 10 ft, 11 ft, 70 ft, 80 ft and 100 ft lengths
- Maximum continuous length is 450 ft

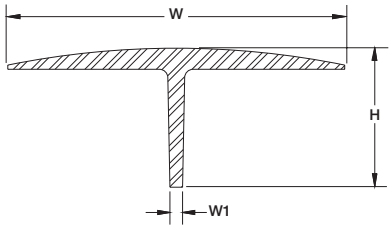
Part Number/Price

Part #	H	W	W1	Length	Price
18799	2.56 in	5.75 in	0.22 in	Sold by the foot	$13.00/ft
18800	2.56 in	5.75 in	0.22 in	10 ft	$100.00
18801	2.56 in	5.75 in	0.22 in	11 ft	$110.00
18802	2.56 in	5.75 in	0.22 in	70 ft	$795.00
33219	2.56 in	5.75 in	0.22 in	80 ft	$895.00
33222	2.56 in	5.75 in	0.22 in	100 ft	$1,125.00
234302	2.56 in	5.75 in	0.22 in	250 ft	$2,800.00
234303	2.56 in	5.75 in	0.22 in	450 ft	$5,500.00

Note: Maximum continuous length is 450 ft. Call for price and availability.

T-Strip Molding





Standard Features

T-Strip

- Designed for use in truck scale applications to prevent spillover into the pit
- Impact, tear and weather-resistant SBR rubber
- Web thickness 0.25 in
- Available by the foot: 10 ft, 11 ft, 70 ft, 80 ft and 100 ft lengths
- Maximum continuous length is 450 ft

Part Number/Price

Part #	H	W	W1	Length	Price
18736	2.00 in	4.50 in	0.25 in	Sold by the foot	$12.00/ft
18776	2.00 in	4.50 in	0.25 in	10 ft	$95.00
18797	2.00 in	4.50 in	0.25 in	11 ft	$105.00
18798	2.00 in	4.50 in	0.25 in	70 ft	$695.00
33223	2.00 in	4.50 in	0.25 in	80 ft	$825.00
33224	2.00 in	4.50 in	0.25 in	100 ft	$1,025.00

Note: Maximum continuous length is 450 ft. Call for price and availability.

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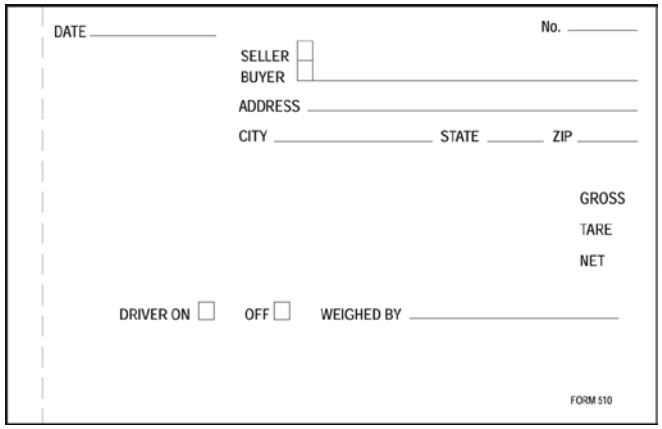
Electronic Scale Tickets

Standard Features

Hecon® Printers, EL522 & EL516 - 20266

- Triplicate interleaved
- Size (L × W): 7.875 × 4.25 in (200 × 127 mm)
- Order quantity: 500 per package
- Carbonless

20266

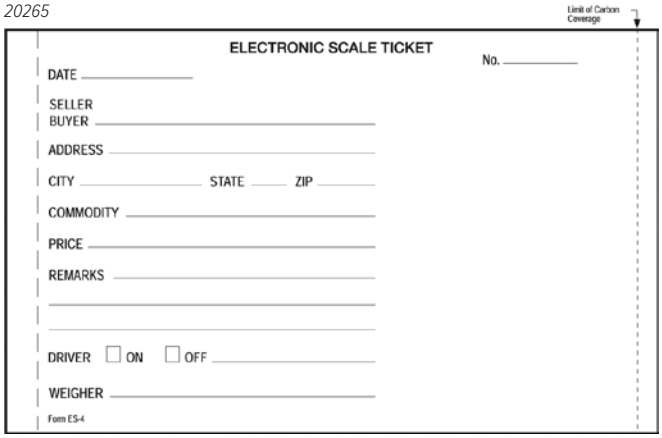


Standard Features

SP2200, SP2000 - 20265

- Triplicate interleaved, perforated and glued on one end
- Size (W × L): 5.5 × 9 in (139.7 × 228.6 mm)
- Order quantity: 500 per package
- Carbonless

20265



Standard Features

Rice Lake Scales - 71630 or 105182

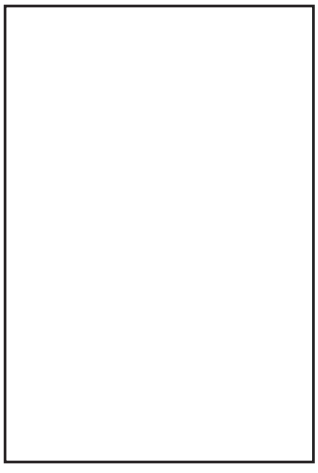
- Duplicate or triplicate
- Size (W × L): 4.25 × 7 in (107 × 177.8 mm)
- Attached at 4.25 side
- Order quantity: 500 per package
- Custom (duplicate): Add company name (min. order two packs)
- Custom (triplicate): Add company name (min. order two packs)
- Carbonless



Standard Features

Blank Scale Ticket - 22263

- Triplicate
- White, canary yellow and pink
- Size (L × W): 5.50 × 4.25 in (140 × 108 mm)
- Attached at 4.25 edge
- Order quantity: 100 per package
- Custom: Add company name (min. order of 1,000)
- Carbonless



Part Number/Price

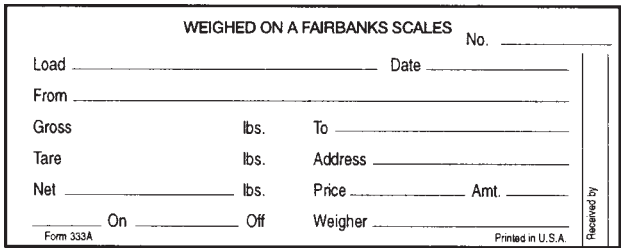
Part #	Description	Price
20266	Hecon printers, EL522 & EL516, 500/pack	$110.40
20265	SP2200, SP2000, EL250 & EL500, 500/pack	$114.00
71630	Rice Lake ticket, two part, 500/pack	$60.00
105182	Rice Lake ticket, three part, 500/pack white, canary yellow, pink	$86.50
22263	Blank scale ticket, 100/pack	$25.00 each

Mechanical Scale Tickets

Standard Features

Fairbanks Scales® - 20260

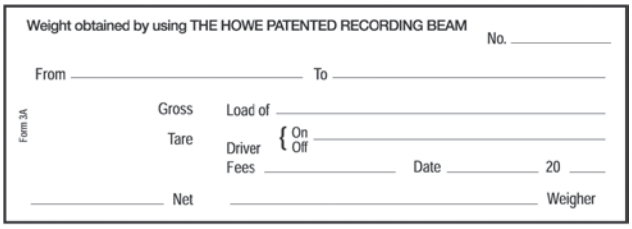
- Carbonless triplicate with 2 in (50.8 mm) tear-off flap
- Size (W × L): 4.75 × 1.875 in (120.7 × 47.6 mm)
- Order quantity: 500 per package



Standard Features

Howe Scales - 20261

- Carbon triplicate with 2 in (50.8 mm) tear-off flap
- Size (W × L): 5.5 × 1.75 in (139.7 × 44.5 mm)
- Order quantity: 500 per package



Part Number/Price

Part #	Description	Price
20260	Fairbanks Scales, 500/pack	$78.00
20261	Howe Scales, 500/pack	$78.00

Create Your Own Custom Ticket

Send us a copy of the existing custom format or drawing of a completely new one. Please specify number of carbon copies, dimensions, colors and text. Minimum order quantity may apply.

Printer Dust Covers



Protect your electronic scales, weight indicators and printers with a scale veil or printer dust cover.

Standard Features

- Tough, flexible transparent vinyl, constructed with heavy-duty stitching
- Loose fit allows for operation of switches or controls through the dust cover
- Available for most types of scale equipment

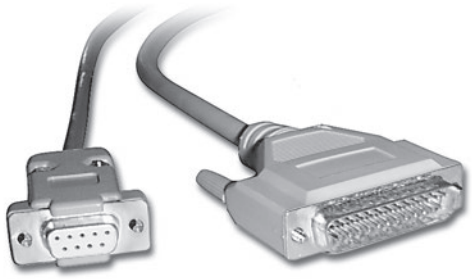
Part Number/Price

Part #	Model	Price
EPSON®		
29582	TM290/295	$58.00
35666	TM-U200 TM-U220	$63.00
111840	TM-U590	$69.00
Oki-Data®		
21208	Oki-Data 184 Turbo Printer	$65.00
21226	Oki-Data 320/390	$65.00

Custom covers and specials available; consult factory.

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Printer Cables



72440



156806 (1 m)
156807 (3 m)
156808 (5 m)

Part Number/Price

Part #	Description	Price
Interface Cables for TicketPress, SP-2200, TM-U295, TM-U590 and Star® Printers		
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	$70.00
15548	25-pin D-sub male to 25-pin D-sub male 20 mA serial interface cable (SP2200 only)	$70.00
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	$70.00
Consult	Custom 20 mA/RS-232 serial interface cable	$95.00
Interface Cables for I-Class		
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	$70.00
Consult	Custom RS-232 interface cable	$95.00
Interface Cables for Desktops, GoDEX Models, Zebra, E-4203 and M-4206		
41276	DB9 male RS-232 cable to blunt end	$77.00
Straight Cable		
70056	DB9 male to DB9 female	$40.00
50749	DB9 female to DB9 female	$60.00
41279	DB25 male to DB9 male	$70.00
72440	DB25 male to DB9 female	$67.00
Null Modem Cable		
66535	DB9F to DB9 female, Null modem	$48.00
64794	DB9 male to DB9 female	$69.00
USB Cable		
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
156806	USB-A (male) to USB-A (male) cable, 1 m	$35.00
156807	USB-A (male) to USB-A (male) cable, 3 m	$50.00
156808	USB-A (male) to USB-A (male) cable, 5 m	$60.00
156809	USB-A (male) to USB-B (male) cable, 1 m	$55.00
156815	USB-A (male) to USB-B (male) cable, 3 m	$55.00
156811	USB-A (male) to USB-B (male) cable, 5 m	$70.00
Ethernet Cable/RJ45		
72697	RJ45 to RJ45, 7 ft	$40.00
78860	RJ45 to RJ45, cross over 7 ft	$40.00
75594	RJ45 to nine-pin female	$70.00
156817	RJ45, 1 m	$35.00
156818	RJ45, 3 m	$42.00
156821	RJ45, 5 m	$50.00
Misc. Cables and Adapters		
22436	Blunt end, nine-pin D-sub female	$70.00
130213	Blunt end DB25 male	$58.00
165698	Female to male gender changer	$11.25
119064	Slimline, Null modem gender changer, DB9 female/female	$12.50
130789	Null modem DB9 M/F	$14.50

Blunt-end cables interface to: UMC444, UMC555, UMC600, IQ700, IQ plus® 310A, IQ plus® 355, IQ plus® 390-DC, IQ plus® 510, IQ plus® 590-DC, IQ plus® 710, IQ plus® 800, and IQ plus® 810, 520 and 920i®

Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type. Standard cable length is 5 ft.



156817 (1 m)
156818 (3 m)
156821 (5 m)

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Static Brushes



Part #	Staticmaster Part #	Description	Price
76669	1C200	Static brush 1 in	$194.00
76670	1C200R	Replacement cartridge	$125.00



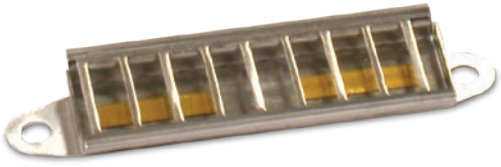
Part #	Staticmaster Part #	Description	Price
76671	3C500	Static brush 3 in	$294.00
76672	3C500R	Replacement cartridge	$198.00

Ionizing Strips



Part #	Staticmaster Part #	Description	Price
76677	1U400	Ionizing unit 1 × 1in 500 microcurries	$217.00
76678	1U200	Ionizing unit 1 × 1 in 250 microcurries	$125.00
76676	2U500	Ionizing unit 1 × 3 in	$228.00

Ionizing Strip Accessories



Part #	Staticmaster Part #	Description	Price
76679	BF1	Ionizer positioner	$131.00
76680	BF2	Ionizer positioner only - C bracket	$147.00

Desiccants



Standard Features

- Packets
- Bagged desiccants to protect your enclosed electronic components from moisture and humidity
- Useful in junction boxes, indicators and all scale electronics

Part Number/Price

Part #	Description	Price
16038	Mini Pax® 7 g	$1.30
16039	NatraSorb® 20 g	$2.30
92240	Silica get 1 unit pkg 3 g	$1.20

Industrial Corrosion Inhibitor



Standard Features

- Special chemical combination provides superior protection
- Protects 5 cubic ft/1.4 cubic m of enclosure volume for approximately one year
- Dimensions: (W × H) 2.5 × 1.5 in (64 × 38 mm)

Part Number/Price

Part #	Description	Price
16037	Corrosion inhibitor	$45.00

Crimper and Lead Seals





Part Number/Price

Part #	Description	Price
231916	Crimper die	$67.00
21111	Crimper and two die blanks	$155.00
15318	Crimper die blank (replacements)	$67.00
15317	100 seals/pkg	$60.00

Standard Features

Crimper

- 5.0 in (127 mm) seal press with two 0.5 in (13 mm) engraving dies
- Chrome finish
- Maximum number of characters that can be engraved on die is nine
- Compound leverage
- Quick delivery on custom dies

Lead Seals

- Heavy-duty seal with galvanized steel wire
- Length 16.0 in (406 mm)

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Static Control Wrist Strap



The single most important personal accessory for protecting ESD sensitive components and circuits, this wrist strap protects against charges from the body. The wrist strap consists of a comfortable elastic cuff or band and a detachable conductive cord for grounding the wrist band.

Part Number/Price

Part #	Description	Price
34263	Static control wrist strap	$62.00

Static Shielding Bags



This static shield bag offers total ESD protection, whether you're transporting ESD-susceptible products across the room or across the country. The outer layer of the bag consists of an abrasion-resistant polyester, while the antistatic polyethylene inner layer retards triboelectric static charging from inside the bag.

Part Number/Price

Part #	Description	Price
16150	Static shielding bags, 8 × 10 in	$1.20 each
16151	Static shielding bags, 12 × 18 in	$3.50 each

Static-safe Service Kit



Standard Features

- Eliminates static for safe board replacement
- Connects a field service technician and the static-safe work surface to the same ground point
- Harmlessly drains static charges from the body and from any conductive objects placed on the mat
- Folds into a compact unit for transport and storage

Part Number/Price

Part #	Description	Price
32818	Static-safe service kit	$215.00

Rice Lake's Scale Technician Kits

Take Rice Lake's commitment to customer service into the field. Rice Lake's Scale Technician Kit has everything you need in one convenient backpack to troubleshoot and repair wherever you are.

PN 166205
Technician Tool Kit $1,050.00

- Rice Lake backpack
- Simulator with vernier
- Digital volt meter
- Communication Kit



PN 166204
Communication Kit $175.00

- Cinch sack
- Document Kit
- Six-in-one screwdriver
- Small RLWS screwdriver
- Test LEDs
- USB to serial converter
- DB9M to DB9F straight cable
- DB9F to blunt end cable
- DB25M to blunt end cable
- Female to female DB9 null modem adapter
- Female to male DB9 gender changers
- Null modem adapter
- TCP/IP patch cable
- TCP/IP crossover cable



PN 166203
Document Kit $10.50

- Pinouts for a DB9 and DB25 cable shows both male and female connectors
- Pinouts and color codes for a patch and crossover Ethernet cable
- Recommended maximum cabling distances of RS-232, 20mA, 485 and Ethernet TCP/IP
- Standard ASCII chart in both decimal and hexadecimal
- Links to website to download latest version of Revolution® and iRev® (on CD)
- Link to freeware terminal program download (PUTTY, Hercules, RealTerm, etc.)
- Load cell color wire chart
- Weigh Modules and Vessel Weighing Handbook PN 43918
- Load Cell and Weigh Module Handbook PN 22054



PN 118432
Small Screwdriver $4.00



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Bariatric Wheelchair Scale

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Digital Stretcher Scale

Product names, logos, brands and other trademarks featured or referred to within this publication are the property of their respective trademark holders.

RL-330HHD

Dial Home Health Scale



Standard Features

- Durable steel base and platform
- Nonslip mat
- Large dial display
- Colorful markers to track weight values

Specifications

Capacity:
330 × 1 lb (150 × 0.5 kg)

Warranty:
One-year limited

Part Number/Price

Part #	Model #	Capacity	Price
113500	RL-330HHD	330 × 1 lb (150 × 0.5 kg) (lb and kg)	$72.00

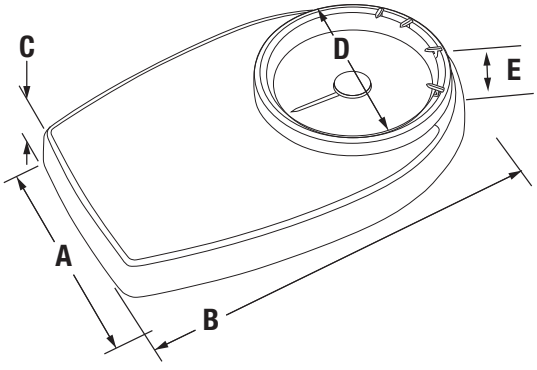
Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
113500	RL-330HHD	19 × 12 × 5 in	9	9	9

Dimensions

	Inches	Centimeters
A	11.20	28.5
B	16.90	43.0
C	2.50	6.4
D	7.90	20.1
E	0.39	8.3

E: (height includes plastic cover)



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DHH-10

Digital Home Health Scale



Standard Features

- Large LCD display
- Display lb or kg
- 8 mm tempered safety glass weighing surface
- Low battery indication

Specifications

Capacity:
440 × 0.2 lb (200 × 0.1 kg)

Dimensions:
(L × W × H)
11.8 × 15.4 × 1.0 in

Battery Type:
Two AAA alkaline batteries (included)

Display:
Digit size: 1.75 in

Warranty:
One-year limited

Approvals:
CE Approved

Approvals

CE

Part Number/Price

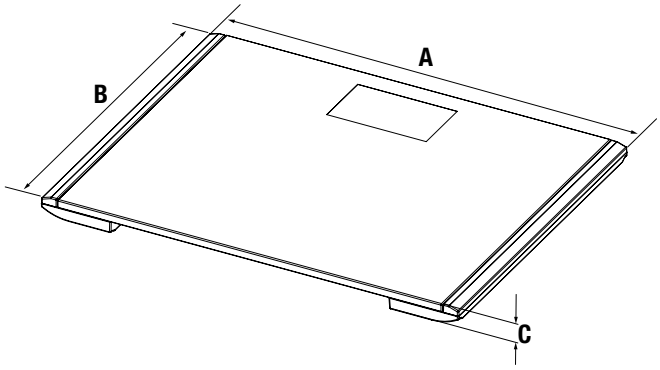
Part #	Model #	Capacity	Price
201124	DHH-10	440 × 0.2 lb (200 × 0.1 kg)	$72.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
Single Carton					
201124	DHH-10	17 × 13 × 2 in	6.5	3.0	6.5

Dimensions

	Inches	Centimeters
A	15.40	39.0
B	11.80	30.0
C	1.00	2.5



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RL-MPS

Mechanical Physician Scale



LB & KG

Standard Features

- Sturdy, enameled steel body
- Painted beam
- Rugged scale understructure
- Two wheels for easy transport
- Simple operation with two sliding weights
- Removable, slip-resistant scale base cover
- Aluminum height rod

Specifications

Capacity:
440 lb × 4 oz (200 kg × 100 g)

Platform Dimensions:
(L × W × H)
14.75 × 10.75 × 4.13 in

Height Rod:
Measures 24 to 84 in
(60 to 212 cm)

Height Division:
0.125 in (0.1 cm)

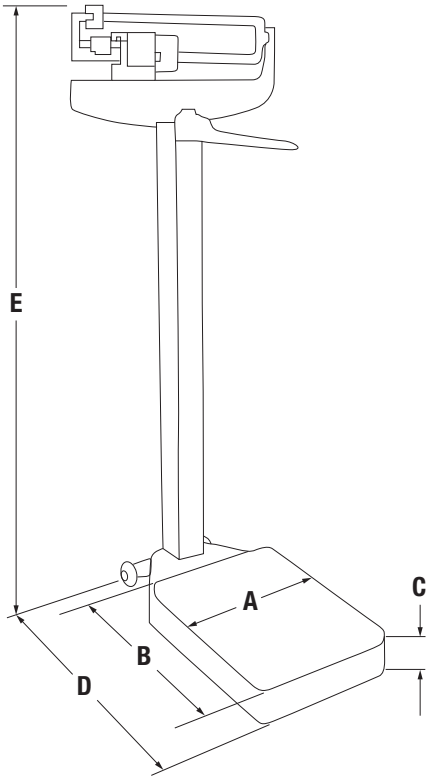
Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
102613	RL-MPS	440 lb × 4 oz (200 kg × 100 g)	$380.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
102613	RL-MPS	60 × 21 × 7 in	42	64	64



Dimensions

	Inches	Centimeters
A	10.75	27.3
B	14.75	37.5
C	4.13	10.5
D	22.30	56.6
E	58.50	148.6

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RL-MPS-10

Mechanical Physician Scale



LB Only

Standard Features

- Sturdy, enameled steel body
- Painted beam
- Rugged scale understructure
- Durable wheels for easy transport
- Simple operation with two sliding weights
- Removable, slip-resistant scale base cover
- Aluminum height rod

Specifications

Capacity:
450 lb × 4 oz

Platform Dimensions:
(L × W × H)
14.75 × 10.75 × 4.13 in

Height Rod:
Measures 24 to 84 in

Height Division:
0.125 in

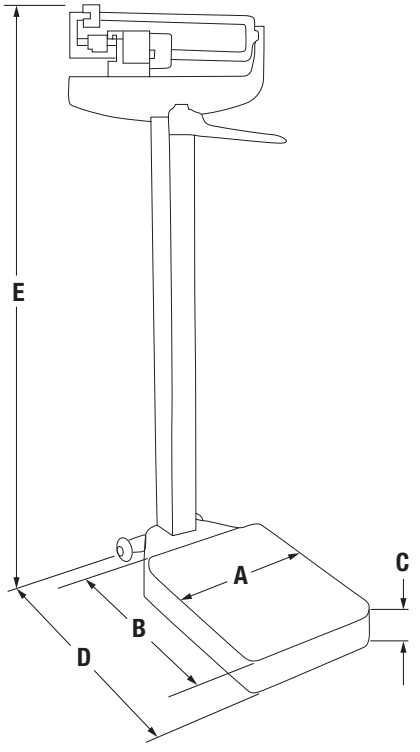
Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
124223	RL-MPS-10	450 lb × 4 oz	$345.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
124223	RL-MPS-10	60 × 21 × 7 in	42	64	64



Dimensions

	Inches	Centimeters
A	10.75	27.3
B	14.75	37.5
C	4.13	10.5
D	22.30	56.6
E	58.50	148.6

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RL-MPS-30

Mechanical Physician Scale



KG Only with handpost

Standard Features

- Sturdy, enameled steel body
- Painted beam
- Rugged scale understructure
- Hand post
- Two wheels for easy transport
- Simple operation with two sliding weights
- Removable, slip-resistant scale base cover
- Aluminum height rod

Specifications

Capacity:
180 kg x 100 g

Platform Dimensions:
(L × W × H)
37.5 × 27.3 × 10.5 cm

Height Rod:
Measures 60 to 212 cm

Height Division:
0.1 cm

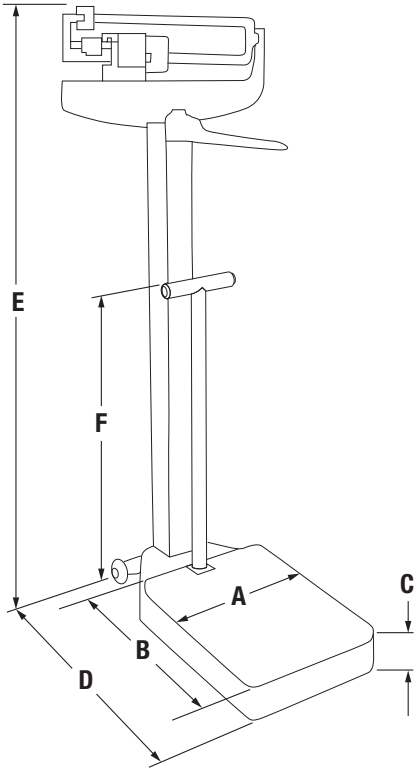
Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
132703	RL-MPS-30	180 kg × 100 g	$385.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
132703	RL-MPS-30	60 × 21 × 7 in	40	64	64



Dimensions

	Inches	Centimeters
A	10.75	27.3
B	14.75	37.5
C	4.13	10.5
D	22.30	56.6
E	58.50	148.6
F	31.50	80.0

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RL-MPS-40

Mechanical Physician Scale



LB & KG

Standard Features

- Dual-read capacity and height rod
- Sturdy enameled steel body
- Painted beam designed to hold counterpoise weights
- Rugged scale understructure
- Removable, slip-resistant plastic scale base cover
- Retractable aluminum height rod
- Simple operation with two sliding weights and two counterpoise weights (included)
- Two wheels for easy transport
- Aluminum height rod

Specifications

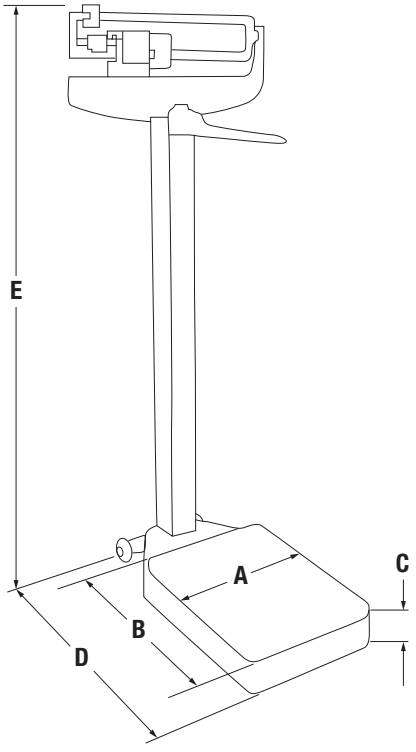
Capacity:
490 lb × 4 oz (220 kg × 100 g)

Platform Dimensions:
(L × W × H)
14.75 × 10.75 × 4.13 in

Height Rod:
Measures 24 to 84 in
(60 to 212 cm)

Height Division:
0.125 in (0.1 cm)

Warranty:
Two-year limited



Part Number/Price

Part #	Model #	Capacity	Price
185289	RL-MPS-40	490 lb × 4 oz (220 kg × 100 g)	$375.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
185289	RL-MPS-40	60 × 21 × 7 in	44	64	64

Dimensions

	Inches	Centimeters
A	10.75	27.3
B	14.75	37.5
C	4.13	10.5
D	22.30	56.6
E	58.50	148.6

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RL-MPS-50

Mechanical Physician Scale



LB & KG

Standard Features

- Two wheels for easy transport
- Aluminum height rod included
- Poise travels free on weigh beam with simple finger tap
- Easy-to-read weigh beam
- Color-coded black inset shows lb markings and white inset shows kg markings
- The beam can be rotated to the desired unit of measure
- Aluminum height rod

Specifications

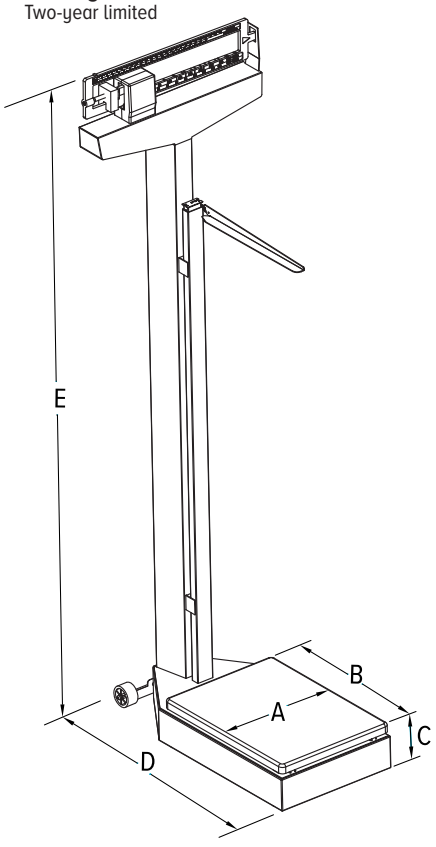
Capacity:
450 lb × 4 oz (200 kg × 100 g)

Platform Dimensions:
(L × W × H)
14.75 × 10.75 × 4.13 in

Height Rod:
Measures 29.50 to 78.75 in
(75 to 200 cm)

Height Division:
0.25 in (5 mm)

Warranty:
Two-year limited



Part Number/Price

Part #	Model #	Capacity	Price
195264	RL-MPS-50	450 lb × 4 oz (200 kg × 100 g)	$380.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
195264	RL-MPS-50	60 × 21 × 5 in	39	46	46





Dimensions

	Inches	Centimeters
A	10.75	27.3
B	14.75	37.5
C	4.13	10.5
D	22.30	56.6
E	58.50	148.6

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EYE-LEVEL

Standard Features

- Large push-button LCD display
- Antimicrobial keypad
- Large, stable scale base
- Integrated height rod
- Nonslip rubber mat, removable for cleaning
- Two wheels for easy transport
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Hold function
- Zero function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
550 × 0.2 lb (250 × 0.1 kg)

Platform Dimensions:
(L × W × H)
14.70 × 14.70 × 3.00 in

Height Rod:
Measures from 27.50 to 82.00 in (70 to 208 cm)

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

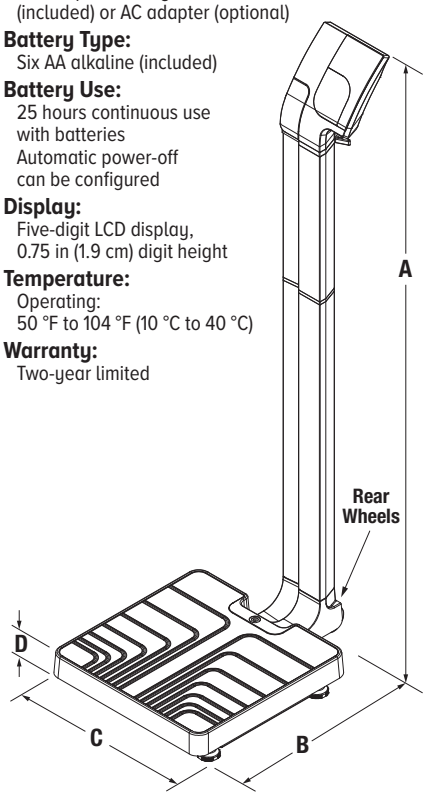
Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited



Part Number/Price

Part #	Model #	Capacity	Price
119113	150-10-5	550 × 0.2 lb (250 × 0.1 kg) with USB	$695.00
194726	150-10-5BLE	550 × 0.2 lb (250 × 0.1 kg) WPAN	$930.00

Shipping Weight

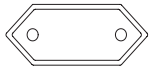
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
119113	150-10-5	30 × 18 × 9 in	26	35	35
194726	150-10-5BLE	30 × 18 × 9 in	26	35	35

Options/Accessories

Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



† NEMA 1-15 Plug



†† CEE 7/16 Plug

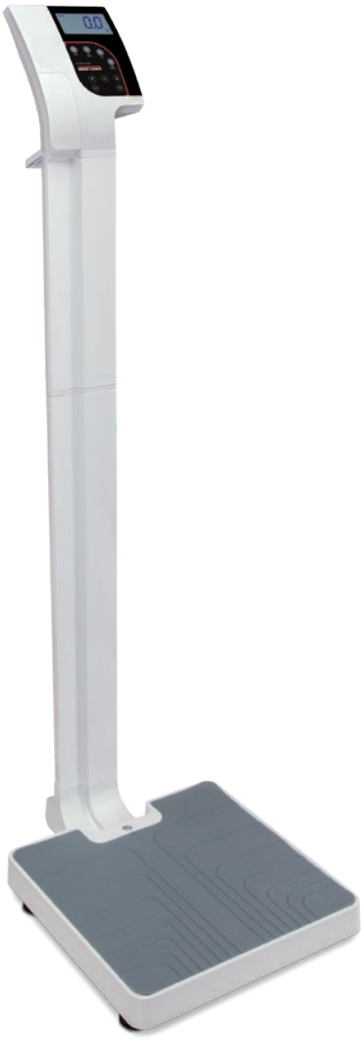
Dimensions

	Inches	Centimeters
A	54.00	137.2
B	22.40	56.9
C	14.70	37.5
D	3.00	7.6

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150-10-6

Digital Physician Scale



WAIST-LEVEL

Standard Features

- Large push-button LCD display
- Antimicrobial keypad
- Large, stable scale base
- Two wheels for easy transport
- Nonslip rubber mat, removable for cleaning
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Hold function
- Zero function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
550 × 0.2 lb (250 × 0.1 kg)

Platform Dimensions:
(L × W × H)
14.70 × 14.70 × 3.00 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

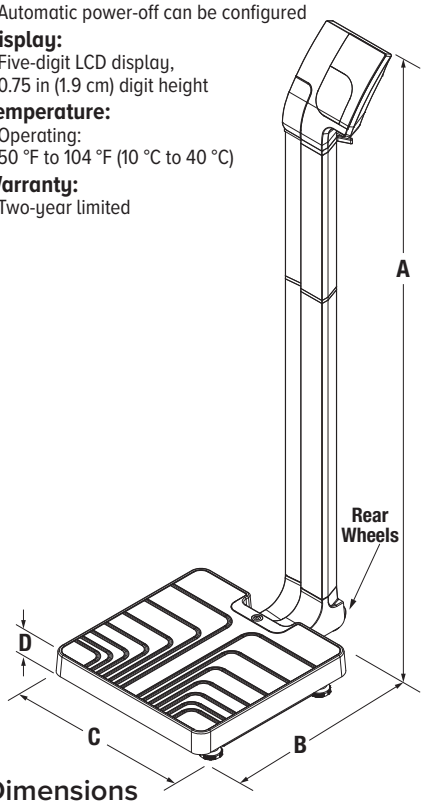
Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display,
0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited



Part Number/Price

Part #	Model #	Capacity	Price
161786	150-10-6	550 × 0.2 lb (250 × 0.1 kg) with USB	$675.00
194732	150-10-6BLE	550 × 0.2 lb (250 × 0.1 kg) WPAN	$910.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
161786	150-10-6	30 × 19 × 9 in	25	37	37
194732	150-10-6BLE	30 × 19 × 9 in	25	37	37

Options/Accessories

Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	48.40	123.0
B	22.40	56.9
C	14.70	37.5
D	3.00	7.6

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FLOOR-LEVEL

Standard Features

- Large push-button LCD display
- Antimicrobial keypad
- Large, stable scale base
- Nonslip rubber mat, removable for cleaning
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EMR capable
- Serial and USB data communication port
- Wireless personal area network (WPAN) option available
- Hold function
- Zero function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
550 × 0.2 lb (250 × 0.1 kg)

Platform Dimensions:
(L × W × H)
14.70 × 14.70 × 3.00 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Cable Length:
6 ft (1.8 m) cable between scale base and indicator

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
121304	150-10-7	550 × 0.2 lb (250 × 0.1 kg) with USB	$555.00
194728	150-10-7BLE	550 × 0.2 lb (250 × 0.1 kg) WPAN	$790.00

Shipping Weight

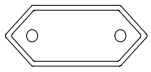
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
121304	150-10-7	25 × 18 × 6 in	17	20	20
194728	150-10-7BLE	25 × 18 × 6 in	17	20	20

Options/Accessories

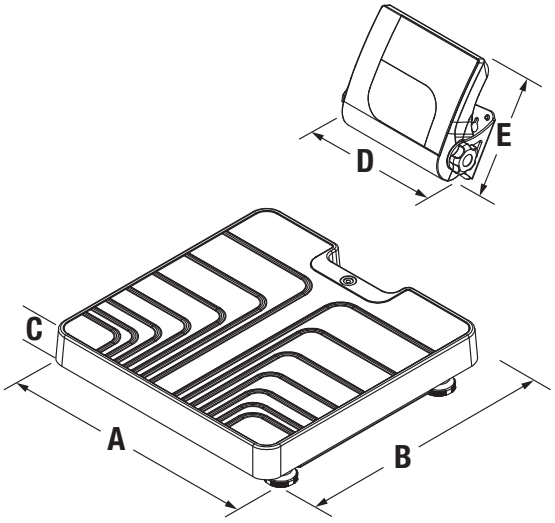
Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
107445	Carrying case	$92.00



† NEMA 1-15 Plug



†† CEE 7/16 Plug



Dimensions

	Inches	Centimeters
A	14.70	37.5
B	14.70	37.5
C	3.00	7.6
D	7.80	19.8
E	6.70	17.0

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150-10-8

Digital Physician Scale



FLOOR LEVEL WITH ATTACHED INDICATOR

Standard Features

- Large push-button LCD display
- Antimicrobial keypad
- Large, stable scale base
- Nonslip rubber mat, removable for cleaning
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EMR capable
- USB and Wireless personal area network (WPAN) option available
- Hold function
- Zero function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
550 × 0.2 lb (250 × 0.1 kg)

Platform Dimensions:
(L × W × H)
14.70 × 14.70 × 3.00 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
224055	150-10-8	550 × 0.2 lb (250 × 0.1 kg) with USB	$575.00
224056	150-10-8BLE	550 × 0.2 lb (250 × 0.1 kg) WPAN	$810.00

Shipping Weight

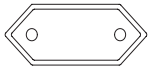
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
224055	150-10-8	12.7 × 22.4 × 14.7 in	25	37	37
224056	150-10-8BLE	12.7 × 22.4 × 14.7 in	25	37	37

Options/Accessories

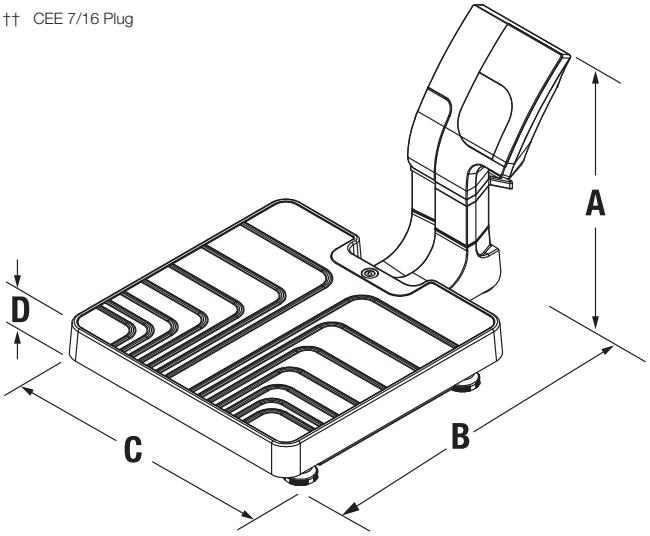
Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



† NEMA 1-15 Plug



†† CEE 7/16 Plug



Dimensions

	Inches	Centimeters
A	12.70	32.3
B	22.40	56.9
C	14.70	37.4
D	3.00	7.6

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160-10-7N

Digital Athletic Low-profile Scale



Approvals

Part Number/Price

Part #	Model #	Capacity	Price
193355	160-10-7N	550 × 0.2 lb (250 × 0.1 kg)	$800.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
193355	160-10-7N	20 × 18 × 6 in	18	16	18

Options/Accessories

Part #	Description	Price
107445	Carrying case	$92.00



† NEMA 1-15 Plug

Standard Features

- Push-button LCD display
- Antimicrobial keypad
- Large, stable scale base
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EMR capable
- Zero function
- Factory calibrated

Specifications

Capacity:
550 × 0.2 lb (250 × 0.1 kg)

Platform Dimensions:
(L × W × H)
14.40 × 14.40 × 1.65 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or 120V/230V AC adapter, NEMA 1-15 plug (included)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

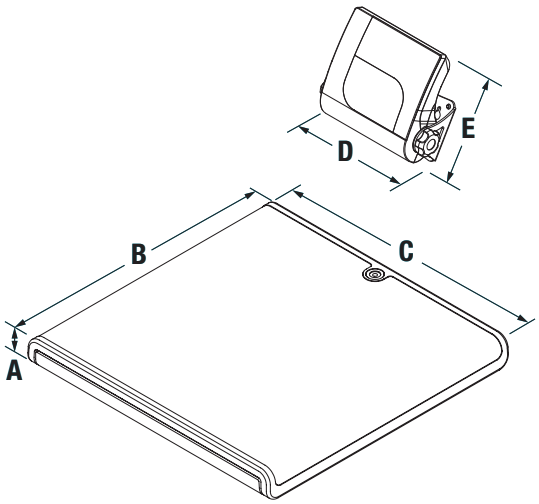
Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Cable Length:
6 ft (1.8 m) cable between scale base and indicator

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Approvals:
NTEP 18-011

Warranty:
Two-year limited



Dimensions

	Inches	Centimeters
A	1.7	4.3
B	14.4	36.6
C	14.4	36.6
D	7.8	20.0
E	6.7	17.0

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RL-WMS-10

Wall Mount Stadiometer



Standard Features

- Aluminum construction
- Compact design with folding headpiece
- Measures both inches and centimeters
- Hardware included for mounting to metal, wood or drywall walls

Specifications

Measurement Range:
23 to 82 in (60 to 210 cm)

Height Divisions:
1/16 in (1 mm)

Warranty:
One-year limited



Part Number/Price

Part #	Model #	Measuring Range × Graduation Length	Price
206553	RL-WMS-10	23 to 82 × 1/16 in (60 to 120 cm × 1 mm)	$103.00

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RL-MIS

Mechanical Baby Scale



LB & KG

Standard Features

- Painted beam
- Sturdy, enameled steel body
- Easy-to-clean ABS plastic tray
- Dual-read capacity; lb and kg
- Built-in measuring tape

Specifications

Capacity:
135 lb × 1 oz (62 kg × 20 g)

Measuring Tape:
Measures 0 to 23 in
(0 to 58 cm)

Warranty:
Two-year limited

Part Number/Price

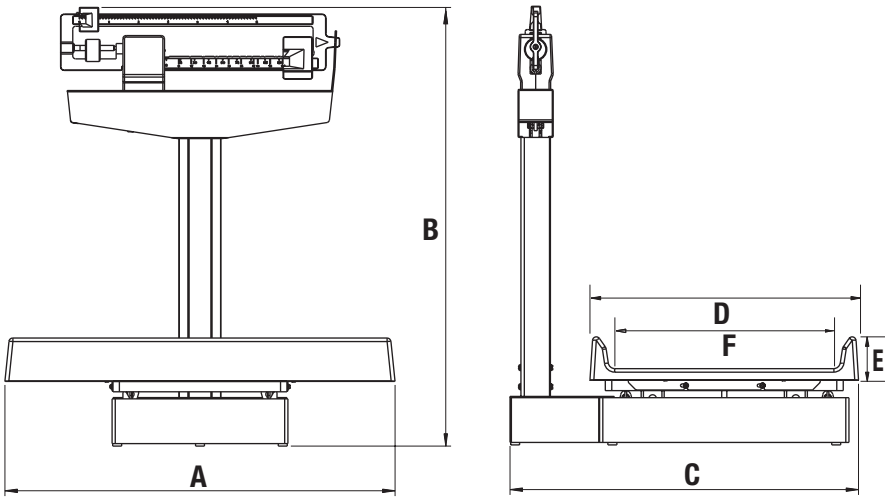
Part #	Model #	Capacity	Price
131470	RL-MIS	135 lb × 1 oz (62 kg × 20 g)	$370.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
131470	RL-MIS	28 × 20 × 14 in	30	57	57

Dimensions

	Inches	Centimeters		Inches	Centimeters
A	24.00	61.0	D	16.50	41.9
B	27.00	68.6	E	2.70	6.8
C	21.50	54.5	F	13.39	34.0



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RL-MIS-20

Mechanical Baby Scale



KG Only

Standard Features

- Painted beam
- Sturdy, enameled steel body
- Easy-to-clean ABS plastic tray
- Unit of measure: kg
- Built-in measuring tape

Specifications

Capacity:
70 kg × 20 g

Measuring Tape:
0 to 58 cm

Warranty:
Two-year limited

Part Number/Price

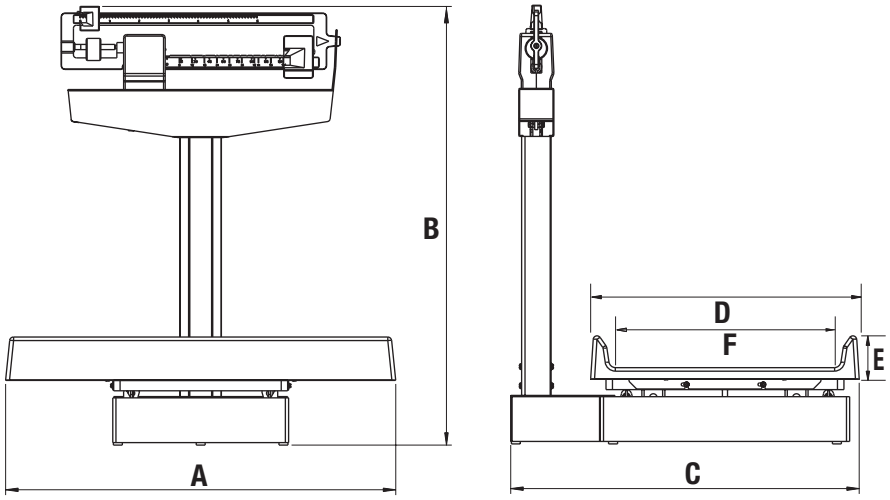
Part #	Model #	Capacity	Price
131471	RL-MIS-20	70 kg × 20 g	$370.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
131471	RL-MIS-20	28 × 20 × 14 in	30	57	57

Dimensions

	Centimeters		Centimeters
A	61.0	D	41.9
B	68.6	E	6.8
C	54.5	F	34.0



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RL-DBS

Digital Baby Scale



Standard Features

- Large 1-in LCD display
- Unit of measure locking
- Recall function to view last weight
- Automatic shut-off for long battery life
- Built-in measuring tape
- Optional carrying case

Specifications

Capacity:
44 lb × 0.5 oz (20 kg × 10 g)

Power:
Four AA alkaline batteries (included)
or AC adapter (included)

Battery Type:
Four AA alkaline (included)

Measuring Tape:
0 to 22.5 in (0 to 57 cm)

Approvals:
AC adapter: cULus

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
107423	RL-DBS	44 lb × 0.5 oz (20 kg × 10 g), includes 120 VAC adapter	$225.00
112571	RL-DBS	44 lb × 0.5 oz (20 kg × 10 g), includes 230 VAC adapter	$225.00

Shipping Weight

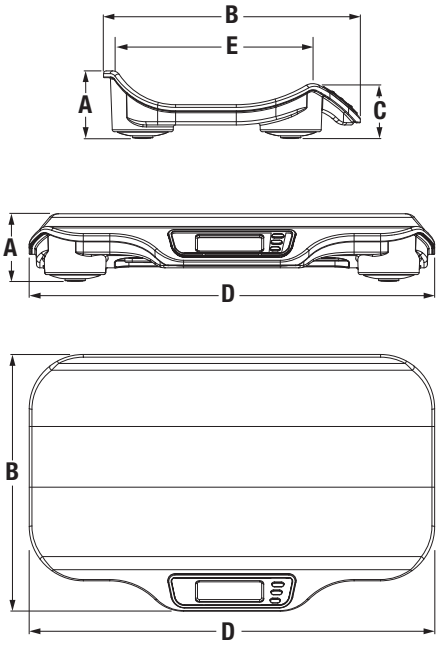
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
107423	RL-DBS 120 V	27 × 18 × 7 in	10	21	21
112571	RL-DBS 230 V	27 × 18 × 7 in	10	21	21

Options/Accessories

Part #	Description	Price
112570	Carrying case	$56.00



Optional Transport/Carrying Case



Dimensions

	Inches	Centimeters
A	3.90	9.9
B	15.00	38.1
C	3.10	7.8
D	23.60	59.9
E	11.00	27.9

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RL-DBS-2

Digital Baby Scale



Part Number/Price

Part #	Model #	Capacity	Price
155922	RL-DBS-2	0 to 22 lb × 0.2 oz, 22 to 44 lb × 0.5 oz (0 to 10 kg × 5 g, 10 to 20 kg × 10 g) includes 120 VAC adapter	$265.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
155922	RL-DBS-2 120 V	28 × 18 × 7 in	10	21	21

Options/Accessories

Part #	Description	Price
112570	Carrying Case	$56.00



Optional Transport/Carrying Case

Standard Features

- Large 1-inch LCD display
- Dual-range capacity for increased precision
- Accuracy within 0.2 oz (5 g)
- Unit of measure locking
- Recall function to view last weight
- Automatic shut-off for long battery life
- Built-in measuring tape
- Optional carrying case

Specifications

Capacity:
Range 1: 0 to 22 lb × 0.2 oz
(0 to 10 kg × 5 g)
Range 2: 22 to 44 lb × 0.5 oz
(10 to 20 kg × 10 g)

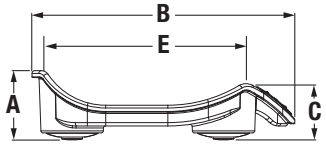
Power:
Four AA alkaline batteries (included)
or AC adapter (included)

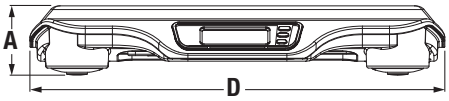
Battery Type:
Four AA alkaline (included)

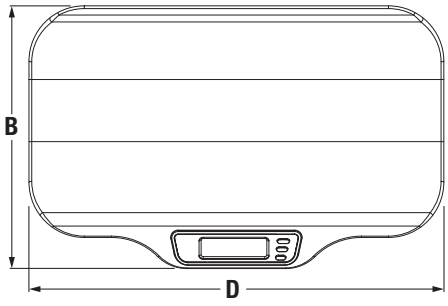
Measuring Tape:
0 to 22.5 in (0 to 57 cm)

Approvals:
AC adapter: cULus

Warranty:
Two-year limited







Dimensions

	Inches	Centimeters
A	3.90	9.9
B	15.00	38.1
C	3.10	7.8
D	23.60	59.9
E	11.00	27.9

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Standard Features

- Large LCD display
- Dual-range capacity for increased precision
- Unit of measure locking
- Automatic shut-off for long battery life
- Motiontrap™ movement compensation technology
- Built-in measuring tape

Specifications

Capacity:
Range 1: 0 to 10 lb × 0.05 oz (0 to 5 kg × 1 g)
Range 2: 10 to 33 lb × 0.1 oz (5 to 15 kg × 2 g)

Power:
12 VDC, provided by six AA lithium batteries (included) or AC adapter (optional)

Measuring Tape:
0 to 23.5 in × 0.125 in
(0 to 60 cm × 0.25 cm)

Battery Type:
Six Li-FeS2 batteries

Temperature:
Operating:
50 °F to 95 °F (10 °C to 35 °C)

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
161784	650-10-1	0 to 10 lb × 0.05 oz, 10 to 33 lb × 0.1 oz (0 to 5 kg × 1 g, 5 to 15 kg × 2 g)	$765.00

Shipping Weight

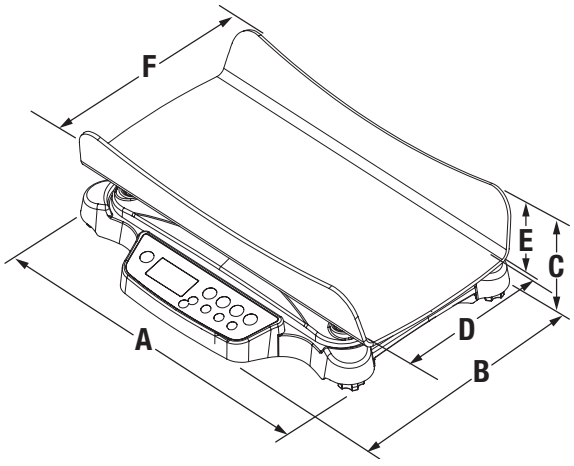
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
161784	650-10-1	18 × 28 × 11 in	25	40	40

Options/Accessories

Part #	Description	Price
165138	12VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$55.00

Dimensions

	Inches	Centimeters
A	23.94	60.8
B	16.95	43.1
C	6.29	16.0
D	10.50	26.7
E	3.11	7.9
F	13.34	33.9



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260-10-1

Bariatric Handrail Scale



Part Number/Price

Part #	Model #	Capacity	Price
170139	260-10-1	800 × 0.2 lb (360 × 0.1 kg) with USB	$1,685.00

Shipping Weight

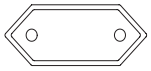
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
170139	260-10-1	40 × 40 × 10 in	58	116	116
172958	Height rod	33 × 9 × 3 in	3	7	7

Options/Accessories

Part #	Description	Price
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00
172958	Height rod 30 to 83 in (77 to 210 cm)	$75.00



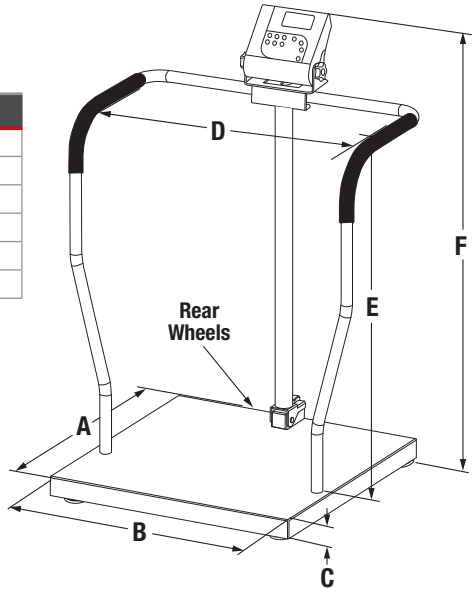
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	23.50	59.7
B	23.50	59.7
C	2.75	7.0
D	25.50	64.8
E	33.50	85.1
F	43.00	109.2



Standard Features

- Large LCD display
- Antimicrobial keypad
- Handrails for support and safety
- Two wheels for easy transport
- Nonslip platform
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EMR capable
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated
- Optional height rod can be installed on-site

Specifications

Capacity:
800 × 0.2 lb (360 × 0.1 kg)

Platform Dimensions:
(L × W × H)
23.50 x 23.50 x 2.75 in

Optional Height Rod Dimensions:
30 to 83.12 in (77 to 211 cm)

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited



Height rod can be mounted on either side

Shown with optional height rod

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250-10-2

Bariatric Handrail Scale



Standard Features

- ADA-compliant
- Large LCD display
- Antimicrobial keypad
- Handrails for support and safety
- Two wheels for easy transport
- Nonslip platform
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions:
(L × W × H)
25.00 × 20.00 × 3.00 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
133119	250-10-2	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$1,840.00
194733	250-10-2BLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$2,145.00

Shipping Weight

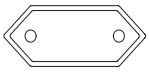
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
133119	250-10-2	46 × 30 × 9 in	66	94	94
194733	250-10-2BLE	46 × 30 × 9 in	66	94	94

Options/Accessories

Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



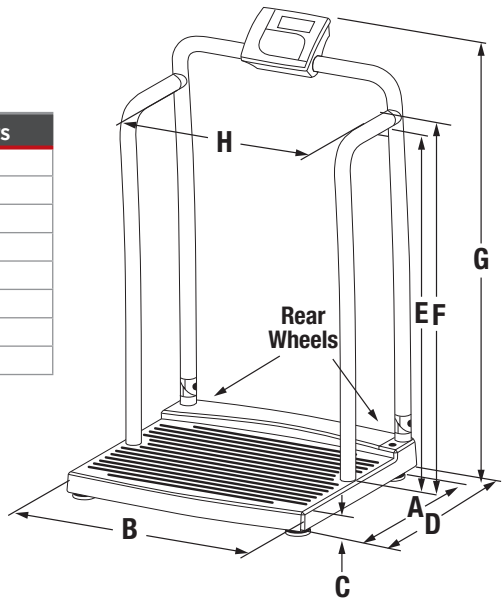
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	20.00	50.8
B	25.00	63.5
C	3.00	7.6
D	25.00	63.5
E	32.84	83.4
F	34.34	87.2
G	44.50	113.0
H	21.71	55.1



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250-10-4

Bariatric Handrail Scale



20 INCH SEAT WIDTH

Standard Features

- Large LCD display
- Antimicrobial keypad
- Handrails for support and safety
- Padded seat with backrest
- Two wheels for easy transport
- Nonslip platform
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions:
(L × W × H)
25.00 × 20.00 × 3.00 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
133120	250-10-4	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$2,810.00
194734	250-10-4BLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$3,115.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
133120	250-10-4	47 × 27 × 16 in	94	154	154
194734	250-10-4BLE	47 × 27 × 16 in	94	154	154

Options/Accessories

Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



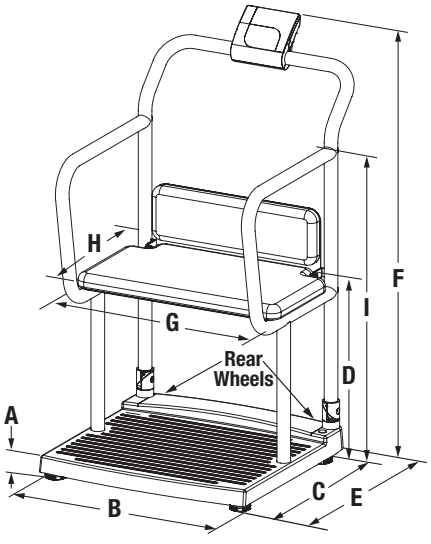
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	3.00	7.6
B	25.70	65.3
C	25.20	64.0
D	21.60	54.9
E	32.00	81.1
F	47.50	120.7
G	20.00	50.8
H	12.00	30.5
I	36.00	91.4







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RL-MCS

Mechanical Chair Scale



16 INCH SEAT WIDTH

Standard Features

- Swing-up arms for easy access and exit
- Fold-up footrest
- Sturdy enameled, steel frame
- Dual read die-cast beam
- Polypropylene seat with ABS armrests
- Heavy-duty wheels; two back wheels lock, two front wheels swivel

Specifications

Capacity:
Lb only beam 450 lb × 4 oz
Kg only beam 200 kg × 100 g

Warranty:
Two-year limited

Part Number/Price

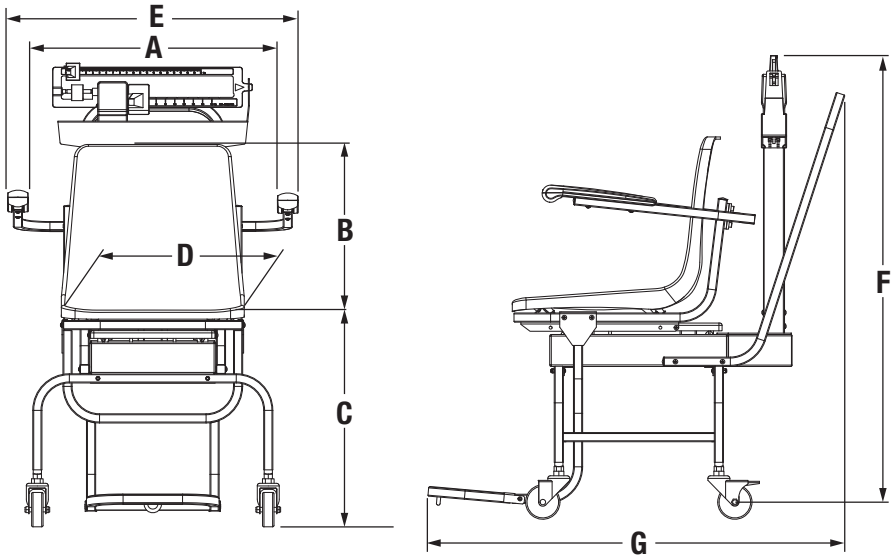
Part #	Model #	Capacity	Price
172098	RL-MCS-LB	450 lb × 4 oz	$725.00
172099	RL-MCS-KG	200 kg × 100 g	$725.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
172098	RL-MCS-LB	29 × 25 × 25 in	79	131	131
172099	RL-MCS-KG	29 × 25 × 25 in	79	131	131

Dimensions

	Inches	Centimeters
A	21.50	54.6
B	14.20	36.1
C	14.80	37.6
D	16.00	40.6
E	25.38	64.5
F	38.40	97.5
G	35.70	90.7



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560-10-1

Digital Chair Scale



20 INCH SEAT WIDTH

Standard Features

- Large LCD display
- Enameled tubular steel frame
- Four heavy-duty caster wheels
- Swing-up arms
- Side-folding footrests
- Molded seat
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- USB data communication port
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
660 × 0.2 lb (300 × 0.1 kg)

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
166644	560-10-1	660 × 0.2 lb (300 × 0.1 kg)	$1,675.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
166644	560-10-1	33 × 23 × 27 in	65	148	148

Options/Accessories

Part #	Description	Price
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



† NEMA 1-15 Plug

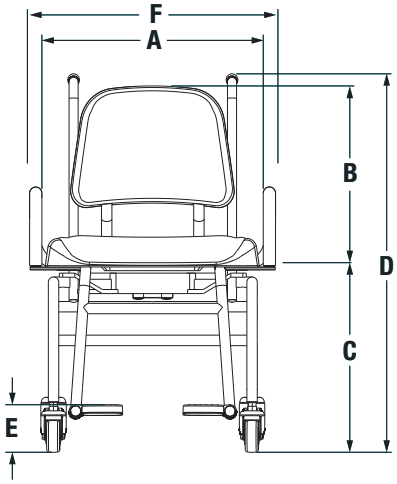


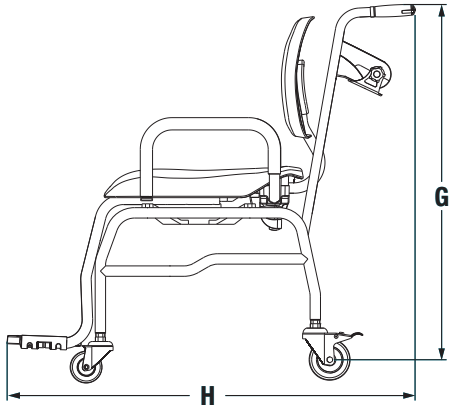
†† CEE 7/16 Plug



Dimensions

	Inches	Centimeters
A	20.10	51.1
B	17.30	44.0
C	20.10	51.1
D	36.40	92.5
E	5.90	15.0
F	21.50	54.6
G	34.60	88.0
H	42.90	109.0





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550-10-1
Digital Chair Scale



17 INCH SEAT WIDTH

Standard Features

- Large LCD display
- Antimicrobial keypad
- Enameled tubular steel frame
- Four heavy-duty locking caster wheels
- Swing-up arms
- Flip-up footrest
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
660 × 0.2 lb (300 × 0.1 kg)

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
119114	550-10-1	660 × 0.2 lb (300 × 0.1 kg) with USB	$1,610.00
194740	550-10-1BLE	660 × 0.2 lb (300 × 0.1 kg) WPAN	$1,915.00

Shipping Weight

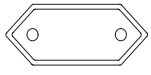
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
119114	550-10-1	29 × 27 × 29 in	54	164	164
194740	550-10-1BLE	29 × 27 × 29 in	54	164	164

Options/Accessories

Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



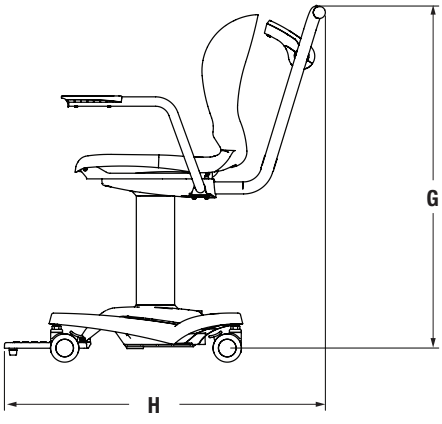
† NEMA 1-15 Plug

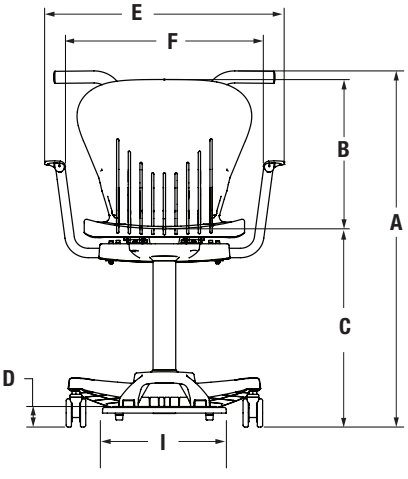


†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	37.26	94.6
B	15.61	39.6
C	20.74	52.7
D	2.15	5.5
E	25.06	63.7
F	20.70	52.6
G	35.78	90.9
H	33.58	85.3
I	12.95	32.9





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350-ADA-1

Dual-ramp ADA Compliant Wheelchair Scale



Standard Features

- ADA -compliant
- Large LCD display
- Antimicrobial keypad
- Dual ramp
- Metal, nonslip platform
- Supports bariatric patient weighing
- 2-in edge protection
- 1:8 gentle slope
- Two wheels for easy transport
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated
- Easy to store, folded depth is 11.75 in (29.8 cm)

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions:
(L × W × H)
40.60 × 32.00 × 4.50 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours of continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
231628	350-ADA-1	1,000 × 0.2 lb (450 × 0.1 kg) with USB	Consult

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
231628	350-ADA-1	43 × 48 × 25 in	145	NA	287

Options/Accessories

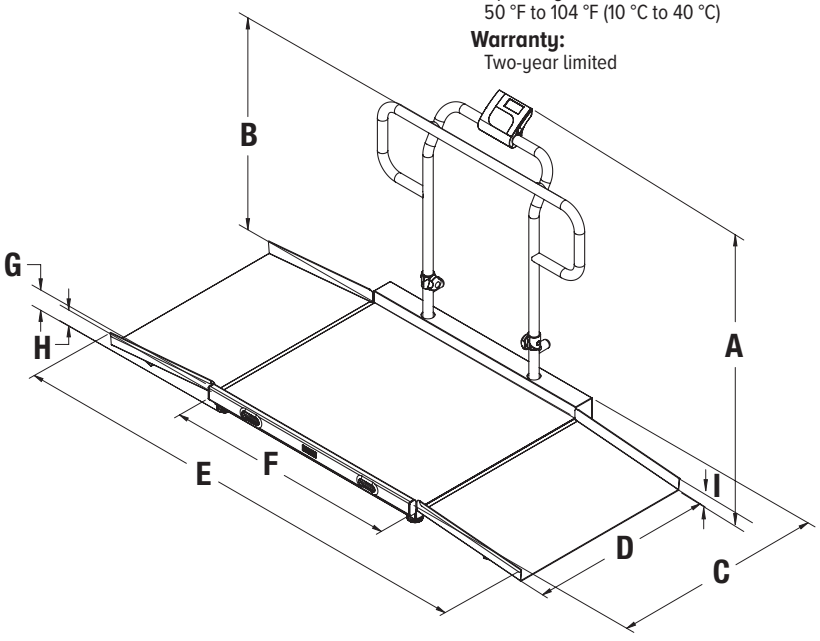
Part #	Description	Price
133077 †	9 VDC adapter, 120 V/230 V auto switching	Consult



† NEMA 1-15 Plug

Dimensions

	Inches	Centimeters
A	44.40	113.0
B	35.90	91.0
C	36.40	92.5
D	32.00	81.3
E	83.50	212.0
F	40.60	103.0
G	4.50	11.5
H	2.50	6.4
I	2.00	5.1



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350-10-3M

Dual-ramp Wheelchair Scale



Standard Features

- Large LCD display
- Antimicrobial keypad
- Two wheels for easy transport
- Dual ramp
- Metal, nonslip platform
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated
- Easy to store, folded depth is 11.75 in (29.8 cm)

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions:
(L × W × H)
29.50 × 31.50 × 3.15 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours of continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
193956	350-10-3M	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$3,115.00
203910	350-10-3MBLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$3,420.00

Shipping Weight

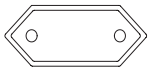
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
193956	350-10-3M	51 × 42 × 14 in	102	216	216
203910	350-10-3MBLE	51 × 42 × 14 in	102	216	216

Options/Accessories

Part #	Description	Price
115655 †	9 VDC adapter, 120 V/230 V auto switching medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



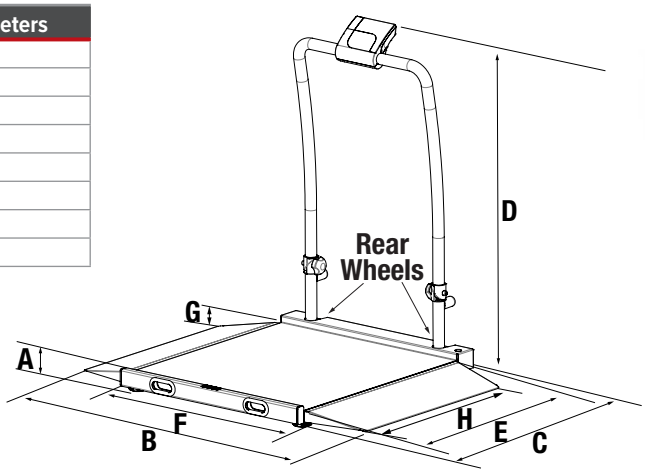
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	3.15	8.0
B	47.70	121.2
C	37.80	96.0
D	45.30	115.1
E	31.50	80.0
F	29.50	74.9
G	2.40	6.1
H	27.20	69.1





350-10-3M in folded position

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350-10-2

Single-ramp Wheelchair Scale



WITH HANDRAIL

Standard Features

- Large LCD display
- Antimicrobial keypad
- Two wheels for easy transport
- Single ramp
- Nonslip platform
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- BMI (body mass index) function
- Factory calibrated
- Easy to store, folded depth is 11.75 in (29.8 cm)

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions Without Ramp:
(L × W × H)
29.50 × 32.00 × 2.40 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours of continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
141445	350-10-2	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$2,125.00
194739	350-10-2BLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$2,475.00

Shipping Weight

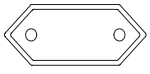
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
141445	350-10-2	42 × 41 × 14 in	90	174	174
194739	350-10-2BLE	42 × 41 × 14 in	90	174	174

Options/Accessories

Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



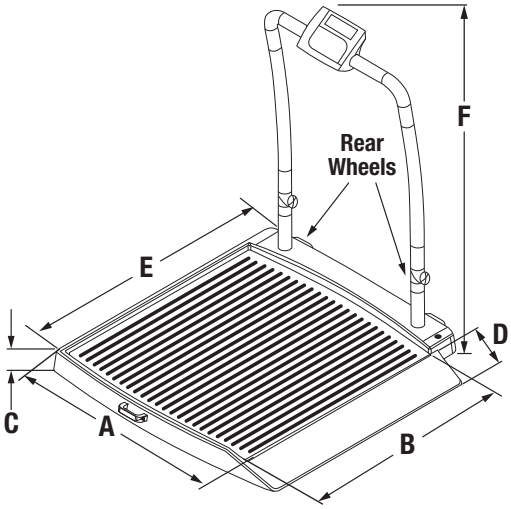
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	29.50	74.9
B	32.00	81.3
C	2.40	6.1
D	9.30	23.6
E	37.50	95.3
F	45.00	114.3





Wheelchair scale in folded position

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350-10-7

Single-ramp Wheelchair Platform Scale



Standard Features

- Large LCD display
- Antimicrobial keypad
- Two wheels for easy transport
- Single ramp
- Nonslip platform
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions Without Ramp:
(L × W × H)
29.50 × 32.00 × 2.40 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours of continuous use with batteries
Automatic power-off can be configured

Cable Length:
7 ft (2.1 m) cable between scale base and indicator

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
141446	350-10-7	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$2,280.00
194738	350-10-7BLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$2,780.00

Shipping Weight

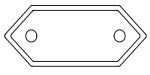
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
141446	350-10-7	45 × 44 × 7 in	78	100	100
194738	350-10-7BLE	45 × 44 × 7 in	78	100	100

Options/Accessories

Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



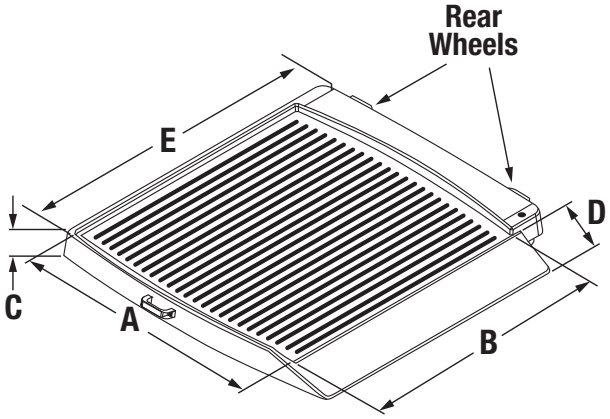
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	29.50	74.9
B	32.00	81.3
C	2.40	6.1
D	9.30	23.6
E	37.50	95.3



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350-10-3

Dual-ramp Wheelchair Scale



WITH HANDRAIL

Standard Features

- Large LCD display
- Antimicrobial keypad
- Two wheels for easy transport
- Dual ramp
- Nonslip platform
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated
- Easy to store, folded depth is 11.75 in (29.8 cm)

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions Without Ramps:
(L × W × H)
29.50 × 32.00 × 2.40 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours of continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
141447	350-10-3	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$2,820.00
194736	350-10-3BLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$3,125.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
141447	350-10-3	51 × 42 × 14 in	102	216	216
194736	350-10-3BLE	51 × 42 × 14 in	102	216	216

Options/Accessories

Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



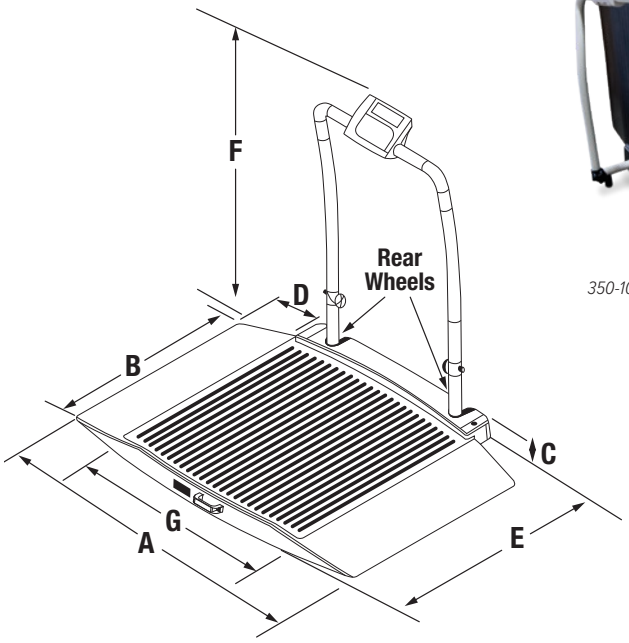
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	48.50	123.2
B	32.00	81.3
C	2.40	6.1
D	9.30	23.6
E	38.00	96.5
F	45.00	114.3
G	29.50	74.90





350-10-3 in folded position

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350-10-4

Dual-ramp Wheelchair Scale



WITH SEAT AND HANDRAIL

Standard Features

- Large LCD display
- Antimicrobial keypad
- Two wheels for portability
- Dual ramp
- Nonslip platform
- Fold-away padded seat with backrest
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated
- Easy to store, folded depth is 11.75 in (29.8 cm)

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions Without Ramps:
(L × W × H)
29.50 × 32.00 × 2.40 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours of continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (14 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
141448	350-10-4	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$4,050.00
194737	350-10-4BLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$4,355.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
141448	350-10-4	51 × 43 × 21 in	132	332	332
194737	350-10-4BLE	51 × 43 × 21 in	132	332	332

Options/Accessories

Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



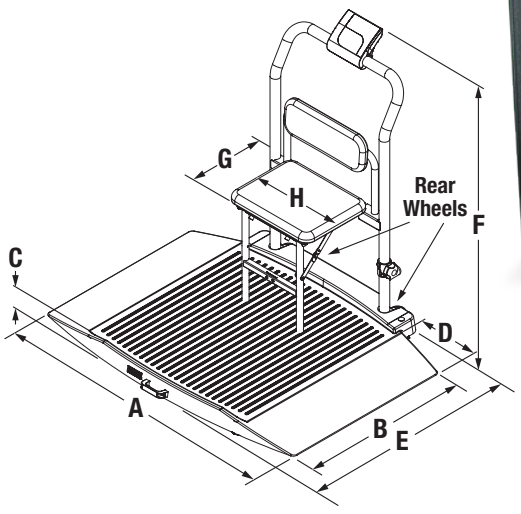
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	48.50	123.2
B	32.00	81.3
C	2.40	6.1
D	9.30	23.6
E	38.00	96.5
F	45.00	114.3
G	11.42	29.0
H	15.75	40.0





350-10-4 in folded position

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350-10-8

Dual-ramp Wheelchair Platform Scale



Standard Features

- Large LCD display
- Antimicrobial keypad
- Two wheels for easy transport
- Dual ramp
- Nonslip platform
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Part Number/Price

Part #	Model #	Capacity	Price
141449	350-10-8	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$2,770.00
194735	350-10-8BLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$3,070.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
141449	350-10-8	53 × 45 × 7 in	86	121	121
194735	350-10-8BLE	53 × 45 × 7 in	86	121	121

Options/Accessories

Part #	Description	Price
115655 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, medical grade power supply	$43.00
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



† NEMA 1-15 Plug



†† CEE 7/16 Plug

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions Without Ramps:
(L × W × H)
29.50 × 32.00 × 2.40 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours of continuous use with batteries
Automatic power-off can be configured

Cable Length:
7 ft (2.1 m) cable between scale base and indicator

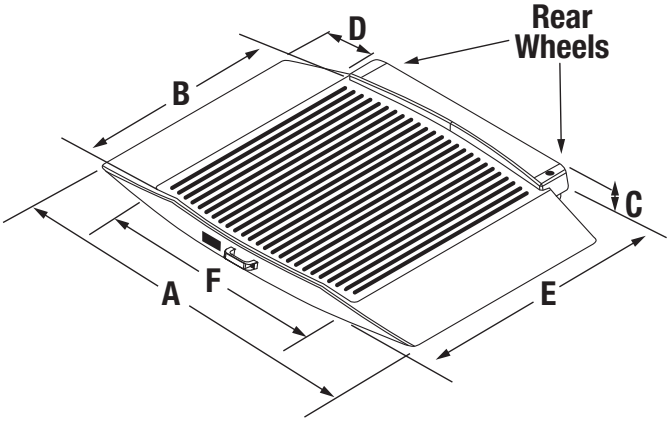
Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Dimensions

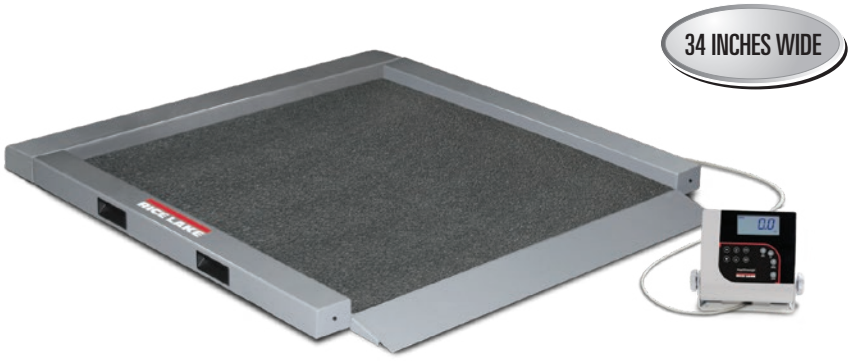
	Inches	Centimeters
A	48.50	123.2
B	32.00	81.3
C	2.40	6.1
D	9.30	23.6
E	38.00	96.5
F	29.50	74.9



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RL-350-5

Single-ramp Portable Bariatric Wheelchair Scale



Standard Features

- Large LCD display
- Antimicrobial keypad
- Integrated handles and wheels for easy transport
- Large, stable scale base
- Metal, nonslip platform
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Part Number/Price

Part #	Model #	Capacity	Price
150703	RL-350-5	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$2,925.00
205976	RL-350-5BLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$3,200.00

Shipping Weight

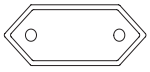
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
150703	RL-350-5	43 × 43 × 11 in	154	147	154
205976	RL-350-5BLE	43 × 43 × 11 in	154	147	154

Options/Accessories

Part #	Description	Price
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



† NEMA 1-15 Plug



†† CEE 7/16 Plug

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions Without Ramp:
(L × W × H)
34.00 × 34.00 × 2.20 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours of continuous use with batteries
Automatic power-off can be configured

Cable Length:
9 ft (2.7 m) cable between scale base and indicator

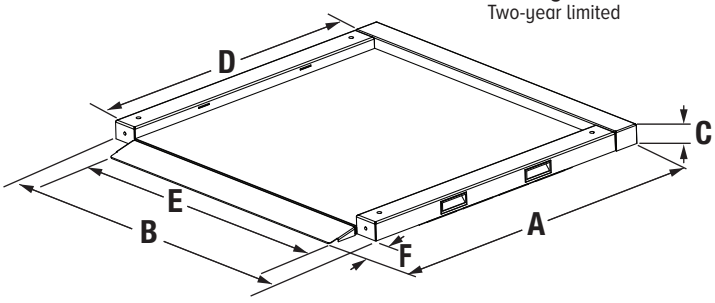
Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Dimensions

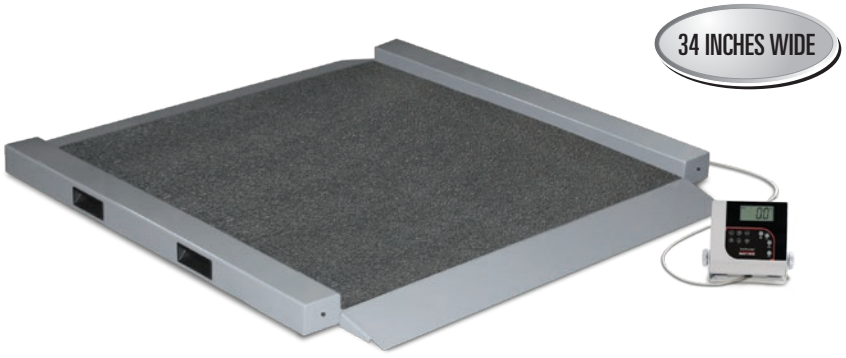
	Inches	Centimeters
A	41.00	104.1
B	40.00	101.6
C	2.20	5.6
D	34.00	86.4
E	34.00	86.4
F	3.70	9.4



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RL-350-6

Dual-ramp Portable Bariatric Wheelchair Scale



Part Number/Price

Part #	Model #	Capacity	Price
150704	RL-350-6	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$3,000.00
205974	RL-350-6BLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$3,275.00

Shipping Weight

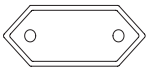
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
150704	RL-350-6	43 × 43 × 11 in	162	147	162
205974	RL-350-6BLE	43 × 43 × 11 in	162	147	162

Options/Accessories

Part #	Description	Price
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00
102508 ††	9VDC adapter, 100-240V, CEE 7/16 Plug, medical grade power supply	$30.00



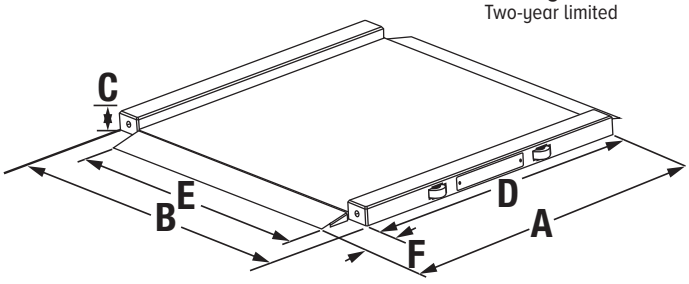
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	41.00	104.1
B	40.00	101.6
C	2.20	5.6
D	34.00	86.4
E	34.00	86.4
F	3.70	9.4



Standard Features

- Large LCD display
- Antimicrobial keypad
- Integrated handles and wheels for easy transport
- Dual ramp
- Large, stable scale base
- Metal, nonslip platform
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions Without Ramps:
(L × W × H)
34.00 × 34.00 × 2.20 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours of continuous use with batteries
Automatic power-off can be configured

Cable Length:
9 ft (2.7 m) cable between scale base and indicator

Display:
5-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

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SB-1150 Summit™

Bariatric Wheelchair Scale



Part Number/Price

Part #	Model #	Capacity	Price
150706	SB-1150	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$3,185.00
205977	SB-1150BLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$3,490.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
150706	SB-1150	49 × 48 × 24 in	363	407	407
205977	SB-1150BLE	49 × 48 × 24 in	363	407	407

Options/Accessories

Part #	Description	Price
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00



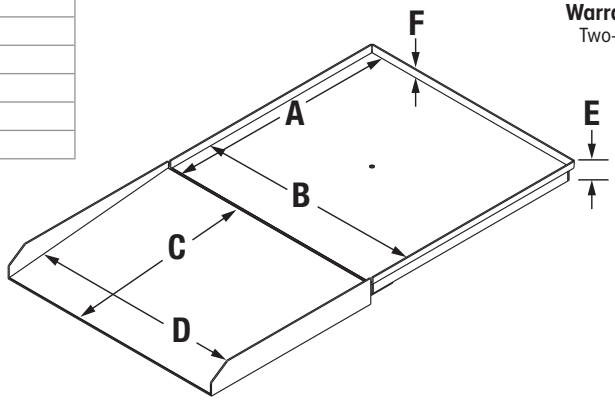
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	36.00	91.4
B	36.00	91.4
C	28.50	72.4
D	36.00	91.4
E	4.00	10.2
F	1.00	2.5



Standard Features

- Large LCD display
- Antimicrobial keypad
- Heavy-duty mild steel construction
- Single ramp
- Metal, nonslip platform
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions:
(L × W × H)
36.0 × 36.0 × 4.0 in

Ramp Dimensions:
(L × W × H)
36.0 × 28.5 × 4.0 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Cable Length:
10 ft (3.1 m) cable between scale base and indicator

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

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SD-1150-WP

Dialysis Wheelchair Scale

Wall mounted indicator, cable enclosed in customer supplied conduit.



Standard Features

- Package includes scale, pit frame, handrail and indicator
- Large LCD display
- Antimicrobial keypad
- Heavy-duty mild steel construction
- Live handrail for accuracy and patient safety
- Unit of measure toggle or locking
- Motiontrap™ movement compensation technology
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions:
(L × W × H)
36.00 × 36.00 × 3.00 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours of continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Cable Length:
10 ft (3.1 m) cable between scale base and indicator

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Warranty:
Two-year limited

Part Number/Price

Part #	Model #	Capacity	Price
150707	SD-1150-WP	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$3,245.00
205978	SD-1150-WPBLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$3,550.00

Shipping Weight

Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
150707	SD-1150-WP	40 × 39 × 15 in	246	169	246
205978	SD-1150-WPBLE	40 × 39 × 15 in	246	169	246

Options/Accessories

Part #	Description	Price
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00



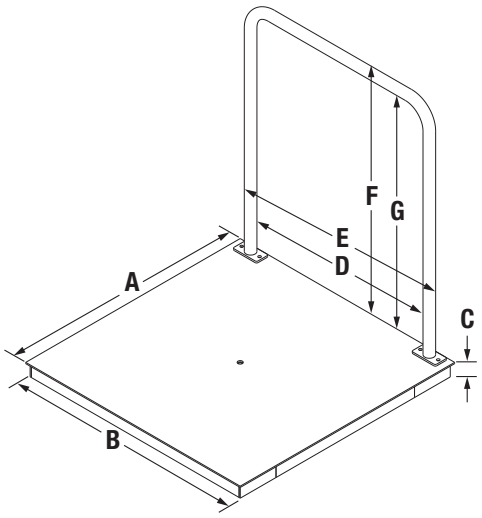
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	36.00	91.4
B	36.00	91.4
C	3.00	7.6
D	28.50	72.4
E	31.50	80.0
F	37.00	94.0
G	35.50	90.2



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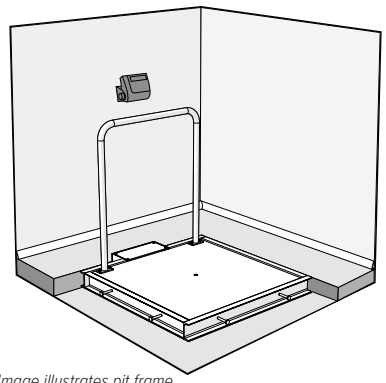
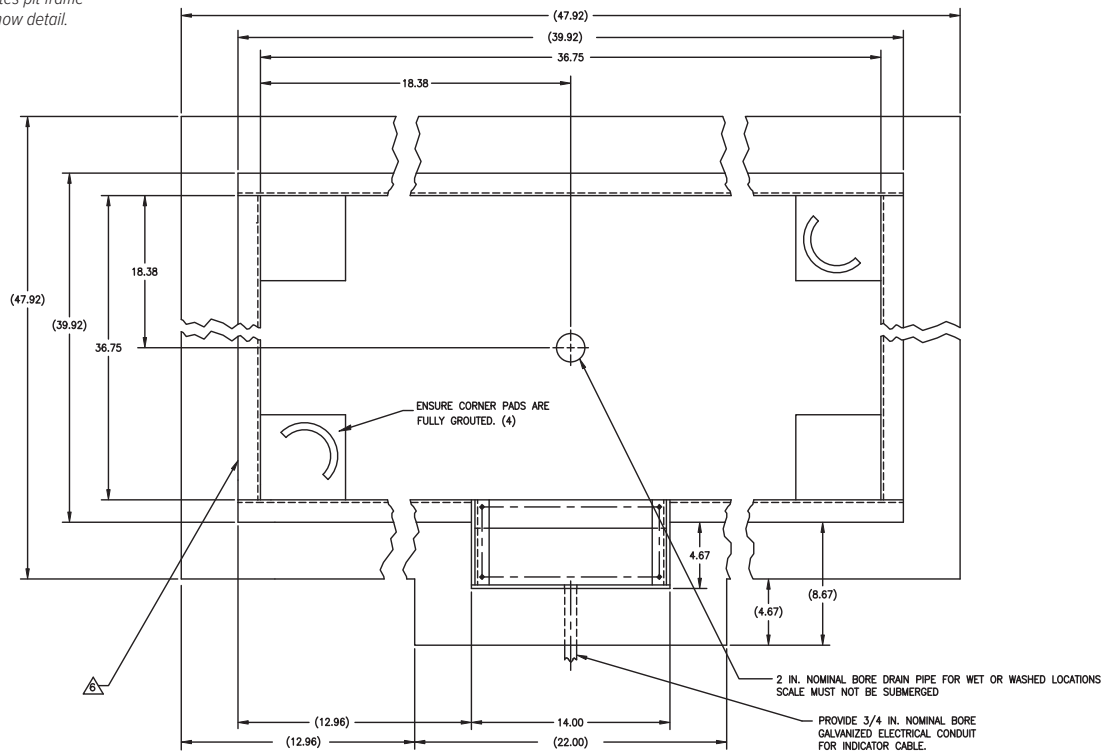
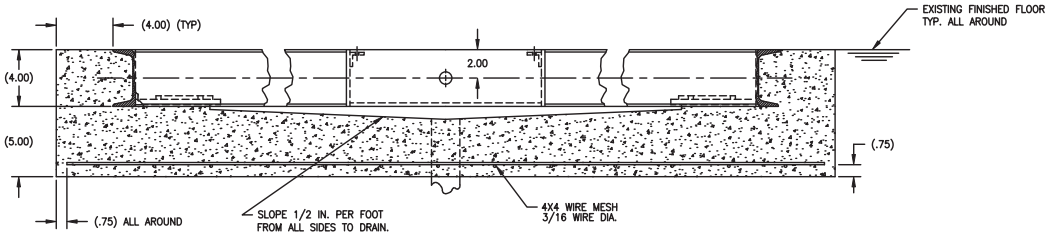


Image illustrates pit frame exposed to show detail.

Drawing dimensions shown in inches



NOTE: HANDRAIL ON SCALE WILL MOUNT ON SAME SIDE AS JUNCTION BOX POCKET



NOTE:

1. USE CONCRETE OF MINIMUM YIELD STRENGTH 5000 PSI OR 6–BAG MIX.
2. ALLOW 7 DAYS TO CURE. WET CONCRETE PERIODICALLY DURING THIS TIME.
3. DIMENSIONS SHOWN ASSUME FIRM, STABLE SOIL CONDITIONS. WHEN SOIL CONDITIONS ARE NOT ADEQUATE, PLACE FOUNDATION AT SUFFICIENT DEPTH.
4. IN WET OR WASHDOWN APPLICATIONS WE RECOMMEND THE USE OF HERMETICALLY SEALED LOAD CELLS, AND THAT THE JUNCTION BOX BE MOUNTED REMOTELY IN A DRY LOCATION.
5. WIRE MESH TO HAVE MINIMUM .75 COVER BOTTOM AND SIDES.

6 ON STAINLESS STEEL VERSIONS, TWO PIECES OF 2 INCH ANGLE WILL BE SUBSTITUTED FOR THE 4 INCH CHANNEL.

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350-10-8S

Digital Stretcher Scale



Standard Features

- Large LCD display
- Antimicrobial keypad
- Two wheels for easy transport
- Dual ramp
- Metal, nonslip platform
- Safety side rails
- Motiontrap™ movement compensation technology
- Unit of measure toggle or locking
- EMR capable
- Serial and USB data communication ports
- Wireless personal area network (WPAN) option available
- Tare function
- Hold function
- Body mass index (BMI) function
- Factory calibrated

Part Number/Price

Part #	Model #	Capacity	Price
203622	350-10-8S	1,000 × 0.2 lb (450 × 0.1 kg) with USB	$3,350.00
203623	350-10-8SBLE	1,000 × 0.2 lb (450 × 0.1 kg) WPAN	$3,650.00

Shipping Weight

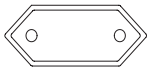
Part #	Model #	L × W × H	Package Wgt. (lb)	Dim Wgt. (lb)	Shipping Wgt. (lb)
203622	350-10-8S	67.2 × 36 × 6 in	154	104	154
203623	350-10-8SBLE	67.2 × 36 × 6 in	154	104	154

Options/Accessories

Part #	Description	Price
133077 †	9VDC adapter, 100-240V, NEMA 1-15 Plug, cULus power supply	$30.00



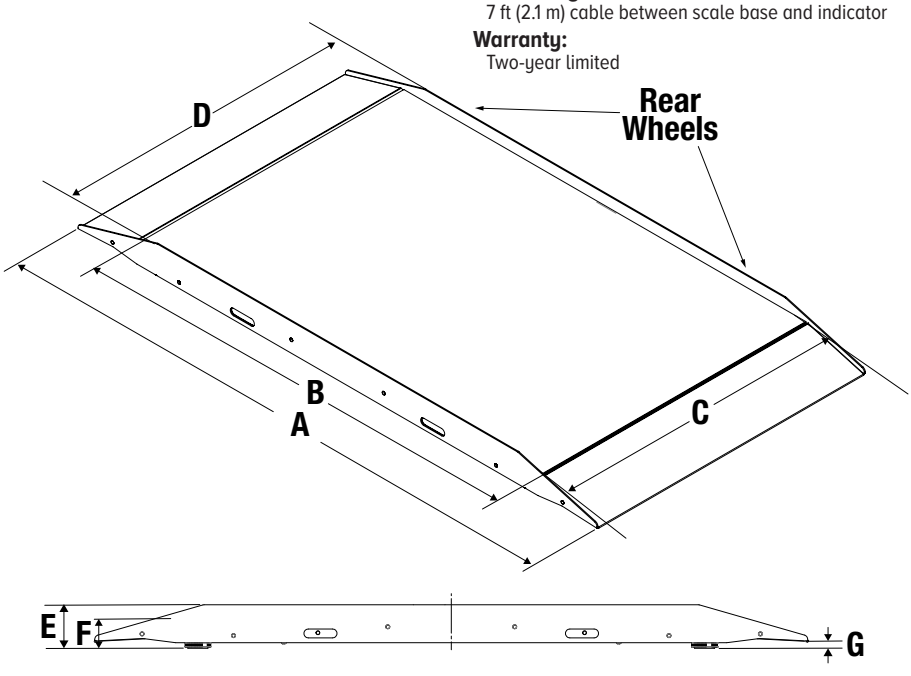
† NEMA 1-15 Plug



†† CEE 7/16 Plug

Dimensions

	Inches	Centimeters
A	63.80	162.1
B	49.30	125.3
C	32.70	83.1
D	32.90	83.6
E	3.90	9.9
F	2.60	6.7
G	0.55	1.4



Specifications

Capacity:
1,000 × 0.2 lb (450 × 0.1 kg)

Platform Dimensions Without Ramps:
(L × W × H)
49.30 × 32.70 × 2.60 in

Platform Dimensions with Wheels and Ramps:
(L × W × H)
63.80 × 32.70 × 2.60 in

Power:
9 VDC, provided by six AA alkaline batteries (included) or AC adapter (optional)

Battery Type:
Six AA alkaline (included)

Battery Use:
25 hours continuous use with batteries
Automatic power-off can be configured

Display:
Five-digit LCD display, 0.75 in (1.9 cm) digit height

Temperature:
Operating:
50 °F to 104 °F (10 °C to 40 °C)

Cable Length:
7 ft (2.1 m) cable between scale base and indicator

Warranty:
Two-year limited

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FIELDBUS CARDS

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720i™/920i®

PROFINET IO Interface 548
920i®

DeviceNet® Interface 549
720i™/920i®

ControlNet® Interface 549
920i®

EtherNet/IP™ Interface 550
720i™/920i®

Ethernet TCP/IP Interface 551
720i™/920i®

PROFIBUS® DP Interface 552
880™/882D/882IS/1280™

PROFINET Interface 552
880™/882D/882IS/1280™

DeviceNet® Interface 553
880™/882D/882IS/1280™

Modbus TCP Interface 553
880™/882D/882IS/1280™

EtherNet/IP™ Interface 554
880™/882D/882IS/1280™

EtherCAT® Interface 554
880™/882D/882IS/1280™

TranSend™ 555
Wireless Load Cell Interface System

SendIt™ 556
Wireless Load Cell Interface System

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Wireless Radio 900 MHZ Transceivers

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Visible Lights and Audible Alarms 559

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Harsh Environment Ethernet Connection System

AbleCable® 562
Serial Adapter RS-232 Cable to USB

Go-Between™ 563
Data Capture and Storage

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120/120 Plus

Digital Weight Indicator



Approvals

Measurement Canada Approved

EU LEGAL FOR TRADE CERTIFIED

Standard Features

120

- LED display
- Configurable analog to digital measurement rate
- Primary/secondary units configuration: lb, kg, ounces, grams
- Five-button operation
- Two independent communication ports
- Programmable ticket format, up to two 180-character printout
- Full front-panel digital calibration and configuration
- Tilt stand
- Three-stage digital filtering
- Consecutive transaction numbering
- Time and date (volatile)

120 Plus

- LCD display
- Internal rechargeable lithium battery and wall adapter
- Power save feature for 700 hours of battery life
- Ten stored tare values
- Display hold (based on three second average)
- Time and date
- Configurable with Revolution® software

Specifications

Power:
Line voltages: 115 or 230 VAC
Frequency: 50/60 Hz

Battery Life:
120 Plus
60 hours with one 350 ohm load cell,
40 hours with four 350 ohm load cells
Eight-hour charge time

Excitation Voltage:
5 VDC, 4 × 350 ohm or 8 × 700 ohm load cells

Analog Signal Input Range:
-0.6 mV/V to 3.0 mV/V

Analog Signal Sensitivity:
0.3 µV/graduation minimum,
1.5 µV/grad recommended

A/D Sample Rate:
120: 3 to 30 Hz, software selectable
120 Plus: 30 Hz

Resolution:
Internal: 1,000,000 counts
Display: 10,000

System Linearity:
Within 0.01% of full scale

(Optional) Digital I/O:
120 Plus: Requires option card
24 volt source
Three digital inputs
Two digital outputs

Circuit Protection:
RFI, EMI, ESD protected

Load Cell Connection:
Cord grip entry
Detachable plug (optional)

Communication Port:
EDP port: Full duplex RS-232
Printer port: Output-only RS-232
or active 20 mA current loop
Both ports: 9600, 4800, 2400, 1200, 600, 300bps;
Seven or eight data bits; even, odd or no parity

Annunciators:
120/120 Plus: Center of zero, standstill, gross, net, lb, kg, oz, g
120 Plus: Battery, setpoint 1 and 2, hold

Display:
120: 0.8 in (20 mm), six-digit red light emitting diode (LED) display, seven-segment digits
120 Plus: 0.8 in (20 mm) six-digit LCD with backlight, seven-segment digits

Keys/Buttons:
120: Five-key flat membrane panel, tactile feel
120 Plus: Zero, tare, preset tare, hold, gross/net, units, numeric 0-9, clear, enter/print

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
Enclosure: Heavy gauge ABS

Weight:
2.6 lb (1.2 kg)

Warranty:
One-year limited

Approvals:
NTEP 03-059 Class III/IIIL 10,000 d
Measurement Canada AM-5517
EU Test Certificate TC7626
CE Marked

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Part Number/Price

Part #	Description	Est. Weight	Price
120			
131923	Desktop 115 VAC/230 VAC	3 lb	$525.00
120 Plus			
103632	Desktop 115/230 VAC	3 lb	$670.00
107619	Desktop 115/230 VAC with digital I/O option	3 lb	$720.00

NOTE: Both plugs included with power supply


US Plug


Euro Plug

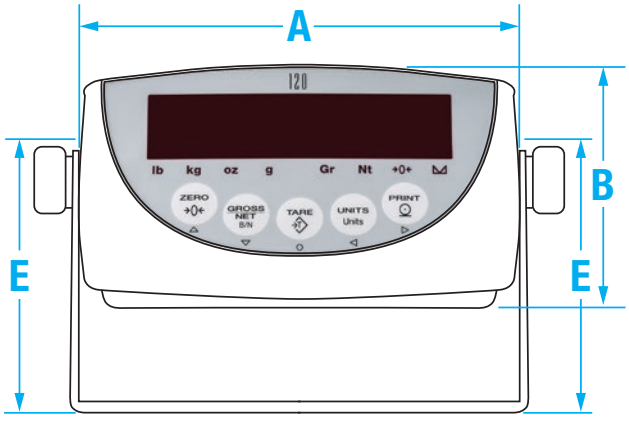
Options/Accessories

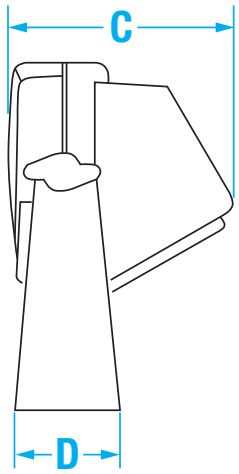
Part #	Description	Price
93205	Load cell connector with 6 m length pigtail (requires 103507)	$60.00
82505	Six-pin socket external load cell connector (requires 103507)	$16.00
103507	External load cell plug replaces cord grip (requires 82505 or cable 93205)	$42.00
107620	Digital I/O card for 120 Plus	$95.00
105670	15-pin connector for 120 Plus	$14.00
106705	15-pin Interface cable for 120 Plus, 2 m length	$39.00
76699	Additional operating manual for 120	$39.00
105914	Additional operating manual for 120 Plus	$37.00
Primary Component Parts for 120		
131924	Board assembly for use with internal load cell connector	$315.00
78610	Overlay membrane switch	$70.00
131925	Power supply, 115 VAC/230 VAC	$47.00
64794	Cable, null modem DB9F to DB9M	$69.00
Primary Component Parts for 120 Plus		
103634	CPU/Display board assembly	$430.00
103635	Overlay membrane switch	$70.00
103636	Power supply, 115 VAC/230 VAC	$47.00
103637	Rechargeable battery	$100.00

Revolution® can be downloaded for free at www.ricelake.com
To have your option factory installed, please specify when placing your order.

Dimensions

120/120 Plus			
A	7.32 in (186 mm)	D	1.65 in (42 mm)
B	6.06 in (154 mm)	E	4.76 in (121 mm)
C	3.74 in (95 mm)		





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CW-90

Checkweigh Indicator



Approvals

Measurement Canada Approved

OIML

EU LEGAL FOR TRADE CERTIFIED

CE

NSF

c UL us LISTED

Dimensions

CW-90	
A	9.50 in (241 mm)
B	10.02 in (255 mm)
C	11.24 in (285 mm)
D	3.12 in (79 mm)
E	6.00 in (152 mm)
F	8.57 in (218 mm)
G	3.75 in (95 mm)
H	4.00 in (102 mm)

Standard Features

- Gore-Tex® breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz
- LED display
- Two full duplex serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or fiber-optic
- Four configurable digital I/O
- Firmware is field upgradeable by reflashing memory
- Auto print capability
- Battery backed up time and date
- Accumulator
- Membrane keypad consisting of zero, units, print, tare, over, under, ID, target, 0 to 9, clear, decimal, enter, menu, power

Specifications

Power:
Line voltages: 115 to 230 VAC
Frequency: 50/60 Hz

Power Consumption:
1.5 A at 115 VAC (8 W)
0.75 A at 230 VAC (8 W)

Excitation Voltage:
+5 VDC 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:
-0.5 mV/V to 4.5 mV/V

Analog Signal Sensitivity:
0.3 uV/graduation minimum
1.5 uV/graduation recommended

A/D Sample Rate:
7.5 to 960 Hz software selectable

Resolution:
Display: 100,000 counts

System Linearity:
± 0.01% full scale

Digital I/O:
Four channels on CPU board

Circuit Protection:
RFI, EMI, ESD protection

Annunciators:
Designators for percent, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

Display:
Large 0.8 in 14-segment, six-digit high-intensity red LED display

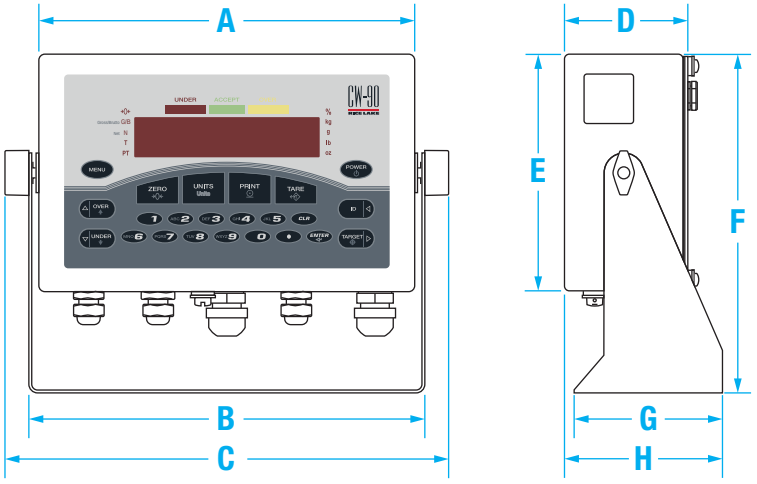
Keys/Buttons:
Membrane keypad, 23 keys with international symbols

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)

Rating/Material:
IP66, 304 stainless steel

Warranty:
Two-year limited

Approvals:
NTEP 08-092, Class III/IIIL 10,000 d
Measurement Canada AM-5710
OIML R76/2006-GBI-10.02
EU Evaluation Cert TC11569
CE Marked
NSF
cULus Listed



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Part Number/Price

Part #	Description	Est. Weight	Price
105970†	CW-90, 115 VAC	7 lb	$1,045.00
105971††	CW-90, 230 VAC, CE marked/OIML approved	7 lb	$1,045.00
118888†	CW-90, 230 VAC	7 lb	$1,045.00
171247†††	CW-90, 230 VAC	7 lb	$1,045.00



† *US plug (NA) - Type B*



†† *Euro Plug - Type E*



††† *IEC Type I plug*

Options/Accessories

Part #	Description	Price
200578	Ethernet TCP/IP, 10 ft cable included	$595.00
206272	RS-232/Wi-Fi interface 802.11 A/B	$610.00
95357	USB cable, Type A to mini-B, 1 m	$11.00
171968	Firmware download cable	$39.00
117358	WeighVault® (requires part number 200578 or 206272)	$265.00

To have your option factory installed, please specify when placing your order.

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CW-90X

Checkweigh Indicator



Approvals

Measurement Canada Approved

Dimensions

CW-90X	
A	9.50 in (241 mm)
B	10.02 in (255 mm)
C	11.24 in (285 mm)
D	3.12 in (79 mm)
E	6.00 in (152 mm)
F	8.57 in (218 mm)
G	3.75 in (95 mm)
H	4.00 in (102 mm)

Standard Features

- Gore-Tex® breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz
- LED display
- Two full duplex serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or fiber-optic
- Four configurable digital I/O
- Firmware is field upgradeable by reflashing memory
- Auto print capability
- Battery backed up time and date
- Accumulator
- Piezo keypad consisting of zero, units, print, tare, over, under, ID, target, enter, menu, power

Specifications

Power:
Line voltages: 115 to 230 VAC
Frequency: 50/60 Hz

Power Consumption:
1.5 A at 115 VAC (8 W)
0.75 A at 230 VAC (8 W)

Excitation Voltage:
+5 VDC 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:
-0.5 mV/V to 4.5 mV/V

Analog Signal Sensitivity:
0.3 uV/graduation minimum
1.5 uV/graduation recommended

A/D Sample Rate:
7.5 to 960 Hz software selectable

Resolution:
Display: 100,000 counts

System Linearity:
± 0.01% full scale

Digital I/O:
Four channels on CPU board

Circuit Protection:
RFI, EMI, ESD protection

Annunciators:
Designators for percent, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

Display:
Large 0.8 in 14-segment, six-digit high-intensity red LED display

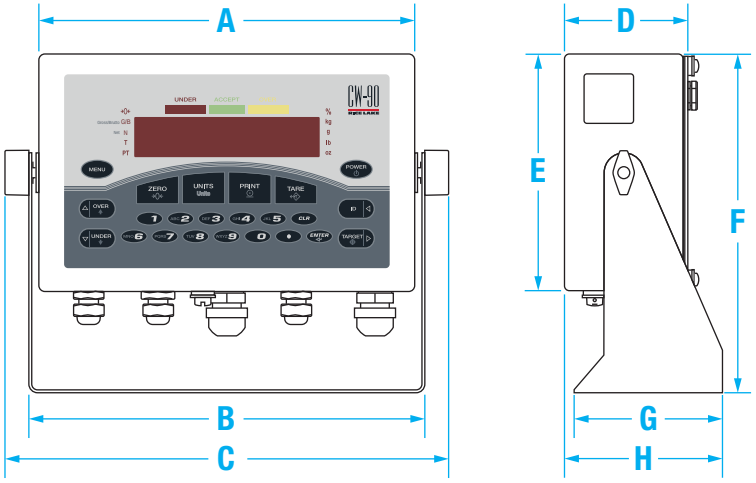
Keys/Buttons:
Piezo keypad, 11 keys with international symbols

Temperature Range:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)

Rating/Material:
IP69K, 304 stainless steel

Warranty:
Three-year limited

Approvals:
NTEP 08-092, Class III/IIIL 10,000 d
Measurement Canada AM-5710
OIML R76/2006-GBI-10.02
EU Eval Certificate TC11569
CE Marked
NSF
cULus Listed



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Part Number/Price

Part #	Description	Est. Weight	Price
105972†	CW-90X, 115 VAC	7 lb	$1,095.00
105973††	CW-90X, 230 VAC, CE marked/OIML approved	7 lb	$1,095.00
118889†	CW-90X, 230 VAC	7 lb	$1,095.00
171248†††	CW-90X, 230 VAC	7 lb	$1,095.00



† US plug (NA) - Type B



†† Euro Plug - Type E



††† IEC Type I plug

Options/Accessories

Part #	Description	Price
200578	Ethernet TCP/IP, 10 ft cable included	$595.00
206272	RS-232/Wi-Fi interface 802.11 A/B	$610.00
95357	USB cable, Type A to mini-B, 1 m	$11.00
171968	Firmware download cable	$39.00
117358	WeighVault® (requires part number 200578 or 206272)	$265.00

To have your option factory installed, please specify when placing your order.

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380 Synergy Series

Digital Weight Indicator



Approvals

Measurement Canada Approved

Standard Features

- LCD display
- Alkaline battery powered
- Push-button and keyed tare
- Two communication ports
- Configurable print formats

Options

- Time/date
- External power supply

Part Number/Price

Part #	Description	Est. Weight	Price
202711	380 Universal battery powered	6.25 lb (3 kg)	$705.00

Options/Accessories

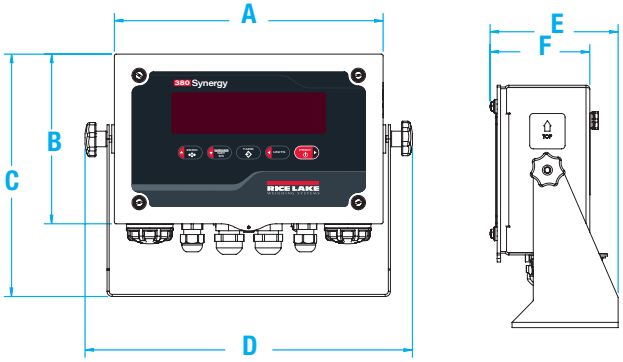
Part #	Description	Price
206433†	External AC adapter	$60.00
204258	Real time clock module	$127.00
223864	Knob, stainless steel M6 x 1.0 inch	$15.00

To have your option factory installed, please specify when placing your order.

† *US plug (NA) - Type A*

Dimensions

380 Synergy Series			
A	9.50 in (241 mm)	D	11.58 in (294 mm)
B	6.00 in (152 mm)	E	4.53 in (115 mm)
C	8.57 in (218 mm)	F	3.53 in (90 mm)



Specifications

Power:
Batteries: Four alkaline C-cell (not included)
Optional: 115/230 VAC to 12 VDC adapter

Power Consumption:
6 W max with optional external power adapter

Battery Life:
100 hours with one 350 ohm load cell, no backlight
45 hours with four 350 ohm load cells, low backlight
20 hours with eight 350 ohm load cells, low backlight

Excitation Voltage:
5 VDC, 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:
-0.3 mV to +30 mV
Common mode voltage 0.7 V to 3.3 V

Analog Signal Sensitivity:
1 µV/graduation recommended

A/D Sample Rate:
Gen 1: 5, 6, 10, 12, 20, 25, 40, 50, 80, 100Hz
Software selectable
Gen 2: 6, 8, 12, 15, 30, 50, 60, 100, 120 Hz
Software selectable

Resolution:
Internal: 8,000,000 counts
Display: 100,000

System Linearity:
Within 0.01% full scale

Communication Ports:
One full-duplex RS-232
One USB 2.0

Annunciators:
g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Display:
Six 1 in (25 mm) tall, LCD digits

Keys/Buttons:
Five tactile buttons

Dimensions:
(L × W × H)
11.58 × 4.53 × 8.57 in
(294 × 115 × 218 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Industrial: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
IP66, 304 stainless steel

Weight:
6.25 lb (3 kg)

Warranty:
Two-year limited

EMC Immunity:
10 V/m

Approvals:
NTEP 21-051 Class III/IIIL 10,000 d
Measurement Canada AM-6184
CE Marked
UKCA
cULus Listed
IEC

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Approvals

Measurement Canada Approved

Standard Features

- LCD display
- Battery powered, internal charger
- Push button and keyed tare
- Two communication ports
- Five-tactile buttons
- Configurable print formats

Options

- Time/date

Part Number/Price

Part #	Description	Est. Weight	Price
214337	380X Universal battery powered	6.25 lb (3 kg)	$800.00

Options/Accessories

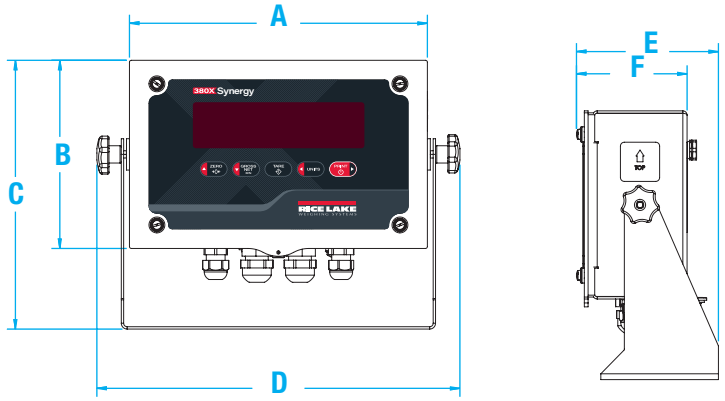
Part #	Description	Price
204258	Real time clock module	$127.00
223864	Knob, stainless steel M6 x 1.0 inch	$15.00

To have your option factory installed, please specify when placing your order.

† US plug (NA) - Type B

Dimensions

380X Synergy Series			
A	9.50 in (241 mm)	D	11.58 in (294 mm)
B	6.00 in (152 mm)	E	4.53 in (115 mm)
C	8.57 in (218 mm)	F	3.53 in (90 mm)



Specifications

Power:
Battery: Lithium ion
Charger: 120 VAC internal

Power Consumption:
25 W max with internal power

Battery Life:
45 hours, one 350 ohm load cell, no backlight
15 hours, four 350 ohm load cells, no backlight
10 hours, eight 350 ohm load cells, backlight

Excitation Voltage:
5 VDC, 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:
-0.3 mV to +30 mV
Common mode voltage 0.7 V to 3.3 V

Analog Signal Sensitivity:
1 µV/graduation recommended

A/D Sample Rate:
Gen 1: 5, 6, 10, 12, 20, 25, 40, 50, 80, 100 Hz
Software selectable
Gen 2: 6, 8, 12, 15, 30, 50, 60, 100, 120 Hz
Software selectable

Resolution:
Internal: 8,000,000 counts
Display: 100,000

System Linearity:
Within 0.01% full scale

Communication Ports:
One full-duplex RS-232 (three-wire)
One USB 2.0

Annunciators:
g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Display:
Six 1 in (25 mm) tall, LCD digits

Keys/Buttons:
Five-tactile buttons

Dimensions:
(L × W × H)
11.58 × 4.53 × 8.57 in
(294 × 115 × 218 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
IP69K, 304 Stainless steel

Weight:
6.25 lb (3 kg)

Warranty:
One-year limited on battery
Two-year limited on indicator and parts

EMC Immunity:
10 V/m

Approvals:
NTEP 21-051
Measurement Canada AM-6184
CE
UKCA
cULus
IEC

381 Synergy Series

Digital Weight Indicator



Approvals

Measurement Canada Approved

Standard Features

- LCD display
- Battery powered
- Push-button and keyed tare
- Two communication ports
- Five tactile buttons
- Configurable print formats
- ABS enclosure

Options

- Time/date

Part Number/Price

Part #	Description	Price
215695	381 Universal, AA battery powered	$395.00
215696	381 Universal, Nickel metal hydride (NiNH) battery powered	$495.00

Options/Accessories

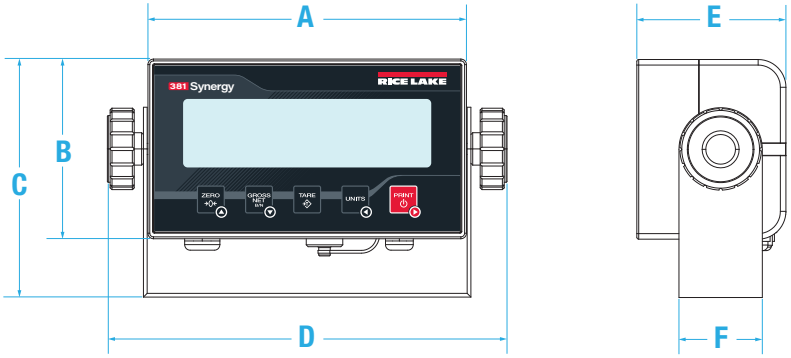
Part #	Description	Price
215273	RS-232 DB9 cable, 1.5 m DB9 female RJ11 connector, compatible with 381 model	$95.00
204258	Real time clock module	$127.00
216647	3 mm t-handle hex key	$6.00
223864	Knob, stainless steel M6 x 1.0 inch	$15.00

To have your option factory installed, please specify when placing your order.

† US plug (NA) - Type B

Dimensions

381 Synergy Series			
A	6.77 in (172 mm)	D	8.50 in (216 mm)
B	3.82 in (97 mm)	E	3.17 in (81 mm)
C	5.06 in (129 mm)	F	1.77 in (45 mm)



Specifications

Power:
Battery: AA or Nickel Metal Hydride (NiMH)
381-2D-AA Adapter: 115/230 VAC to 12 VDC
381-2D-NiMH Charger: 115/230 VAC

Power Consumption:
AA: input 0.8 A
(6 W while using AC adapter)
NiMH: input of 0.35 A

Battery Life:
AA: 40 hours with one 350 ohm load cell
NiMH: 80 hours with one 350 ohm load cell

Excitation Voltage:
5 VDC, 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:
-0.3 mV to +30 mV common mode voltage
0.7 V to 3.3 V

Analog Signal Sensitivity:
1 µV/graduation recommended

A/D Sample Rate:
Gen 1: 5, 6, 10, 12, 20, 25, 40, 50, 80, 100Hz
Software selectable
Gen 2: 6, 8, 12, 15, 30, 50, 60, 100, 120 Hz
Software selectable

Resolution:
Internal: 8,000,000 counts
Display: 100,000

System Linearity:
Within 0.01% full scale

Communication Ports:
One full-duplex RS-232
One USB 2.0

Annunciators:
g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Display:
Six 1 in (25 mm) tall, LCD digits

Keys/Buttons:
Five tactile buttons

Dimensions:
(L × W × H)
8.50 × 3.17 × 5.06 in
(215.8 × 80.5 × 128.5 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
AA Battery: IP54, ABS
NiMH Battery: IP66, ABS

Warranty:
Two-year limited

EMC Immunity:
10 V/m

Approvals:
NTEP 21-051 Class III/IIIL, 10,000 d
Measurement Canada AM-6184
CE Listed
UKCA

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Approvals

Measurement Canada Approved · OIML · NOM · EU LEGAL FOR TRADE CERTIFIED · CE · UKCA · cULus LISTED · IEC · National Measurement Institute

Standard Features

- LED display
- Battery backed time and date
- Full numeric keypad
- Multiple communication ports
- 20 setpoint, 22 configurable types
- Numeric keyed entry for tare and setpoint entry
- Formattable tickets
- Four onboard configurable digital I/O points, TTL logic
- Built-in batch presets
- Local/remote

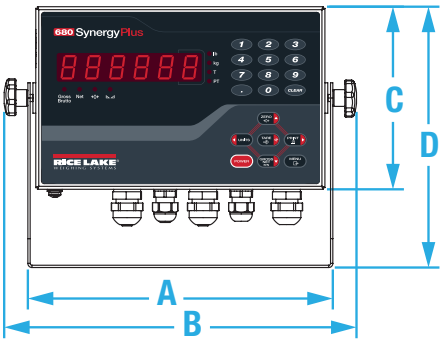
Options

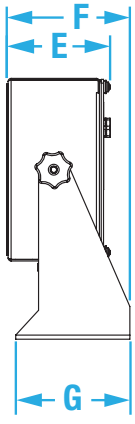
- Analog output: 16-bit resolution, 0-10 VDC, 0-20 mA, 4-20 mA
- RJ45 Ethernet connector

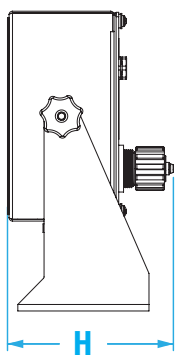
Note: IP Rating is IP66 with RJ45 option. Rating is valid only when the cover is in place, not in use.

Dimensions

680 Synergy Series			
A	10.02 in (255 mm)	E	3.40 in (86 mm)
B	11.58 in (294 mm)	F	4.05 in (103 mm)
C	6.00 in (152 mm)	G	3.80 in (97 mm)
D	8.57 in (218 mm)	H	4.74 in (120 mm)







With External RJ45 Connector

Specifications

Power:
Line voltages: 100 to 240 VAC
Frequency: 50 to 60 Hz

Power Consumption:
2 W (AC) one 350 ohm load cell, 15 W max

Excitation Voltage:
10 VDC (± 5 VDC), 8 × 350 ohm or
16 × 700 ohm load cells

Analog Signal Input Range:
-5 mV to +70 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum
1 µV/graduation recommended

A/D Sample Rate:
6.25 to 120 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 1,000,000

System Linearity:
Within 0.01% full scale

Digital I/O:
Four configurable I/O - 5 V logic

(Optional) Analog Output:
16-bit resolution, voltage output 0-10 VDC, current output 0-20 mA/4-20 mA

Communication Ports:
Two full-duplex RS-232
RS-485/422 (five-wire)
Micro USB (device)
Ethernet TCP/IP (10/100)

Annunciators:
Eight LED annunciators

Display:
Seven 0.8 in tall, seven-segment digits

Keys/Buttons:
Flat membrane panel, tactile feel
(18 buttons plus ON/OFF)

Dimensions:
(L × W × H)
11.58 × 4.05 × 8.57 in
(294 × 103 × 218 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Industrial: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
IP69K (IP66 with RJ45)
AISI 304 stainless Steel

Weight:
6.25 lb (3 kg)

Warranty:
Two-year limited

EMC Immunity:
10 V/m

Approvals:
NTEP 19-021, Class III/IIIL, 10,000 d
Measurement Canada AM-6121C
OIML R76/2006-A-NL1-19.56
NOM
EU Eval Certificate TC11562
CE Listed
UKCA
cULus Listed
IEC
NMI

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680 Synergy Series

Digital Weight Indicator

Part Number/Price

Part #	Description	Est. Weight	Price
115 to 230 VAC			
193152†	680 Plus indicator, LED display, US power cord	7 lb	$1,025.00
193153††	680 Plus indicator, LED display, EU power cord	7 lb	$1,025.00
196326†††	680 Plus indicator, LED display, UK power cord	7 lb	$1,025.00
196327††††	680 Plus indicator, LED display, AUS power cord	7 lb	$1,025.00
9 to 36 VDC			
193154*	680 Plus indicator, LED display	7 lb	$1,140.00
With Analog Output Card			
195176†	680 Plus indicator, LED display, 115-230 VAC with analog output card, US power cord	7 lb	$1,350.00
195177††	680 Plus indicator, LED display, 115-230 VAC with analog output card, EU power cord	7 lb	$1,350.00
196539†††	680 Plus indicator, LED display, 115-230 VAC with analog output card, UK power cord	7 lb	$1,350.00
196538††††	680 Plus indicator, LED display, 115-230 VAC with analog output card, AUS power cord	7 lb	$1,350.00
With External RJ45 Connector**			
200183†	680 Plus Indicator, LED display, 115-230 VAC with RJ45, US power cord	7 lb	$1,175.00
200184††	680 Plus Indicator, LED display, 115-230 VAC with RJ45, EU power cord	7 lb	$1,175.00
200185†††	680 Plus Indicator, LED display, 115-230 VAC with RJ45, UK power cord	7 lb	$1,175.00
200186††††	680 Plus Indicator, LED display, 115-230 VAC with RJ45, AUS power cord	7 lb	$1,175.00

**Not UL approved*
***IP rating is IP66 with RJ45 option*

Options/Accessories

Part #	Description	Price
195084	Analog output option card	$360.00
151099	Panel mount option, gasketed non-NEMA seal	$215.00
223864	Knob, stainless steel M6 x 1.0 in	$15.00
195684	CPU board	$505.00
194477	Parts kit	$33.50

To have your option factory installed, please specify when placing your order.



† US plug (NA) - Type B



†† Euro Plug - Type E



††† BS1363 (UK) - Type G



†††† AS 3112 (Australian) - Type I

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682 Synergy Series

Digital Weight Indicator



Approvals

Measurement Canada Approved

EU LEGAL FOR TRADE CERTIFIED

National Measurement Institute

Standard Features

- Graphical, LCD color display with configurable softkeys
- Numeric, tactile keypad for scale operations, numeric entry and navigation
- Multi-language operation and text entry
- Formattable tickets
- Battery backed time and date
- Multiple communication ports
- 20 setpoints, 27 configurable types
- Fieldbus communication using Rice Lake's SCT-2200 modules and RS-485 port
- Built-in web server for remote access, systems integration and data monitoring
- Built-in Truck In/Out application
- Built-in batch presets
- Four onboard configurable digital I/O points, TTL logic
- Continuous/demand serial scale input
- Multi-range/interval

Options

- Analog output: 16-bit resolution, 0 to 10 VDC, 0 to 20 mA, 4 to 20 mA
- Relay card
- Dual serial card
- RJ45 Ethernet connector

Note: IP Rating is IP66 with RJ45 option. Rating is valid only when the cover is in place, not in use.

Specifications

Power:
Line voltage: 100 to 240 VAC, 50/60 Hz
Optional: 9 to 36 VDC

Power Consumption:
3.2 W (AC) one 350 ohm load cell, 15 W max;
4 W four 350 ohm load cells or
eight 700 ohm load cells

Excitation Voltage:
10 VDC (± 5 VDC), 8 × 350 ohm or
16 × 700 ohm load cells

Analog Signal Input Range:
-5 mV to +70 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum
1 µV/graduation recommended

A/D Sample Rate:
6.25 to 120 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 1,000,000

System Linearity:
Within 0.01% full scale

Digital I/O:
Four configurable I/O, 5 V logic

(Optional) Analog Output:
16-bit resolution, voltage output 0 to 10 VDC, current output 0 to 20 mA/4 to 20 mA

(Optional) Relay Board:
Four normally open dry contact relays and can switch 20 to 250 VAC @ 3 A or 30 VDC @ 3 A. Use of external fusing to limit current is recommended. Relay COM-NO are transient protected to 400 V @ 600 W

Communication Ports:
Two full-duplex RS-232
RS-485/422 (two-wire or four-wire)
Micro USB (device)
Ethernet TCP/IP (10/100)
Wi-Fi

Annunciators:
Zero, Gross/Net, Tare, Wi-Fi, WPAN

Display:
Five-inch LCD, 800 × 480 pixel, 500 NIT

Keys/Buttons:
Flat membrane panel, tactile feel
18 buttons plus five softkeys and power

Dimensions:
(L x W x H)
10.0 x 4.0 x 8.6 in
(254 x 102 x 218 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Industrial: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
IP69K (IP66 with RJ45 option)
AISI 304 Stainless Steel

Weight:
6.25 lb (2.84 kg)

Warranty:
Two-year limited

Approvals:
NTEP 19-021, Class III/IIIL, 10,000 d
Measurement Canada AM-6121C
OIML R76 2006 A NL1 19.56R3
NOM
EU Eval Certificate TC11562
CE Listed
UKCA
cULus
NMI

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682 Synergy Series

Digital Weight Indicator

Part Number/Price

Part #	Description	Est. Weight	Price
115-230 VAC			
193155†	682 Plus indicator, LCD display, US power cord	7 lb	$1,175.00
193156††	682 Plus indicator, LCD display, EU power cord	7 lb	$1,175.00
207348†††	682 Plus indicator, LCD display, UK power cord	7 lb	$1,175.00
207349††††	682 Plus indicator, LCD display, AU power cord	7 lb	$1,175.00
9-36 VDC			
193157	682 Plus indicator, LCD display	7 lb	$1,300.00
With External RJ45 Connector*			
207354†	682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, US power cord	7 lb	$1,350.00
207355††	682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, EU power cord	7 lb	$1,350.00
207356†††	682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, UK power cord	7 lb	$1,350.00
207357††††	682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, AU power cord	7 lb	$1,350.00

**IP rating is IP66 with RJ45 option*



† US plug (NA) - Type B



†† Euro Plug - Type E



††† BS1363 (UK) - Type G



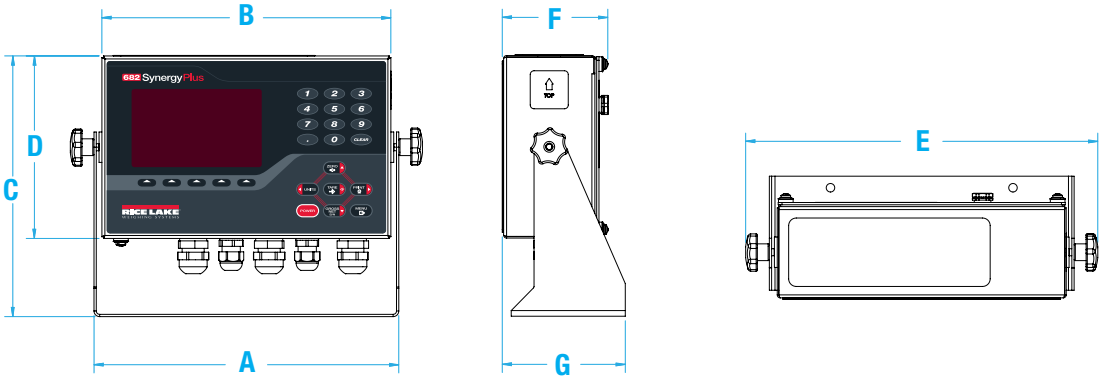
†††† AS 3112 (Australian) - Type I

Options/Accessories

Part #	Description	Price
195084	Analog output	$360.00
211709	Relay board	$360.00
211710	Serial output	$360.00
151099	Panel Mount	$215.00
211701	Replacement CPU	$545.00
223864	Knob, stainless steel M6 x 1.0 inch	$15.00
194477	Parts kit	$33.50
Fieldbus		
182592	Fieldbus, SCT-2200, PROFINET module	$625.00
194343	Fieldbus, SCT-2200, Ethernet TCP/IP and Wi-Fi	$620.00
182593	Fieldbus, SCT-2200, PROFIBUS® module	$425.00
182591	Fieldbus, SCT-2200, EtherNet/IP™ module	$625.00
182596	Fieldbus, SCT-2200, DeviceNet® module	$625.00
182598	Fieldbus, SCT-2200, EtherCAT module	$620.00
182597	Fieldbus, SCT-2200, CANopen module	$620.00
196694	Fieldbus, SCT-2200, Modbus TCP module	$620.00
182599	Cable with RJ45 plugs, 6 in length	$15.00
212772	Fieldbus, SCT-2200, PROFIBUS module	$425.00

Dimensions

682 Synergy Series			
A	10.00 in (254 mm)	E	11.60 in (295 mm)
B	9.50 in (241 mm)	F	3.50 in (89 mm)
C	8.60 in (218 mm)	G	4.00 in (102 mm)
D	6.00 in (152 mm)		



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680HE Synergy Series

Hostile Environment Digital Weight Indicator



Approvals

Measurement Canada Approved

Part Number/Price

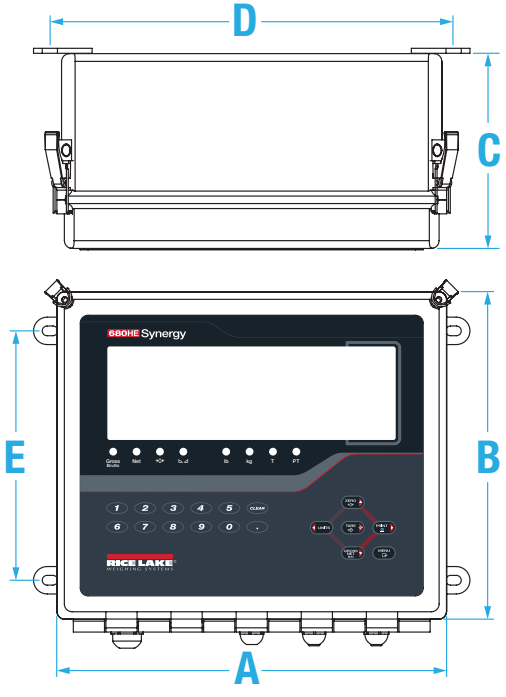
Part #	Description	Est. Weight	Price
197177	680HE Plus indicator, 115 to 230 VAC	6.25 lb (3 kg)	$2,170.00
199574	680HE Plus indicator, 115 to 230 VAC with external RJ45	6.25 lb (3 kg)	$2,300.00

Options/Accessories

Part #	Description	Price
195084	Analog output option card	$360.00

Dimensions

680HE Synergy Series			
A	12.50 in (318 mm)	D	13.00 in (330 mm)
B	10.50 in (267 mm)	E	8.00 in (203 mm)
C	6.30 in (160 mm)		



Standard Features

- LED display
- Battery backed time and date
- Full numeric keypad
- Multiple communication ports
- Eight setpoints, 22 configurable types
- Numeric keyed entry for tare and setpoint entry
- Formattable tickets
- Four onboard configurable digital I/O points, TTL logic
- Local/remote

Options

- Ethernet bulkhead connector
- Analog output: 16-bit resolutions, 0 - 10 VDC, 0 - 20 mA, 4 - 20 mA

Specifications

Power:
Line voltages: 100 to 240 VAC
Frequency: 50/60 Hz

Power Consumption:
12 W (AC) with one 350 ohm load cell, 30 W max

Excitation Voltage:
10 VDC (± 5 VDC), 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:
-0.5 mV/V to +7 mV/V

Analog Signal Sensitivity:
1 µV/graduation recommended

A/D Sample Rate:
6.25 to 120 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 100,000

System Linearity:
Within 0.01% full scale

Digital I/O:
Four configurable I/O-5 V logic

Communication Ports:
Two full-duplex RS-232
RS-485/422 (five-wire)
Micro USB (device)
Ethernet TCP/IP (10/100)

Annunciators:
Eight LED annunciators

Display:
Six 2.5 in tall, seven-segment digits

Keys/Buttons:
Flat membrane panel, tactile feel (18 buttons)

Dimensions:
(L × W × H)
12.50 × 6.30 × 10.50 in
(318 × 160 × 267 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
IP66, FRP

Weight:
7.9 lb (3.5 kg)

Warranty:
Two-year limited

EMC Immunity:
10 V/m

Approvals:
NTEP 19-021, Class III/IIIL, 10,000 d
Measurement Canada AM-6121C
CE Marked
UKCA
cULus Listed
IEC

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720i™ Series

Programmable Digital Weight Indicator/Controller



Universal

Approvals

Measurement Canada Approved

Standard Features

- LCD display
- Four softkeys
- Truck In/Out, 1,000-ID memory (PCE software version)
- 32 setpoints, 26 configurable types (Batch software version)
- Process control engine ProAction PCE define conditions and actions
- Data storage onboard, ProAction DBE user-defined
- Eight digital I/O (expandable)
- One option slot for pluggable options
- 20 auxiliary print formats
- Time and date
- Audit trail tracking and alibi storage
- Peak hold
- Rate of change
- Accumulator
- Multi-range/interval
- Local/remote
- Two full duplex serial ports
- Header for fiber-optic, Ethernet or USB

Specifications

Power:
Line voltages: 100 to 240 VAC
Frequency: 50 to 60 Hz
DC voltages: 12 to 24 VDC

Power Consumption:
25 W

Excitation Voltage:
10 VDC (± 5 VDC), 16 × 350 ohm or
32 × 700 ohm load cells

Analog Signal Input Range:
-10 mV to +45 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum at 7.5 Hz
1.0 µV/graduation recommended

A/D Sample Rate:
7.5 to 960 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 1,000,000

System Linearity:
±0.01% full scale

Digital I/O:
Eight channels on CPU board;
optional 24-channel I/O

Communication Ports:
Two ports on CPU board support up to 115,200 bps
Port 2: Full duplex RS-232 with handshaking
Port 4: Full duplex RS-232, simplex 20 mA
Optional dual-channel serial expansion boards
Channel A: RS-232, RS-485, 20 mA
Channel B: RS-232, 20 mA

Display:
240 × 64 pixel, transflective LCD
Panel mount: 3.8 × 1.2 in (96 × 30 mm)
Universal: 5.3 × 1.5 in (133 × 39 mm)

Keys/Buttons:
Ten-key (panel mount) membrane panel
22-key (universal) membrane panel tactile feel

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
NEMA Type 4X/IP66
Stainless steel

Weight:
Universal enclosure: 9.5 lb (4.3 kg)
Panel Mount enclosure: 8.5 lb (3.9 kg)

Warranty:
Two-year limited

EMC Immunity:
3 V/m

Approvals:
NTEP CC 08-022, Class III/IIL 10,000 d
Measurement Canada AM-5677C
Class III/IIIHD 10,000d
CE Marked
UL/cUL Listed (universal)
UL/cUL Recognized (panel mount)



Panel Mount



CPU Enclosure

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Part Number/Price

Part #	Description	Est. Weight	Price
PCE Software			
101230 †	720i Universal, 115 VAC	12 lb	$2,045.00
103459 ††	720i Universal, 115 to 230 VAC, CE	12 lb	$2,045.00
107708*	720i Universal, 12 to 24 VDC	12 lb	$2,195.00
101229**	720i Panel Mount, 115 to 230 VAC	12 lb	$2,045.00
119116**	720i Panel Mount, 115 to 230 VAC, CE	12 lb	$2,045.00
107710*	720i Panel Mount, 12 to 24 VDC	12 lb	$2,195.00
Batch Software			
115447 †	720i Universal, 115 VAC	12 lb	$2,045.00
115448 ††	720i Universal, 115 to 230 VAC, CE	12 lb	$2,045.00
115449**	720i Panel Mount, 115 to 230 VAC	12 lb	$2,045.00

**DC/DC converter installed option, not UL approved*

***Power cord sold separately*



† US plug (NA) - Type B



†† Euro Plug - Type E

Options/Accessories

Part #	Description	Price
Option Cards		
67601	Digital I/O, 24-channel	$325.00
67602	Analog output: selectable 0-10 V, 0-20 mA	$395.00
67604	Serial, dual channel	$425.00
Network Cards		
77142	Ethernet TCP/IP Port (replaces serial port 2)	$545.00
71986	Ethernet TCP/IP module (installed in option slot)	$455.00
206272	Wi-Fi 802.11 A/B (replaces serial port 2)	$610.00
87803	EtherNet/IP™ interface	$895.00
68540	PROFIBUS® DP interface	$720.00
68541	DeviceNet® interface	$720.00
Hardware		
15436	Power cord for Panel Mount NEMA Type 5-15 plug	$18.00
105382	Power cord for Panel Mount CEE 7/7 plug	$18.00
19369	Start/stop switch box	$475.00
83569	Clear protective overlay (package of five)	$95.00
118975	Mount kit to convert Universal to Panel - non-NEMA rated	$245.00
101923	Remote relay box, does not include relay	$495.00
Manuals & Software		
103121	Installation manual	$25.00
Primary Component Parts		
106788	CPU board assembly with PCE firmware	$1,295.00
195388	CPU board assembly with batching firmware	$1,295.00
101244	LCD display (Panel Mount) transflective	$245.00
102888	LCD display (Universal) transflective	$245.00
101239	Display board (includes display for Panel Mount)	$595.00
102887	Display board (w/o display for Universal)	$495.00
67613	AC power supply 100 to 240 nominal, 25 watt	$225.00
132791	DC/DC power supply 12 to 24 VDC nominal, 25 watt	$235.00
101256	Switch membrane for Panel Mount	$145.00
101257	Switch membrane for Universal	$145.00

To have your option factory installed, please specify when placing your order.

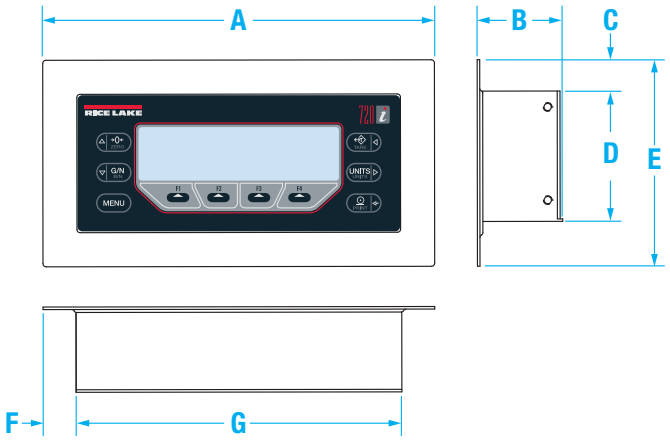
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720i™ Series

Programmable Digital Weight Indicator/Controller

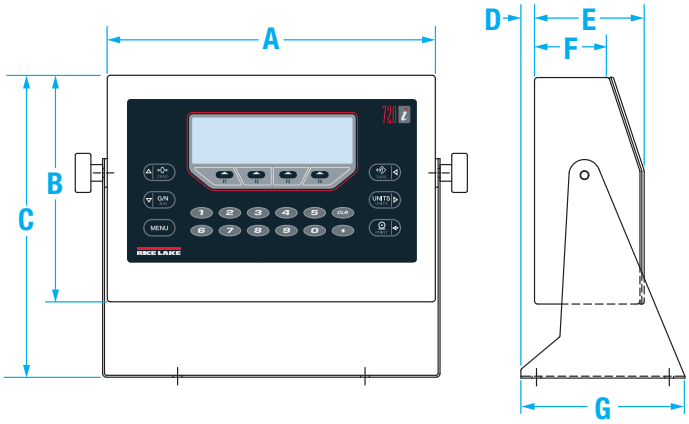
Dimensions

720i Panel Mount Display					
A	7.36 in (187 mm)	D	2.45 in (62 mm)	G	6.12 in (155 mm)
B	1.60 in (41 mm)	E	3.88 in (99 mm)		
C	0.59 in (15 mm)	F	0.62 in (16 mm)		
720i Panel Mount CPU Enclosure					
(L × W × H): 12.75 × 6.05 × 2.14 in (324 × 154 × 5 mm)					



Dimensions

720i Universal					
A	10.50 in (267 mm)	D	0.44 in (11 mm)	G	5.25 in (133 mm)
B	7.25 in (184 mm)	E	3.51 in (89 mm)		
C	9.66 in (245 mm)	F	2.31 in (59 mm)		



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880/880 Plus Performance™ Series

Programmable Digital Weight Indicator/Controller



880 Plus Universal



880 Panel Mount

Approvals

Measurement Canada Approved

Standard Features

- LED display
- USB device port connects directly to a PC
- Ethernet TCP/IP polled or continuous polled or continuous, server/client
- Built-in DIN-rail clips on controller box (panel mount)
- Display and controller can be separated up to 250 ft (panel mount)
- Hardware slot for one option card
- Operator functions through menu key for audit trail, preset tare, accumulator, time and date and setpoints
- Audit trail tracking for configuration and calibration changes. Password protection for user and configuration changes.
- 20 setpoints with latched batch engine or unlatched outputs
- Four onboard digital I/O channels
- Programmable ticket formats up to 1,000 characters for header text, gross, net, accumulator and setpoints
- Five-point linearization calibration
- Local/remote operation
- Multi-range or multi-interval weighing
- Filter settings for light, medium and heavy noise

Options

- Analog output
- Relay board
- Fieldbus connectivity
- Dual serial output (v4.00 and newer)
- 24-channel digital I/O (v4.00 and newer)
- Truck in/out program for 100 vehicle IDs
- Adapter plate for converting 310 and 520 panel mounts
- Panel mount kit for universal enclosure

Specifications

Power:
Line voltages: 100 to 240 VAC
Frequency: 50/60 Hz
DC voltages: 12 to 24 VDC

Power Consumption:
AC: 15 W, DC: 20 W

Excitation Voltage:
10 VDC (± 5 VDC), 16 × 350 ohm or
32 × 700 ohm load cells

Analog Signal Input Range:
-45 mV to 45 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum at 7.5 Hz;
1.0 µV/graduation recommended

A/D Sample Rate:
7.5 to 960 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 999,999

System Linearity:
± 0.01% full scale

Digital I/O:
Four I/O onboard, primary keys, pseudo functions, batching functions

(Optional) Analog Output:
Voltage output: 0–10 VDC
Load resistance: 1 k ohm minimum
Current output: 0–20 mA or 4–20 mA
External loop resistance: 500 W maximum

(Optional) Relay Board:
Four channel relay module, dry contact 3 A at 115 VAC, 3 A at 30 VDC

Communication Ports:
RS-232 full duplex or RS-485 half duplex;
USB micro A/B connector 2.0;
Ethernet TCP/IP

Annunciators:
Gross, net, center of zero, standstill, lb, kg, tare, preset tare, multi-range/interval 1/2/3

Display:
LED, 0.56 in (14 mm), six-digit, 14-segment with decimal or comma

Keys/Buttons:
Membrane panel, tactile feel

Dimensions:
(L × W × H)
Panel: 6.00 × 4.95 × 4.00 in (152 × 126 × 102 mm)
Universal: 9.87 × 4.00 × 9.38 in
(248 × 102 × 235 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
Panel display: stainless steel, NEMA Type 4X, Type 12 and IP69K
Panel mount controller: Aluminum
Universal: stainless steel, IP69K

Weight:
Panel: 2.5 lb (1.2 kg);
Universal: 6.5 lb (2.9 kg)

Warranty:
Two-year limited

EMC Immunity:
10 V/m

Approvals:
NTEP 13-080 Class III/IIIL, 10,000 d
Measurement Canada AM-5931C
OIML R76/2006-A-NL1-18.23 Class III, 10,000 d
EU Test Certificate TC8463
CE Marked
cULus Listed (universal)
cULus Recognized (panel mount)

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880/880 Plus Performance™ Series

Programmable Digital Weight Indicator/Controller

Part Number/Price

Part #	Description	Est. Weight	Price
880 Panel Mount AC Powered*			
177976	115 to 230 VAC, indicator	4 lb	$1,350.00
177979	115 to 230 VAC, with analog output	4 lb	$1,725.00
177980	115 to 230 VAC, with relay board	4 lb	$1,725.00
177982	115 to 230 VAC, with EtherNet/IP™, single port	4 lb	$2,000.00
177983	115 to 230 VAC, with PROFINET, single port	4 lb	$2,000.00
177984	115 to 230 VAC, with Modbus/TCP, single port	4 lb	$2,000.00
177985	115 to 230 VAC, with PROFIBUS® DP	4 lb	$2,000.00
177986	115 to 230 VAC, with DeviceNet®	4 lb	$2,000.00
179155	115 to 230 VAC, with EtherCAT	4 lb	$2,000.00
880 Panel Mount DC Powered*			
177987	12 to 24 VDC, indicator	4 lb	$1,450.00
880 Plus Universal AC Powered			
177989 †	115 VAC, indicator	8 lb	$1,600.00
178496 †	115 VAC, with analog output	8 lb	$1,950.00
178499 †	115 VAC, with relay board	8 lb	$1,950.00
179147 †	115 VAC, with EtherNet/IP, single port	8 lb	$2,225.00
179148 †	115 VAC, with PROFINET, single port	8 lb	$2,225.00
179149 †	115 VAC, with Modbus TCP, single port	8 lb	$2,225.00
179150 †	115 VAC, with PROFIBUS®	8 lb	$2,225.00
179152 †	115 VAC, with DeviceNet	8 lb	$2,225.00
179154 †	115 VAC, with EtherCAT	8 lb	$2,225.00
177990 ††	115 to 230 VAC, indicator	8 lb	$1,600.00
178497 ††	115 to 230 VAC, with analog output	8 lb	$1,950.00
178500 ††	115 to 230 VAC, with relay board	8 lb	$1,950.00
880 Plus Universal DC Powered			
178495	9 to 36 VDC, indicator	8 lb	$1,700.00

**Power cord not included*

Indicator part numbers contain the single port network card



† *US plug (NA) - Type B*



†† *Euro Plug - Type E*

Options/Accessories

Part #	Description	Price
Option Cards (5.5 in CPU only)		
179156	Analog output, 0 to 10 VDC, 0 to 20 mA, 4 to 20 mA	$375.00
179157	Relay board, four dry contact outputs	$350.00
197343**	Digital I/O, 24-channel TTL output	$325.00
197347**	Serial ports, dual-channel RS-232/RS-485	$375.00
Network Cards		
179158	EtherCAT interface	$600.00
179159	EtherNet/IP™ interface, single port	$600.00
179160	PROFINET interface, single port	$600.00
179161	Modbus TCP/IP interface, single port	$600.00
179162	DeviceNet® interface	$600.00
179163	PROFIBUS® DP interface	$600.00
205566	EtherNet/IP interface, dual port	$805.00
205567	PROFINET interface, dual port	$805.00
Hardware		
153660	Metrological sealing kit for panel mount	$20.00
158404	Adapter plate for IQ310 and 520 replacement	$75.00
177850	Mount kit, convert Universal to Panel, non-NEMA	$255.00
180835	Universal backplate with RJ-45 receptacle	$110.00
197724	Clear protective overlay for Universal (pack of 5)	$85.00
15436	Power cord for Panel Mount, US plug	$18.00
105382	Power cord for Panel Mount, Euro plug	$18.00
223864	Knob, stainless steel M6 x 1.0 in	$15.00

Options/Accessories

Part #	Description	Price
Cables		
152434	Cable, USB A to micro A shielded, 2 meters	$55.00
156817	Cable, Ethernet RJ45 connectors, 1 meter	$35.00
156806	Cable, USB A to A, 1 meter	$35.00
156809	Cable, USB A to B, 1 meter	$55.00
Manuals and Software		
152240	Operators manual	$25.00
158387	Technical manual	$25.00
Primary Component Parts		
131740	Overlay, Panel Mount, six-key	$69.00
163986	Overlay, Universal with numeric keypad	$69.00
131598	Display board	$240.00
175603*	Power supply, 100 to 240 VAC	$210.00
175604*	Power supply, 12 to 24 VDC	$315.00
175109*	CPU board	$575.00

** Design change in 2017 to 5.5in wide controller*

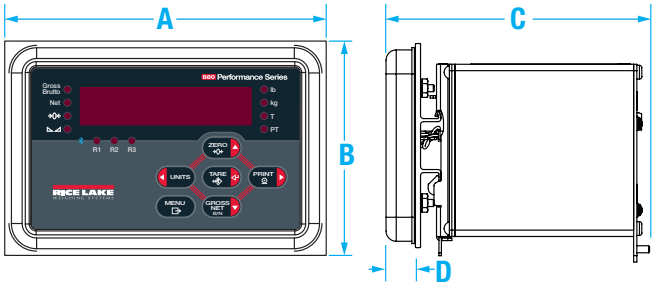
*** Requires version 4.0 firmware*

To have your option factory installed, please specify when placing your order.

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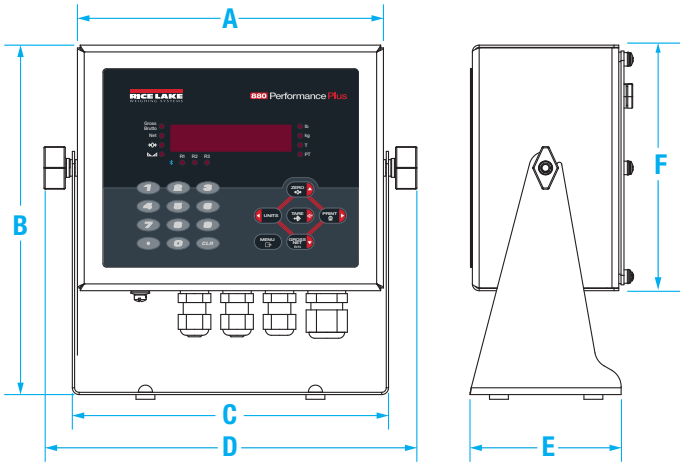
Dimensions

880 Panel Mount			
A	6.00 in (152 mm)	C	4.95 in (126 mm)
B	4.00 in (102 mm)	D	0.58 in (14 mm) Bezel Depth



Dimensions

880 Universal			
A	8.10 in (206 mm)	D	9.87 in (248 mm)
B	9.38 in (235 mm)	E	4.00 in (102 mm)
C	8.37 in (213 mm)	F	6.50 in (165 mm)



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Approvals

Measurement Canada Approved

EU LEGAL FOR TRADE CERTIFIED

Standard Features

- Customizable backlit LCD graphical user interface
- 22 softkeys with 10 user-defined keys
- Tactile keypad for scale operations, numeric entry and navigation
- On-screen keyboard available during entry mode (or external keyboard)
- Supports 28 scales within 5 different scale types:
  - Analog load cell, multi-range/interval weighing
  - Total scale summing
  - Serial input scales
  - iQUBE^2 scales
  - Program scales
- 2 to 14 option slots for additional scale channels, serial ports, digital inputs and outputs, analog outputs and protocol interfaces
- iRite™ Programming Software
  - Customizable user applications with event-based functions
  - 150 built-in functions for application processes and data tables
- Four serial ports supporting RS-232, RS-485, 20mA
- USB Type A and B replaces Serial on Port 2 (USB model)
- Alibi memory captures serial port transmissions
- Configurable data stream format
- 100 setpoints, 27 configurable setpoint types
- Six digital I/O for control
- Four different enclosure types: universal, deep universal, wall mount, panel mount

Specifications

Power:
AC voltages: 100 to 240 VAC
Frequency: 50/60 Hz
DC voltages: 12 to 24 VDC

Power Consumption:
AC: 25 W (universal) or 65 W (others)
DC: 25 W for all models

Excitation Voltage:
10 VDC (± 5 VDC)
16 × 350 ohm or 32 × 700 ohm load cells per A/D card

Analog Signal Input Range:
-45 mV to +45 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum at 7.5 Hz
1.0 µV/graduation recommended

A/D Sample Rate:
7.5 to 960 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 1,000,000

System Linearity:
± 0.01% full scale

Digital I/O:
Six I/O channels on CPU board;
Optional 24-channel I/O expansion boards

Communication Ports:
Four ports on CPU board support up to 115,200bps
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface or USB type A and B connectors
Port 3: Full duplex RS-232, 20mA
Port 4: Full duplex RS-232, 2-wire RS-485, 20mA
Optional dual-channel serial expansion boards
Channel A: RS-232, RS-485, 20 mA
Channel B: RS-232, 20 mA

Display:
(W × H)
4.6 × 3.4 in (116 × 86 mm),
320 × 240 pixel
LCD module with adjustable contrast
Transmissive display
Transflective display (optional)

Keys/Buttons:
27-key membrane panel, tactile feel,
PS/2 or USB port for external keyboard connection

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
NEMA Type 4X, Type 12, IP66
Stainless steel

Weight:
Universal enclosure: 9.5 lb (4.3 kg)
Wall mount enclosure: 23.0 lb (10.4 kg)
Panel mount enclosure: 8.5 lb (3.9 kg)
Deep universal: 11 lb (5.0 kg)

Warranty:
Two-year limited

EMC Immunity:
10 V/m

Approvals:
NTEP 01-088, Class III/IIIL 10,000 d
Measurement Canada AM-5426, Class III/III HD 10,000 d
OIML R76/2006-A-GB1-19.08
EU Test Certificate TC11584
cULus Listed (Universal, Deep Universal and Wall Mount)
cULus Recognized (Panel Mount)
cULus Listed 508A (Custom Wall Mount)
CE Marked

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920i® Series

Programmable Digital Weight Indicator





920i Universal Part Number/Price

Part #	Description	USB	Est. Weight	Price
Single-Channel				
67527 †	115 VAC		10 lb	$3,395.00
115003 †	115 VAC	USB	10 lb	$3,545.00
67615 †	230 VAC		10 lb	$3,395.00
120062 †	230 VAC	USB	10 lb	$3,545.00
69522 ††	230 VAC		10 lb	$3,395.00
120074 ††	230 VAC	USB	10 lb	$3,545.00
107713*	12 to 24 VDC, 25 watt		10 lb	$3,545.00
120080*	12 to 24 VDC, 25 watt	USB	10 lb	$3,695.00
Dual-Channel				
69767 †	115 VAC		10 lb	$3,545.00
120086 †	115 VAC	USB	10 lb	$3,695.00
69772 †	230 VAC		10 lb	$3,545.00
120090 †	230 VAC	USB	10 lb	$3,695.00
69774 ††	230 VAC		10 lb	$3,545.00
120096 ††	230 VAC	USB	10 lb	$3,695.00
No A/D Channel				
77790 †	115 VAC		10 lb	$3,195.00
120100 †	115 VAC	USB	10 lb	$3,345.00
77791 ††	230 VAC		10 lb	$3,195.00
120104 ††	230 VAC	USB	10 lb	$3,345.00

**DC/DC converter installed option, not UL approved*

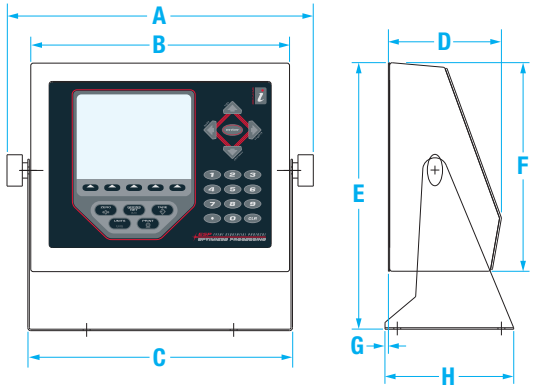
† *US plug (NA) - Type B* †† *Euro Plug - Type E*

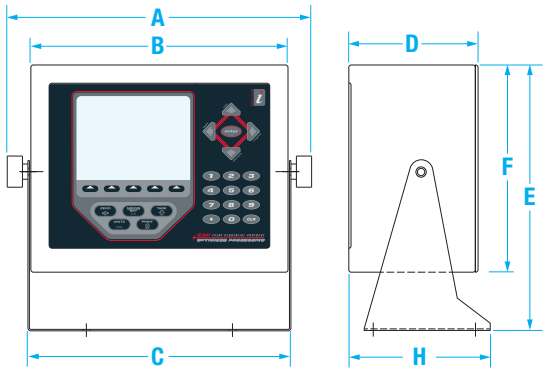
920i Deep Universal Part Number/Price

Part #	Description	USB	Est. Weight	Price
Single-Channel				
82455 †	115 VAC		12 lb	$3,695.00
115004 †	115 VAC	USB	12 lb	$3,795.00
82457 †	230 VAC		12 lb	$3,695.00
120064 †	230 VAC	USB	12 lb	$3,795.00
82459 ††	230 VAC		12 lb	$3,695.00
120075 ††	230 VAC	USB	12 lb	$3,795.00
107714*	12 to 24 VDC, 25 watt		12 lb	$3,795.00
120081*	12 to 24 VDC, 25 watt	USB	12 lb	$3,945.00
Dual-Channel				
82456 †	115 VAC		12 lb	$3,795.00
120087 †	115 VAC	USB	12 lb	$3,945.00
82458 †	230 VAC		12 lb	$3,795.00
120092 †	230 VAC	USB	12 lb	$3,945.00
82460 ††	230 VAC		12 lb	$3,795.00
120097 ††	230 VAC	USB	12 lb	$3,945.00
No A/D Channel				
93243 †	115 VAC		12 lb	$3,445.00
120101 †	115 VAC	USB	12 lb	$3,595.00
93244 ††	230 VAC		12 lb	$3,445.00
120105 ††	230 VAC	USB	12 lb	$3,595.00

**DC/DC converter installed option, not UL approved*

† *US plug (NA) - Type B* †† *Euro Plug - Type E*





Dimensions

920i Universal					
A	12.50 in (318 mm)	D	4.61 in (117 mm)	G	0.14 in (3.5 mm)
B	10.56 in (268 mm)	E	10.87 in (276 mm)	H	5.25 in (206 mm)
C	10.90 in (277 mm)	F	8.50 in (216 mm)		

Dimensions

920i Deep Universal					
A	12.50 in (318 mm)	D	5.36 in (136 mm)	F	8.50 in (216 mm)
B	10.76 in (273 mm)	E	10.87 in (276 mm)	H	5.88 in (149 mm)
C	10.90 in (277 mm)				

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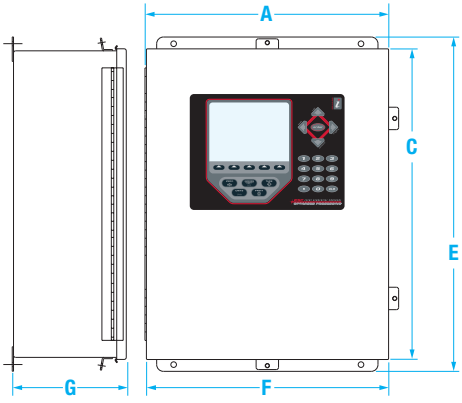


920i Wall Mount Part Number/Price

Part #	Description	USB	Est. Weight	Price
Single-Channel				
69763 †	115 VAC		23 lb	$4,295.00
115005 †	115 VAC	USB	23 lb	$4,395.00
69765 †	230 VAC		23 lb	$4,295.00
120066 †	230 VAC	USB	23 lb	$4,395.00
72133 ††	230 VAC		23 lb	$4,295.00
120078 ††	230 VAC	USB	23 lb	$4,395.00
107715*	12-24 VDC, 25 watt		23 lb	$4,395.00
120082*	12-24 VDC, 25 watt	USB	23 lb	$4,545.00
Dual-Channel				
69770 †	115 VAC		23 lb	$4,395.00
120088 †	115 VAC	USB	23 lb	$4,545.00
69776 †	230 VAC		23 lb	$4,395.00
120093 †	230 VAC	USB	23 lb	$4,545.00
72134 ††	230 VAC		23 lb	$4,395.00
120098 ††	230 VAC	USB	23 lb	$4,545.00
No A/D Channel				
77794 †	115 VAC		23 lb	$4,095.00
120102 †	115 VAC	USB	23 lb	$4,195.00
77795 ††	230 VAC		23 lb	$4,095.00
120106 ††	230 VAC	USB	23 lb	$4,195.00
153346	115 VAC with start/stop switches		23 lb	$4,445.00

**DC/DC converter installed option, not UL approved*

† *US plug (NA) - Type B* †† *Euro Plug - Type E*



Dimensions

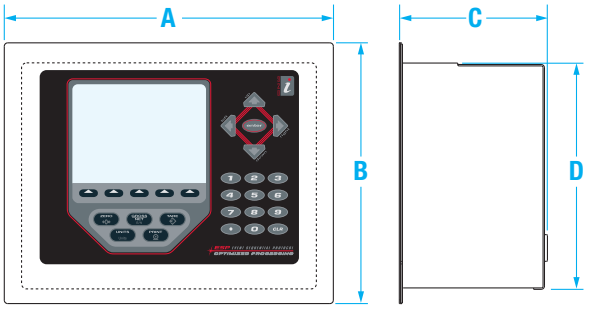
920i Wall Mount					
A	14.30 in (363 mm)	D	18.84 in (479 mm)	F	14.30 in (363 mm)
B	11.00 in (279 mm)	E	19.63 in (499 mm)	G	6.75 in (171 mm)
C	18.20 in (462 mm)				

920i Panel Mount Part Number/Price

Part #	Description	USB	Est. Weight	Price
Single-Channel				
69764 †	115 VAC		9 lb	$3,395.00
115006 †	115 VAC	USB	9 lb	$3,545.00
69766 †	230 VAC		9 lb	$3,395.00
120069 †	230 VAC	USB	9 lb	$3,545.00
72137 ††	230 VAC		9 lb	$3,395.00
120079 ††	230 VAC	USB	9 lb	$3,545.00
107716*	12-24 VDC, 25 watt		9 lb	$3,545.00
120083*	12-24 VDC, 25 watt	USB	9 lb	$3,695.00
Dual-Channel				
69771 †	115 VAC		9 lb	$3,545.00
120089 †	115 VAC	USB	9 lb	$3,695.00
69777 †	230 VAC		9 lb	$3,545.00
120095 †	230 VAC	USB	9 lb	$3,695.00
72138 ††	230 VAC		9 lb	$3,545.00
120099 ††	230 VAC	USB	9 lb	$3,695.00
No A/D Channel				
77792 †	115 VAC		9 lb	$3,195.00
120103 †	115 VAC	USB	9 lb	$3,345.00
77793 ††	230 VAC		9 lb	$3,195.00
120107 ††	230 VAC	USB	9 lb	$3,345.00

**DC/DC converter installed option, not UL approved*

† *US plug (NA) - Type B* †† *Euro Plug - Type E*



Dimensions

920i Panel Mount			
A	11.56 in (294 mm)	C	5.20 in (132 mm)
B	9.16 in (233 mm)	D	7.95 in (202 mm)

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920i® Series

Programmable Digital Weight Indicator

To have your option factory installed, please specify when placing your order.

Options/Accessories

Part #	Description	Price
Option Cards		
68532	A/D, single-channel	$395.00
68533	A/D, dual-channel	$525.00
67601	Digital I/O, 24-channel TTL output	$325.00
67602	Analog output: selectable 0-10 V, 0-20 mA	$395.00
103138	Analog output, dual-channel 0-10 V, 0-20 mA	$625.00
67604	Serial port card, dual-channel, RS-232 and RS-485	$425.00
87697	Analog input +/-10 VDC, 0-20 mA and thermocouple	$725.00
Network Cards		
65383	Ethernet thin server (external)	$397.00
71986	Ethernet TCP/IP 10/100 module (internal)	$455.00
206271	Wireless LAN module 802.11 b/g	$670.00
87803	EtherNet/IP™ interface	$895.00
68540	PROFIBUS® DP interface	$720.00
187816	PROFINET IO interface	$895.00
68541	DeviceNet® interface	$720.00
103136	ControlNet® interface	$1,080.00
Expansion Cards		
69782	Two-slot expansion board (wall mount)	$395.00
71743	Two-slot expansion board (panel mount and deep universal)	$395.00
180047	Two-slot expansion board (panel mount, DC powered)	$395.00
179488	Two-slot expansion board (wall mount DC powered)	$395.00
69783	Six-slot expansion board (wall mount)	$495.00
Hardware		
83569	Clear protective overlay (package of 5)	$95.00
70056	Cable, DB9M to DB9F, Straight Cable	$40.00
77788	Fiber optic board, installed in 920i	$235.00
92777	Filter, PreVent™ vent kit PG 7 cord grip	$35.00
19368	Start/stop controls without box, for use on wall mount	$475.00
19369	Start/stop switch with FRP box	$475.00
93359	Keyboard, QWERTY PS/2 connector	$165.00
Manuals and Software		
69781	iRev™ scale software	$95.00
72809	Interchange® database software	$325.00
67887	Additional installation manual	$55.00
67888	Additional programming reference	$55.00

Primary Component Parts

Part #	Description	Price
Boards		
186272*	CPU board assembly for LED backlight, (blue color)	$1,725.00
186273*	Display board, LED back light, transmissive	$395.00
186274*	Display board, LED back light, transflective	$395.00
206696*	Display kit (186273) and retrofit cable (207045)	$425.00
Power Supply		
67613	AC power supply, 25 watt for universal	$225.00
71333	AC power supply, 65 watt for deep, panel and wall mount	$295.00
132791	Power supply 12 to 24 VDC, 25 watt	$235.00
Membrane		
66502	Switch panel membrane	$125.00

****Design change in 2018 to LED backlight display.*
CCFL backlight displays are no longer available.

The LED backlight display can be used with green CPU board Rev N or older by replacing the power supply cable, see Tech Bulletin PN 189640 for compatibility details. There is a generic retrofit PN 207045 for the existing power supply cable or a new power supply cable can be installed. Universal 186464 (AC) 186464 (DC); Deep universal 186278 (AC) 187603 (DC); Panel 186278 (AC) 187603 (DC); Wall 186760 (AC) 188345 (DC); Two-slot expansion for wall 188716 (AC) 189424 (DC); Two-slot expansion panel for deep universal 188717 (AC) 189425 (DC); Six-slot expansion for wall 188774 (AC).

Miscellaneous Parts

Part #	Description	Price
Cables for Digital I/O		
70780	50-pin flat ribbon, 24 in	$95.00
93577	50-pin flat ribbon, 31 in	$75.00
94384	50-pin flat ribbon, 50 in	$95.00
70779	50-pin round ribbon with cord grip, 60 in	$195.00
72442	50-pin round ribbon without cord grip, 60 in	$195.00

Cables and Receptacles

Part #	Connector Type		Length	Price
USB Cables *(Connector is a male plug)*				
79074	**A** UNSEALED	**B** UNSEALED	2 m	$35.00
124700	**A** SEALED	**B** SEALED	3 m	$125.00
126477	**A** SEALED	**A** UNSEALED	3 m	$545.00
124701	**A** SEALED	**B** UNSEALED	3 m	$745.00
124702	**B** SEALED	**A** UNSEALED	3 m	$675.00
USB Receptacles *(Receptacle is a socket)*				
126476*	**A** SEALED	**A** UNSEALED	0.5 m	$125.00
124703*	**A** SEALED	**B** UNSEALED	0.5 m	$125.00
124704*	**B** SEALED	**B** UNSEALED	0.5 m	$125.00
125998*	**A** SEALED	**FIVE-PIN** Internal to 920i	0.28 m	$125.00
125999*	**B** SEALED	**FIVE-PIN** Internal to 920i	0.28 m	$125.00
Ethernet Cables				
124706	RJ-45 SEALED	RJ-45 SEALED	3 m	$625.00
124707	RJ-45 SEALED	RJ-45 UNSEALED	2 m	$125.00
Ethernet Receptacles *(Receptacle is a socket)*				
176789*	RJ-45 SEALED		0.75 m	$145.00
172734*	RJ-45 SEALED		0.5 m	$90.00
126353*	RJ-45 SEALED		0.28 m	$125.00
Cable and Receptacle Accessories				
124695	Panel plug 1.125 in diameter			$15.00
124694	Cover for sealed receptacles			$25.00
124689	Cover for flash driver mounts on sealed receptacle			$45.00
195607	USB Flash Drive 8GB			$9.00

**These options require a milled back plate*

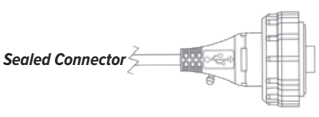
Unsealed Connectors



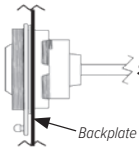
Type B



Type A



Sealed Connector



Sealed Receptacle

Backplate

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1280 Enterprise™ Series

Programmable Digital Weight Indicator



Approvals

Measurement Canada Approved

Standard Features

- Customizable color touchscreen with graphical user interface
- User-defined softkeys, icons and graphics
- Tactile keypad for scale operations, numeric entry and navigation
- On-screen keyboard available during entry mode (or external keyboard)
- Built-in web server for remote access, systems integration and data monitoring
- Multi-language operation and text entry
- Supports eight scales within five different kinds:
  - Analog load cell, multi-range/interval weighing
  - Total scale summing
  - Serial input scales
  - iQUBE^3 and iQUBE^2 scales
  - Program scales
- Six smart card slots for additional scale channels, serial ports, digital inputs and outputs, analog outputs and protocol interfaces
- iRite™ Programming Software
  - Five built-in applications: Truck In/Out, recipe storage, filling/dosing, counting, checkweighing
  - Customizable user programs with event-based functions
  - 150 built-in functions for common processes and data tables
  - Customize and transfer data via email, FTP server and networked printers
  - Display data with line charts or bar graphs
  - iRite reporting of iQUBE alerts
- Email, USB, Ethernet TCP/IP, Wi-Fi Direct®, two serial ports RS-232 or RS-485
- Alibi memory captures serial port transmissions
- Four configurable data-stream formats for PC, printers and remote displays
- 100 setpoints, 18 configurable setpoint types
- Eight digital I/O for control and pulse count
- Three different enclosure types: universal with tilt stand, panel mount and wall mount

Specifications

Power:
AC voltages: 100 to 240 VAC; 50/60 Hz
DC voltages: 11 to 30 VDC

Power Consumption:
60 W

Excitation Voltage:
10 VDC (± 5 VDC)
16 × 350 ohm or 32 × 700 ohm load cells per A/D card

Analog Signal Input Range:
-60 mV to 60 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum at 7.5 Hz to 120 Hz
1.0 µV/graduation recommended

A/D Sample Rate:
7.5 to 960 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 1,000,000

System Linearity
± 0.01% full scale

Digital I/O:
Eight I/O channels on CPU board
Optional 24-channel I/O expansion boards

Communication Ports:
Port 1 & 2: Full duplex RS-232 with CTS/RTS, RS-422/485
Baud rate: 1200 to 115200
Port 3: USB 2.0 Device (Micro)
USB host: (2) Type A connectors max 500 mA
Ethernet: Wired 10/100 Auto-MDX
Ethernet: Wireless 802.11 b/g/n 2.4GHz

Onboard:
Selectable filters: Three stage, Adaptive or Damping
Embedded Linux® OS
8 GB eMMC (system use)
1 GB DDR3 RAM
460 MB onboard database (SQLite) storage
Up to 32 GB micro SD card (sold separately)

Display:
Seven-inch, 800 × 480 pixel, 500 or 1,000 NIT
Twelve-inch, 1280 × 800 pixel, 1,500 NIT

Keys/Buttons:
22-key membrane panel, tactile buttons, on-screen keyboard for text and numeric entry, USB port for flash drive, keyboard and printer

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -4 °F to 131 °F (-20 °C to 55 °C)

Rating/Material:
Universal: IP69K
Wall Mount: IP66
Panel Mount: IP69K, NEMA Type 4X and 12
Stainless steel 304 enclosure

Weight:
Universal enclosure: 11 lb (4.9 kg)
Panel mount enclosure: 8 lb (3.6 kg)
Wall mount enclosure: 23 lb (10.4 kg)
Panel mount 7 in touch-only: 7 lb (3.1 kg)
Panel mount 12 in touch-only: 10 lb (4.5 kg)

Warranty:
Two-year limited

EMC Immunity:
10 V/m

Approvals:
NTEP 15-001/Class III/IIIL 10,000 d
Measurement Canada AM-5980C, Class III/III HD 10,000 d
OIML R76/2006-A-NL1-19.23 Class III/IIII 10,000 d
OIML R61-1/2017 TC8596
cULus Listed (Universal, Wall Mount)
cULus Recognized (Panel Mount)
CE Marked

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1280 Enterprise™ Series

Programmable Digital Weight Indicator



7-inch model with keypad

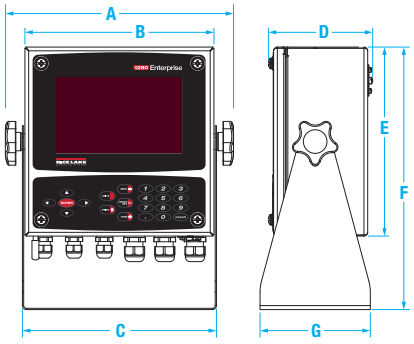


7-inch touch-only model

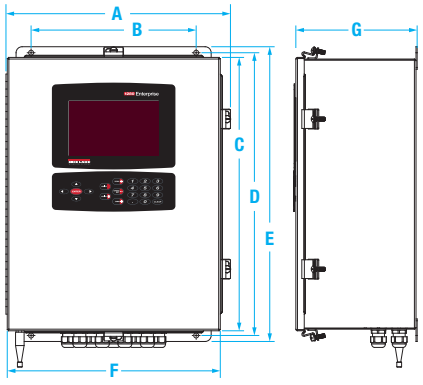


12-inch touch-only model

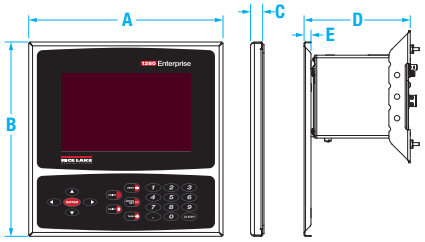
Numeric Keypad Models:



1280-2



1280-3



1280-4

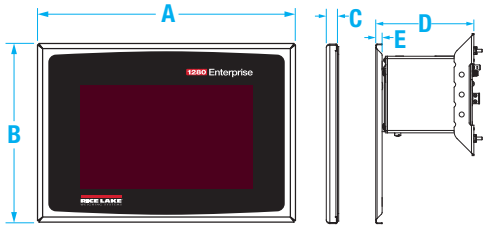
Dimensions

Universal (1280-2)			
A	10.86 in (276 mm)	E	9.00 in (229 mm)
B	9.00 in (229 mm)	F	12.50 in (318 mm)
C	9.24 in (235 mm)	G	5.25 in (133 mm)
D	4.97 in (126 mm)		

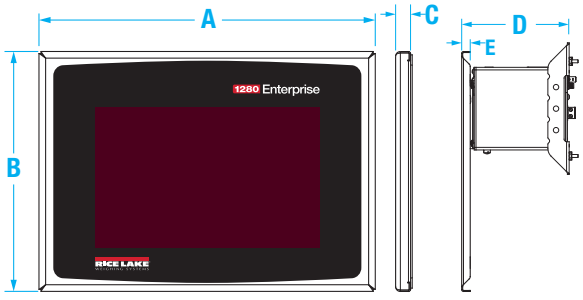
Wall Mount (1280-3)			
A	14.92 in (379 mm)	E	19.64 in (499 mm)
B	11.00 in (279 mm)	F	14.20 in (361 mm)
C	18.22 in (463 mm)	G	8.08 in (205 mm)
D	18.84 in (479 mm)		

Panel Mount (1280-4)			
A	9.00 in (229 mm)	D	5.34 in (136 mm)
B	9.00 in (229 mm)	E	0.32 in (8 mm)
C	0.58 in (15 mm)		

Touch-only Models:



1280-5



1280-6

Dimensions

7-inch Touch-only (1280-5)			
A	9.00 in (229 mm)	D	5.34 in (136 mm)
B	6.22 in (158 mm)	E	0.32 in (8 mm)
C	0.58 in (15 mm)		

12-inch Touch-only (1280-6)			
A	14.00 in (356 mm)	D	5.34 in (136 mm)
B	10.00 in (254 mm)	E	0.32 in (8 mm)
C	0.58 in (15 mm)		

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Part Number/Price

Part #	Description	Power	Display	Option Installed	Price
Universal Enclosure with 500 NIT Display (1280-2)					
171427 †	1280 Universal	115 VAC	500 NIT	Single Scale Card	$3,850.00
171441 ††	1280 Universal	100 to 240 VAC	500 NIT	Single Scale Card	$3,850.00
171662 †	1280 Universal	115 VAC	500 NIT	Dual Scale Card	$4,050.00
172188 ††	1280 Universal	100 to 240 VAC	500 NIT	Dual Scale Card	$4,150.00
Panel Mount Enclosure with 500 NIT Display (1280-4)					
171663	1280 Panel Mount	100 to 240 VAC	500 NIT	Single Scale Card	$3,725.00
172186	1280 Panel Mount	100 to 240 VAC	500 NIT	Dual Scale Card	$3,950.00
Wall Mount Enclosure with 500 NIT Display (1280-3)					
173673 †	1280 Wall Mount	115 VAC	500 NIT	Single Scale Card	$4,250.00
174143 ††	1280 Wall Mount	100 to 240 VAC	500 NIT	Single Scale Card	$4,250.00
174144 †	1280 Wall Mount	115 VAC	500 NIT	Dual Scale Card	$4,550.00
174145 ††	1280 Wall Mount	100 to 240 VAC	500 NIT	Dual Scale Card	$4,550.00
Wall Mount Enclosure with 1000 NIT Display (1280-3)					
172184 †	1280 Wall Mount	115 VAC	1,000 NIT	Single Scale Card	$4,350.00
172185 ††	1280 Wall Mount	100 to 240 VAC	1,000 NIT	Single Scale Card	$4,350.00
206563 †	1280 Wall Mount	115 VAC	1,000 NIT	Dual Scale Card	$4,550.00
172187 ††	1280 Wall Mount	100 to 240 VAC	1,000 NIT	Dual Scale Card	$4,650.00
Touch-only 7 inch with 500 NIT Display (1280-5)					
186618	1280 Touch-only 7 in	100 to 240 VAC	500 NIT	Single Scale Card	$3,750.00
Touch-only 12 inch with 1500 NIT Display (1280-6)					
186465	1280 Touch-only 12 in	100 to 240 VAC	1,500 NIT	Single Scale Card	$4,375.00


† *US plug (NA) - Type B*


†† *Euro Plug - Type E*


(Brazil) - Type N


††† *BS1363 (UK) - Type G*


†††† *AS 3112 (Australian) - Type I*

Model Reference Chart

Choose any options to best fit your application and we customize

ENCLOSURE TYPE
- 1 Universal (1280-2)
- 2 Panel (1280-4)
- 3 Wall (1280-3)
- 4 Touch-only Panel 7 in (1280-5)
- 5 Touch-only Panel 12 in (1280-6)

POWER TYPE
- 1 AC
- 2 DC

DISPLAY TYPE
- 1 500 NIT 7 in Universal
- 2 1000 NIT 7 in Universal
- 3 500 NIT 7 in Panel/Wall
- 4 1000 NIT 7 in Panel/Wall
- 5 1500 NIT 12 in Panel

CORD TYPE
- 1 US Plug Universal
- 2 Brazil Plug Universal
- 3 Euro Plug Universal
- 4 US Plug Wall
- 5 Euro Plug Wall
- 6 Brazil Plug Wall
- 7 UK Plug Universal
- 8 AU/NZ Plug Universal
- 9 UK Plug Wall
- 10 AU/NZ Plug Wall

OPTION CARDS *ALL SLOTS MUST BE FILLED*
- A Blank *If no option, controller will need 6 blanks*
- B Single A/D Scale
- C Dual A/D Scale
- D 24 Channel Digital I/0
- E Dual Serial Channel
- F 4-dry Contact Relay
- G Single Analog Out
- H Dual Analog Out
- I Analog Out
- J EtherNet/IP™
- K DeviceNet®
- L PROFINET
- M Modbus TCP
- N PROFIBUS® DP
- O EtherCat®
- P PowerLink

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1280 Enterprise™ Series

Programmable Digital Weight Indicator

Single A/D Scale



Excitation Voltage:
10 VDC bipolar, 4 or 6 wire sensing
16 × 350 ohms per channel
Analog Input Signal:
- 10 to + 40 mV

Part #	Description	Price
220026	Single scale A/D	$475.00
166957	A/D sealing kit	$15.00

Dual A/D Scale



Excitation Voltage:
10 VDC bipolar, 4 or 6 wire sensing
8 × 350 ohms per channel
Analog Input Signal:
- 10 to + 40 mV

Part #	Description	Price
220027	Dual scale A/D	$675.00
166957	A/D sealing kit	$15.00

Digital I/O



24 channels, configurable as inputs or outputs
Inputs: 5 VDC max, active low; Outputs: 20 mA max per channel, active low; 5 VDC source available: 500 mA max

Part #	Description	Price
164684*	Digital I/O	$350.00
170008	DIO adapter, includes 60 pin flat ribbon cable, 24 in	$130.00
170009	DIO adapter, includes 60 pin round cable, 60 in	$225.00
170736	DIO adapter, includes 60 pin cable and cord grip, 60 in	$155.00

** 24 I/O ribbon cable required.*

Dual Serial Channel



Two-channel, full duplex RS-232 with CTS/RTS, RS-485 or RS-422, 1200 to 115200 baud

Part #	Description	Price
164685	Dual serial channel	$425.00

Single Analog Out



16 bit, voltage output 0 to 10 VDC, current output 0 to 20 mA, 4 to 20 mA

Part #	Description	Price
165366	Single analog out	$375.00

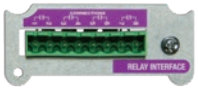
Dual Analog Out



16 bit, voltage output 0 to 10 VDC, current output 0 to 20 mA, 4 to 20 mA

Part #	Description	Price
164686	Dual analog out	$550.00

Relay Card



Relay four-dry contact, max current 3 A @ 30 VDC, 3 A @ 250 VAC

Part #	Description	Price
164689	Relay card	$425.00

Analog Input



Analog Input Signal:
± 10 VDC, ± 100 mV, 0 to 20 mA

Part #	Description	Price
164687	Dual analog input	$650.00

Data Exchange with PLC/DCS Systems

EtherNet/IP™



Part #	Description	Price
165792	EtherNet/IP, single port	$620.00
208129	EtherNet/IP, dual port	$805.00

DeviceNet®



Part #	Description	Price
165793	DeviceNet	$620.00

PROFINET



Part #	Description	Price
165794	PROFINET	$620.00

Modbus TCP



Part #	Description	Price
165796	Modbus TCP	$620.00

PROFIBUS® DP



Part #	Description	Price
165795	PROFIBUS DP	$620.00

EtherCAT®



Part #	Description	Price
179533	EtherCAT	$620.00

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Options/Accessories

To have your option factory installed, please specify when placing your order.

Part #	Description	Price
Manuals and Software		
167659	Technical Manual	$35.00
72809	Interchange database software	$325.00
164939	8 GB Micro SD card with SD and USB adapter	$25.00
195607	USB flash drive, 1 GB	$9.00
Extended Display Cable Length for Touch Only Models		
182600	Display cable for 7 in (500 NIT) touch-only, 5 ft length	$130.00
182601	Display cable for 7 in (500 NIT) touch-only, 10 ft length	$160.00
187489	Display cable for 7 in (1,000 NIT) touch-only, 10 ft length	$160.00
180027	Display cable for 12 in touch-only, 5 ft length	$160.00
180028	Display cable for 12 in touch-only, 10 ft length	$160.00
Extended Touch Cable Length for Touch Only Models		
180744	Touch cable for touch-only, 5 ft length	$105.00
180745	Touch cable for touch-only, 10 ft length	$105.00

Primary Component Parts

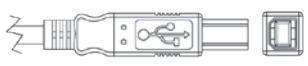
Part #	Description	Price
Displays		
163400	7 in 500 NIT display	$350.00
163399	7 in 1,000 NIT display	$450.00
182992	12 in 1,500 NIT display	$995.00
Boards		
179992	1280 main CPU board with fan plate	$1,100.00
199157	1280, CPU AC power, extruded aluminum enclosure (replacement)	$1,500.00
Power Supplies		
202512	AC power supply board	$180.00
202514	DC power supply board	$180.00
Overlays		
164121	Keypad, for panel and wall mount	$75.00
164120	Touchscreen, for panel and wall mount	$130.00
161731	Keypad, for universal	$75.00
161730	Touchscreen, for universal	$145.00
178498	Touchscreen, for 7 in touch-only panel mount	$295.00
176126	Touchscreen, for 12 in touch-only panel mount	$400.00
178161	Clear protective overlay display for 7 in display (pack of 5)	$63.00
178163	Clear protective overlay keypad for 7 in display (pack of 5)	$63.00

Cables and Receptacles

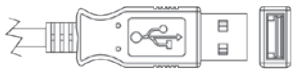
To have your option factory installed, please specify when placing your order.

Part #	Connector Type		Length	Price
USB Cables *(Connector is a male plug)*				
79074	**A** UNSEALED	**B** UNSEALED	2 m	$35.00
124700	**A** SEALED	**B** SEALED	3 m	$125.00
126477	**A** SEALED	**A** UNSEALED	3 m	$545.00
124701	**A** SEALED	**B** UNSEALED	3 m	$745.00
124702	**B** SEALED	**A** UNSEALED	3 m	$675.00
152434	**A** UNSEALED	**Micro A** UNSEALED	2 m	$55.00
USB Receptacles *(Receptacle is a socket)*				
176790 Panel Mount	**A** SEALED	**A** UNSEALED	0.75 m	$105.00
126476 Wall Mount	**A** SEALED	**A** UNSEALED	0.5 m	$125.00
172735 Universal	**A** SEALED	**A** UNSEALED	0.25 m	$90.00
Ethernet Cables				
72697	RJ-45 UNSEALED	RJ-45 UNSEALED	2 m	$40.00
124706	RJ-45 SEALED	RJ-45 SEALED	3 m	$625.00
124707	RJ-45 SEALED	RJ-45 UNSEALED	2 m	$125.00
Ethernet Receptacles *(Receptacle is a socket)*				
176789	RJ-45 SEALED		0.75 m	$145.00
172734	RJ-45 SEALED		0.5 m	$90.00
126353	RJ-45 SEALED		0.25 m	$125.00
Cable and Receptacle Accessories				
124694	Cover for sealed receptacles			$25.00
124689	Cover for flash driver mounts on sealed receptacle			$45.00

Unsealed Connectors

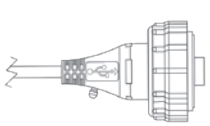


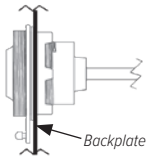
Type B



Type A

Sealed Connector





Sealed Receptacle

INDICATORS / CONTROLLERS

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Relays and Racks

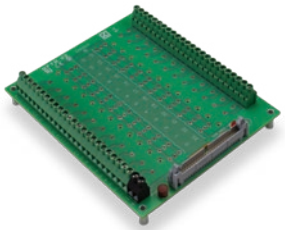
Input/Output Components



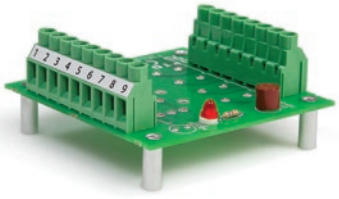
PN 45408
(6.10 × 1.20 in)



PN 33206
(10.00 × 3.25 × 2.32 in)



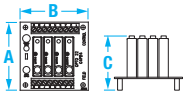
PN 33205
(7.50 × 6.25 × 2.32 in)



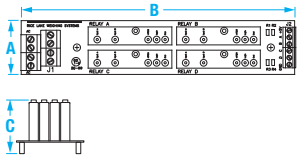
PN 15973
(3.25 × 3.25 × 2.32 in)

Relay Racks

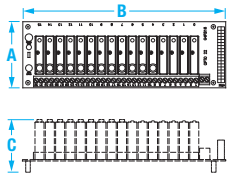
OPTO 22 4-Channel						
15973	Four-channel relay rack					$125.00
Dimensions						
A	3.25 in (83 mm)	B	3.25 in (83 mm)	C	2.32 in (59 mm)	



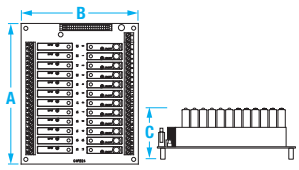
OPTO 22 4-Channel						
45408	Four-channel relay rack (non UL)					$160.00
Dimensions						
A	1.20 in (30 mm)	B	6.11 in (155 mm)	C	2.32 in (59 mm)	



OPTO 22 16-Channel						
33206	16-channel relay rack, ribbon cable connection					$395.00
Dimensions						
A	3.25 in (83 mm)	B	10.0 in (254mm)	C	2.32 in (59 mm)	



OPTO 22 24-Channel						
33205	24-channel relay rack, ribbon cable connection					$372.00
Dimensions						
A	7.50 in (83 mm)	B	6.25 in (83 mm)	C	2.32 in (59 mm)	



Part Number/Price

Part #	Description	Price
Input/Output Component		
43942	Allen-Bradley® multi-function relay with digital display	$575.00
29616	Dayton multi-function relay	$325.00
Other Relays		
15952	Eight-pin octal relay, AC/DC output, 10 A, 120 VAC coil	$57.00
15960	Eight-pin octal relay, AC/DC output, 10 A, 6 VDC coil	$30.00
15961	Eight-pin octal socket	$21.00
70780	Cable, 50-pin flat ribbon for digital I/O, 24 in	$95.00
70779	Cable, 50-pin round ribbon for digital I/O with cord grip, 60 in	$195.00
72442	Cable, 50-pin round ribbon for digital I/O without cord grip, 60 in	$195.00
93577	Cable, 50-pin flat ribbon for digital I/O, 31 in	$75.00
94384	Cable, 50-pin flat ribbon for digital I/O, 50 in	$95.00

Relays

Part #	Voltage	Description	Price
OPTO 22 1-Channel Input Relay			
15972	90 to 140 VAC	G4IAC5-L (N/O), yellow	$50.00
36631	180 to 280 VAC/VDC	G4IAC5A (N/O), yellow	$52.00
15969	10 to 32 VDC	G4IDC5 (N/O), white	$50.00
OPTO 22 1-Channel Output Relay			
15971	115 VAC	G4OAC5 (N/O), black	$50.00
22847	115/230 VAC	G4OAC5A5 (N/C), black	$67.00
36632	115/230 VAC	G4OAC5A (N/O), black	$52.00
15970	100 VDC	G4ODC5R, (N/O) dry contact, red	$50.00
121345	60 VDC	G4ODC5, (N/O), red	$50.00
22848	100 VDC	G4ODC5R5, (N/C) dry contact, red	$77.00
Relay Boards Fixed Dry Contact Relay			
30549	2-channel 120 to 240 VAC or 30 VDC/5 A		$175.00
15959	4-channel 120 to 240 VAC or 30 VDC/5 A		$305.00
29615	Board, relay mounting 1-channel (requires DIN rail for mounting (non UL)		$105.00
33207	Board, relay mounting 8-channel		$200.00

Miscellaneous Parts

Part #	Description	Price
Cables for Digital I/O		
70780	50-pin flat ribbon, 24 in	$95.00
93577	50-pin flat ribbon, 31 in	$75.00
94384	50-pin flat ribbon, 50 in	$95.00
70779	50-pin round ribbon with cord grip, 60 in	$195.00
72442	50-pin round ribbon without cord grip, 60 in	$195.00
170008	60-pin flat ribbon with 50-pin adapter, 24 in	$130.00
170009	60-pin round with 50-pin adapter, 60 in	$225.00
170736	60-pin round with 50-pin adapter and cord grip, 60 in	$155.00
Opto 22 Misc.		
26834	Fuse, 1A 250V (for PN 15970 and PN 22848)	$12.00
21735	Fuse, 4A 250V (for PN 15971, PN 22847 and PN 36632)	$26.00
16478	Quencharc® arc suppressor	$11.00
101923	FRP enclosure with Opto four-channel rack	$495.00
99032	Adapter plate, for four-channel Opto rack 33490	$5.25
155253	Board assembly, DWM IV, eight-channel, Opto 22 G4 series compatible, (non UL)	$245.00

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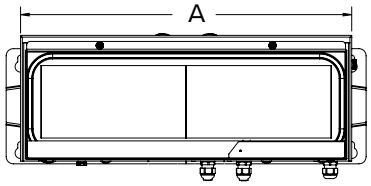


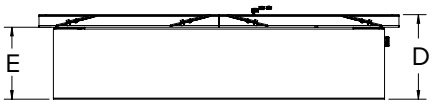
Approvals

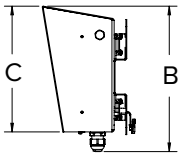
Measurement Canada Approved

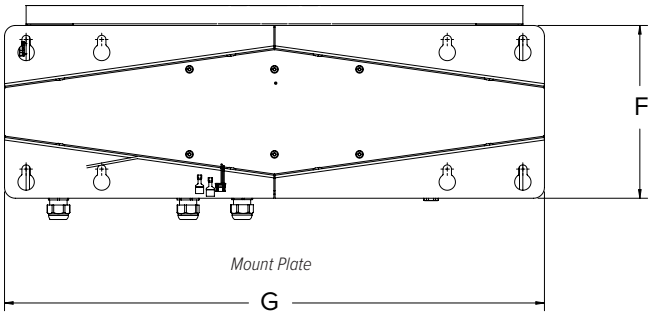
Dimensions

LaserLight3			
A	23.00 in (584 mm)	E	5.00 in (127 mm)
B	10.10 in (256 mm)	F	8.00 in (203 mm)
C	8.73 in (222 mm)	G	25.02 in (636 mm)
D	5.87 in (149 mm)		









Standard Features

- Color display
- Displays six high-intensity digits up to 5 in height
- Adjustable daylight/night intensity
- Mirror mode (reverse image) function
- Durable weather tight enclosure with flip-down door
- Flat-wall mounted or add VESA or offset mount

Options

- Wireless LAN, Wi-Fi interface 802.11 a/b
- Wireless interface, pair of ConnexLink™ radios and mount
- Pole mount kit, VESA flat wall for 2 to 6 inch pole (W × H) 200 × 100 mm, six fasteners (M4 x 8 mm)
- Sunshade visor, 8-inch painted steel

Specifications

Power:
AC voltages: 100 to 240 VAC; 50/60 Hz

Power Consumption:
120 watt (120 VAC)

Excitation Voltage:
5 VDC, 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:
-5 mV to +70 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum
1 µV/graduation recommended

A/D Sample Rate:
6.25 to 120 Hz, software selectable

Resolution:
Internal: 8,000,000 counts
Display: 1,000,000

System Linearity:
Within 0.01% full scale

Output Interface:
Ethernet TCP/IP, independently configurable echo port

Input Data Format:
Baud rate: 1200, 2400, 4800, 9600, 19200, 38400, 57600 and 115200 self-learning or configurable

Update:
Continuous or out-of-motion modes
Message interrupt mode

Digital I/O:
Four I/O read or set
5 V logic

Communication Ports:
Two full-duplex RS-232
RS-485/422 (two-wire or four-wire)
Micro USB (device)
Ethernet TCP/IP (10/100)
Wi-Fi

Display:
Bright, outdoor color LED lamps
128 × 32-pixel, 4 mm pitch
Decimal or comma indication
Weight display with units and mode
Message display
1, 2 or 4 lines

Maximum Viewing Distance:
4-inch character 100 ft (30 m)
5-inch character: 150 ft (46 m)

Viewing Angle:
160°

Character Format:
7 or 8 data bits; even, odd, or no parity; 1 or 2 stop bits

Keys/Buttons:
Zero, Gross/Net, Tare, Units, Print, Menu

Time:
Software enable, 12 or 24 hour format

Date:
Software enable, US or ISO format

Temperature:
Operating:
-40 °F to 120 °F (-40 °C to 49 °C)

Rating/Material:
IP66
Mild steel, powder-coated

Warranty:
Two-year limited

Approvals:
NTEP 22-096
Measurement Canada AM-6210C

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LaserLight3™

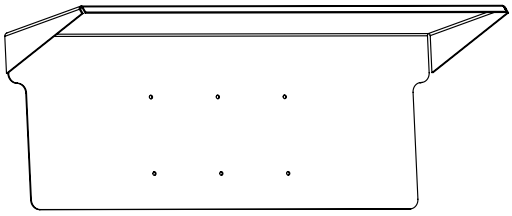
Color Large-display Weight Indicator

Part Number/Price

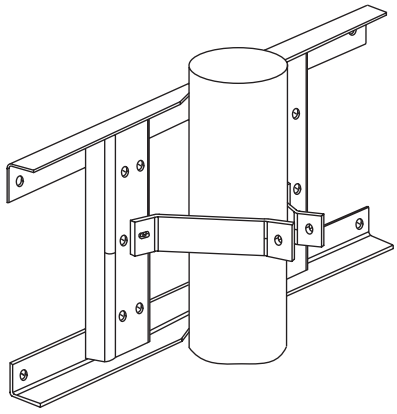
Part #	Description	Est. Weight	Price
205780	LaserLight3 large-display weight indicator	20 lb	$2,495.00

Options/Accessories

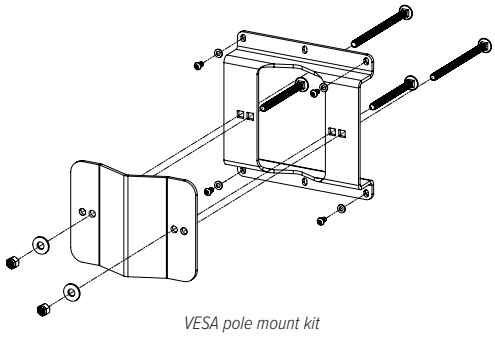
Part #	Description	Price
212745	Pole mount kit, VESA flat-wall, 200 mm W x 100 mm H, 6 fasteners (M4 x 8 mm) for 2-6 inch pole	$100.00
75856	Pole mount kit, 4-in flange style (24-in wide frame use with 4-8 in dia. pole)	$280.00
208807	Sunshade, 8-in	$135.00
209118	Wireless LAN, RS-232/Wi-Fi interface 802.11 a/b XPico module	$250.00
212753	Wireless interface, pair of ConnexLink radios transceiver kit and mount	$835.00



Sunshade
PN 208807



Flange pole mount kit
PN 75856



VESA pole mount kit
PN 212745

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LaserLT-60 and LaserLT-100

Large-display Digital Weight Indicators



LaserLT-60



LaserLT-100

Approvals

Measurement Canada Approved

Part Number/Price

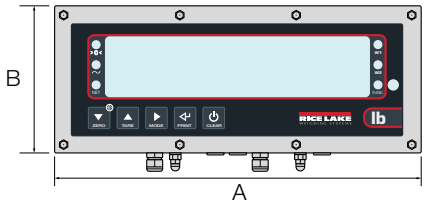
Part #	Description	Price
197453	LaserLT-60, indicator with weighing functionality 2.4 in (60 mm) LED	$1,380.00
197454	LaserLT-100, indicator with weighing functionality 4.0 in (100 mm) LED	$1,765.00

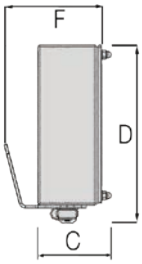
Options/Accessories

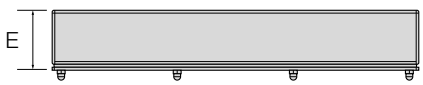
Part #	Description	Price
185256	Mount bracket, 2 tilting side brackets for LaserLT-100	$65.00
185258	Visor for LaserLT-100	$165.00

Dimensions

Large Display Digital Weight Indicator			
LaserLT-60			
A	16.14 in (410 mm)	D	7.28 in (185 mm)
B	6.50 in (165 mm)	E	2.64 in (67 mm)
C	3.03 in (77 mm)	F	4.84 in (123 mm)
LaserLT-100			
A	16.93 in (430 mm)	D	7.63 in (194 mm)
B	7.28 in (185 mm)	E	2.52 in (64 mm)
C	2.52 in (64 mm)	F	3.98 in (101 mm)







Standard Features

- LED Display
- Integrated five-key waterproof keypad
- Includes removable back wall mount bracket
- Up to four independent scales or four load cell inputs
- Quick menu for real and theoretical calibration
- Up to three calibration linearization points
- Semi-automatic and preset tare
- Two digital outputs for 13 setpoint types with timers to enable on and delay period
- Two digital inputs for operating keys remotely

Specifications

Power:
AC voltage: 100 to 240 VAC
DC voltage: 12 to 24 VDC

Excitation Voltage:
5 VDC, 120 mA, 16 × 350 ohm

Analog Signal Input Range:
± 39 mV

Analog Signal Sensitivity:
0.03 µV/graduation minimum
0.3 µV/graduation recommended

A/D Sample Rate:
Four channel A/D up to 200 Conv./sec. auto select

Resolution:
Internal: 1,500,000 counts
Display: 800,000

Digital I/O:
Two inputs: 12/24 VDC
Two outputs: 150 mA 48 VAC/150 mA 60 VDC

Communication Ports:
(1) RS-232, (1) RS-485

Display:
6-digit, 7-segment discrete
red LED lamps, single width
2.4 in (60 mm) or 4 in (100 mm) digit
Decimal/comma indication in any position
Annunciators for NT, Stability, COZ
5 levels of intensity

Maximum Viewing Distance:
LaserLT-60: 2.4 in digit 75 ft (25 m)
LaserLT-100: 4 in digit 100 ft (30 m)

Keys/Buttons:
Five key, Zero (Down), Tare (Up),
Mode (Right), Print (Enter), C (On/Off)

Temperature:
-40° F to 120° F (-40° C to 49° C)

Rating/Material:
304 stainless steel, IP68

Weight:
10 lb (4.5 kg)

Warranty:
One-year limited

Approvals:
NTEP CC 20-046 III/IIIL 10,000 d
Measurement Canada AM-6165C III/IIIL 10,000 d
CE Marked

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1280 Enterprise™ Series

User Programs







Standard Features

- Pre-programmed applications are built in or available as free downloads from www.ricelake.com/1280
- Applications are designed to carry out process-specific weighing tasks
- Utilize Rice Lake's iRite™ programming language to fully customize any application beyond existing functionality
- For use with all models of 1280 Enterprise Series (hardware requirements may apply)

Axle Weighing Program

1280 with custom programming interfaced with a short- or long-axle scale can direct each axle across the scale using traffic lights (optional).

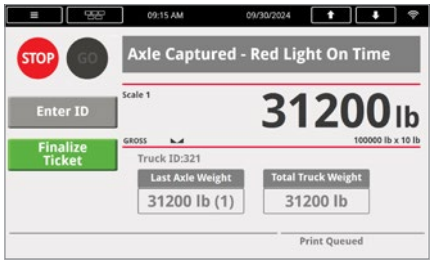
- Short- or long-axle
- Auto or manual weighment types
- Weigh-out ticket format
- Weigh ticket with individual axle weight and total
- Inbound and transaction storage

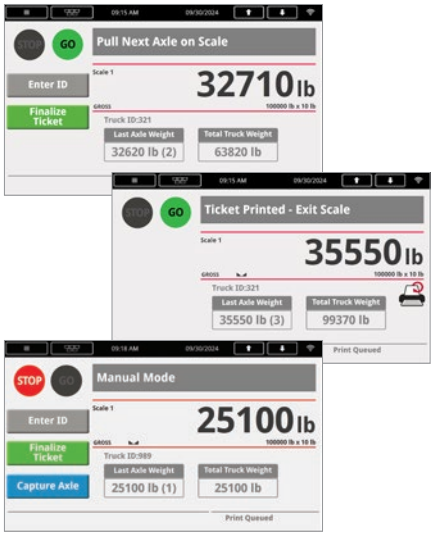
Optional

- Remote print input
- Manual weighing short axle, long axle weigh-in and -out with axles

Suggested Hardware:

- PN 171427 1280 single channel A/D
- PN 81076 Epson TM-U220
- PN 101923 FRP box with 4-channel rack OPTO22 (relays not included)
- PN 23146 traffic light kit
- PN 15971 AC output relays for above (2 needed)
- PN 167093 LaserLight2™ stop and go remote display





Truck In/Out Program

Truck In/Out programs offer advanced reporting through customer or truck reports including transaction database storage.

- Value swapping (on/off)
- Stored empty truck (tare) weights on/off
- Printed inbound/outbound tickets
- Customer reports by product or truck
- Tag, inbound, product, customer and transaction database storage

Optional

- Manual toggle of lights

Suggested Hardware:

- PN 171427 1280 single channel A/D
- PN 220027 1280 dual channel A/D for 3-scale
- PN 108425 iQUBE^2 4-channel (additional 4-channel iQUBE^2 board PN 108433)
- PN 227157 iQUBE^3 CPU Board, 4-channel, small poly (additional 4-channel iQUBE^3 board PN 231373)
- PN 81076 Epson TM-U220 ticket printer
- PN 23113 Epson TM-U295 ticket printer
- PN 167093 LaserLight2 stop and go remote display





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Static Checkweigher Program

Application for static checkweigher with a stored low and high weight associated with an ID. A digital output will be activated based on configuration parameters: over, under or accept. Stores the ID, weight, status and time/date in a database.

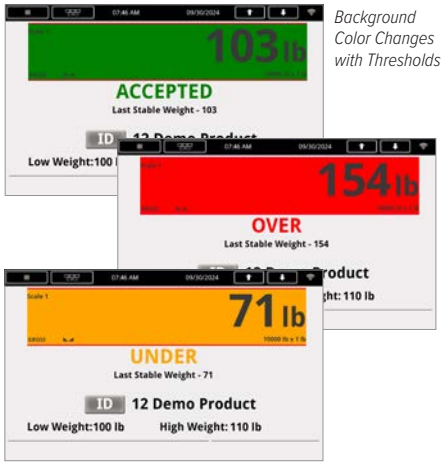
- Stored IDs with high/low weight
- Transaction storage
- Digital I/O for Over/Under/Accept values
- Ticket formatting
- Compatible with WeighVault®

Suggested Hardware:

- PN 171427 single channel 1280 universal
- PN 81076 TM-U220D tape printer (sold separately, PN 15547 25-pin communication cable)
- PN 225024 scanner kit QD2590
- PN 125546 WeighVault for CW90-90X and 1280

Password Protected Access to Setup





Background Color Changes with Thresholds

Counting Program

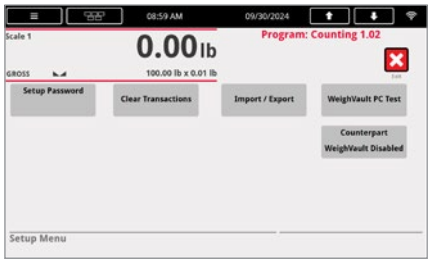
Ideal for piece counting and packaging applications, configuration for two scales. System only supports PRIMARY units.

- Supports two (2) scales, sampling and counting
- Part database
- Transaction storage
- Ticket formatting
- Compatible with WeighVault

Suggested Hardware:

- PN 171662 1280 dual channel A/D card
- PN 81076 TM-U220D tape printer (sold separately, PN 15547 25-pin communication cable)
- PN 125546 WeighVault for Counterpart and 1280





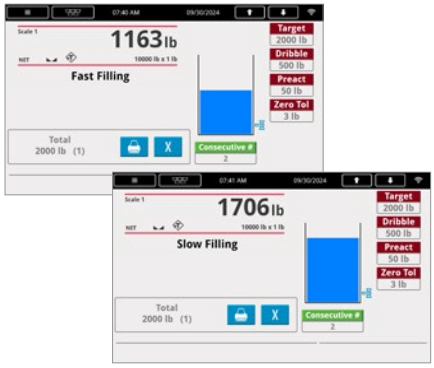
Configuration Menu Includes View of Weight Value

Filling/Dosing Program

Application for gross or net container filling, including auto-fill and discharge settings for single-scale systems.

- Auto fill, auto discharge
- Single scale
- Transaction storage
- Start/E-stop digital I/O
- Container-in-place input
- Fast and slow fill, complete, zero, discharge
- Print output





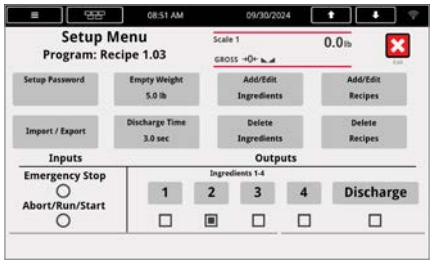
Suggested Hardware (Recipe and Filling/Dosing):

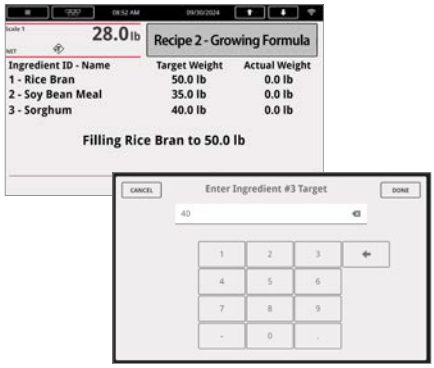
- PN 171427 Single Channel 1280 Universal
- PN 81076 Epson TM-U220 ticket printer
- PN 23113 Epson TM-U295 ticket printer
- PN 101923 FRP Box with 4-channel rack OPTO22 (relays not included)
- PN 19369 FRP Box with Start/E-Stop/Abort/Run

Recipe Program

Formula Batcher is an automated program, with up to eight ingredient setpoints.

- Single scale and digital I/O option cards
- Auto tare, begin/end and store
- Formula, ingredient and transaction storage
- Transmit fill and accumulation through serial ports
- Built-in safety interlocks
- Batch ticket and total report
- Start/E-stop, fast and slow fill, complete and discharge outputs





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920i® Series

User Programs



Standard Features

- Pre-programmed software to carry out specific weighing functions
- Utilize Rice Lake's iRite™ programming language
- For use with all Rice Lake 920i models (hardware requirements may apply)
- Available pre-installed with purchase of new equipment, or via iRev™ for installation on existing 920i models
- Fully customizable

Part Number/Price

Part #	Description	Price
153146	Short axle weighing program	$595.00
SZ99999	Truck in/out with report	$73.00
77297	Truck in/out with products/customers/trucks and reports	$495.00
156886	Grain program with shrink calculation	$395.00
156959	Dual kiosk truck in/out single scale	$1,050.00

Short Axle Weighing Program

PN 153146:

920i custom program will interface to a short axle scale and direct each axle across the scale using traffic lights.

Suggested Hardware:

- PN 67527 920 single channel A/D
- PN 23113 Epson TM-U295 ticket printer
- PN 101923 FRP box with 4 channel relay rack, for traffic light control
- PN 23146 Traffic light kit
- PN 15971 AC output relays for above (2 needed)
- PN 103181 LaserLight remote display (optional)
- PN 167093 LaserLight2™ remote display (optional)









Grain Program with Shrink Calculator

PN 156886:

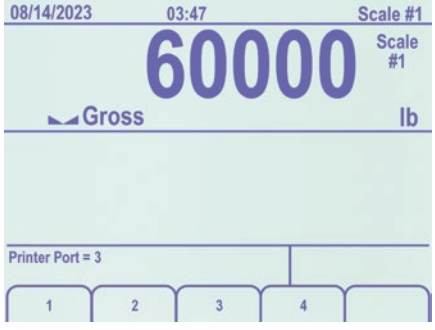
This custom application for the 920i supports weighing trucks of grain. Up to 200 grain types, associated divisors and accumulator can be stored. Up to 500 accounts and 1,000 trucks can be stored.

Suggested Hardware:

- PN 67527 920i single channel A/D
- PN 67600 1M memory card
- PN 23113 Epson TM-U295 ticket printer
- PN 93359 PS/2 keyboard







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Truck In/Out with Products/ Customers/Trucks and Reports

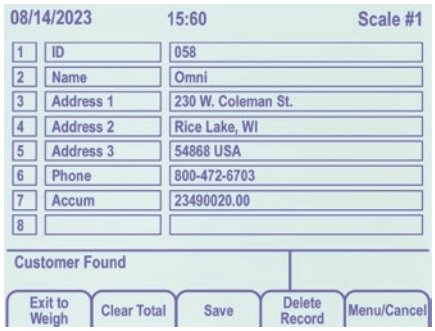
PN 77297:

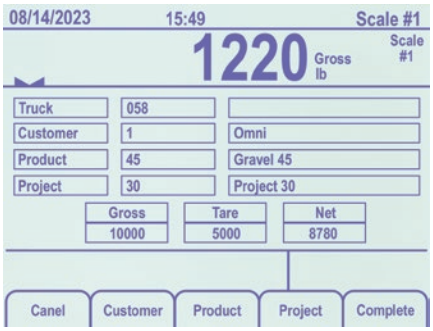
This program supports truck in/ out weighing program for manual truck transactions using Rice Lake Weighing Systems' 920i digital weight indicator. Stored IDs allow you to keep a database of truck IDs, customer, product, project information and weigh-in weights in the indicator's memory. Parameters are accessed by simply scrolling through the Supervisor main menu using the down arrow on the 920i. The 920i can automatically store up to 100 truck IDs and tare weights, 950 customers, 1,000 products and 1,000 projects.

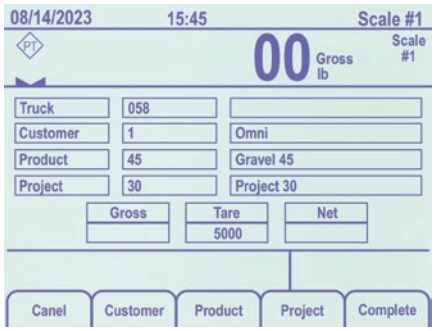
Suggested Hardware:

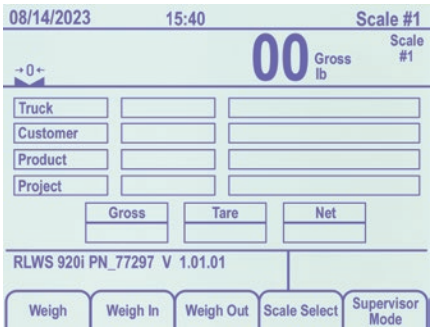
- PN 67527 920i single channel A/D
- PN 67600 1MB memory card
- PN 23113 Epson TM-U295 ticket printer
- PN 93359 PS/2 keyboard











Dual Kiosk Truck In/Out Single Scale

PN 156959:

System consists of a bidirectional single platform truck scale, inbound truck kiosk and outbound truck kiosk. Inbound (if two outbound kiosks are used) and outbound tickets with transaction storage of each weighment.

Suggested Hardware:

- (2) PN 119687 Inbound/Outbound kiosk
- PN 119689 A/D kiosk option







Truck In/Out with Report

PN SZ99999:

920i program allows trucks to weigh in and out (saves inbound weight after weighing out and has value swapping) and stores the transaction after each weigh out with truck ID, gross, tare and net. Transactions may be printed or cleared at any time through the Setup menu. An HID scanner is available as a peripheral piece of hardware.

Suggested Hardware:

- PN 119687 Outbound kiosk
- PN 119689 A/D kiosk option
- PN 119743 HID kiosk option







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920i® FlexWeigh Systems

Fillers/Batchers



Manufacturer-Approved
DIRECT REPLACEMENT FOR FLEXWEIGH'S DWM-IV

Approvals

UL LISTED

Standard Features

- Wall mount stainless steel enclosure
- Front panel switches E-Stop, Reset/Resume, Start
- Softkeys for presets, CN#, ID#, formula#, totals
- Accumulating subtotal and total registers
- Transmitted audit trail
- Digital I/O board
- Relay rack and SSR relay outputs

Standard Switches	101	102	103	104	201	202
E-Stop mushroom	X	X	X	X	X	X
Reset/resume	X	X	X	X	X	X
Start	X	X	X	X	X	X
Discharge	-	X	-	-	-	X

Standard Outputs	101	102	103	104	201	202
Fast fill**	X	X	X	X	X	X
Slow fill***	X	X	X	X	X	X
Fill complete*	OPT	OPT	X	X	OPT	OPT
Zero tolerance	OPT	OPT	-	-	OPT	OPT
Discharge	-	X	-	-	-	X
Refill	-	-	X	-	-	-
Refill complete	-	-	OPT	-	-	-
Slow cycle	-	-	OPT	X	-	-

** Dispense for 103 and 104*
*** Fast Fill Ingredient 1 201/202*
**** Fast Fill Ingredient 2 201/202*
920i Flexweigh systems are designed for 120VAC line voltage. If the application requires 220VAC or DC control voltage, please consult with sales before placing an order.

101 Basic Filler

Place an empty container on the scale. Automatically fill the container to a preset weight. Remove the container from the scale. Replace it on the scale with an empty container and repeat the process.

102 Automatic Fill, Automatic Discharge

Place an empty container under the scale. Automatically fill the scale to a preset weight. Discharge the scale into the container. Remove the container from under the scale. Replace it under the scale with another empty container and repeat the process.

103 Loss-In-Weight Filler

Dispense preset net weight quantities from the scale until either low level or less-than-preset gross weight is achieved. Then refill to high level.

104 Loss-In-Weight Filler

Product supply containers are placed on the scale. Net weight quantities are dispensed from the containers until empty. When containers empty in the middle of a dispense cycle, the cycle is paused and allowed to resume where it left off when the empty containers are replaced on the scale with filled ones.

201 Four Ingredient Dual Speed or Eight Ingredient Single Speed Batcher

Place empty container on scale, automatically fill multiple ingredients in a sequential order to preset formula weights. Remove the container, replace with empty and repeat.

202 Four Ingredient Dual Speed or Eight Ingredient Single Speed With Discharge

Fill tank or hopper with multiple ingredients in a sequential order then empty into a vessel below.

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Part Number/Price

Part #	Description	Est. Weight	Price
120320	920i FlexWeigh Systems 101	23 lb	$5,045.00
199060	920i FlexWeigh Systems 101, includes manual/auto and jog switches	23 lb	$5,395.00
120321	920i FlexWeigh Systems 102	23 lb	$5,295.00
199061	920i FlexWeigh Systems 102, includes manual/auto and jog switches	23 lb	$5,645.00
120322	920i FlexWeigh Systems 103	23 lb	$5,245.00
120323	920i FlexWeigh Systems 104	23 lb	$5,045.00
207904	920i FlexWeigh Systems 201	23 lb	$5,295.00
207905	920i FlexWeigh Systems 202	23 lb	$5,495.00

Options/Accessories

Part #	Description	Price
120491	920i FlexWeigh Systems 101 manual	$25.00
120493	920i FlexWeigh Systems 102 manual	$25.00
124473	920i FlexWeigh Systems 103 manual	$25.00
120496	920i FlexWeigh Systems 104 manual	$25.00
152146	920i FlexWeigh Systems 201/202 manual	$25.00

To have your option factory installed, please specify when placing your order.

Optional Switches (Installed Price: $150.00)

	Switch Part #	Legend Part #	101	102	103, 104	201	202
Selector 3 position	94296						
Manual/Off/Auto		121035	X	X	X	X	X
Manual Ingredient Select						X	X
Push-button	94276						
Fill		121036	X	X		X	X
Discharge		121037		X			X
Dispense		121038			X		
Refill		121039			X		
Maintained/Off/Spring Return	94299						
Fill On/-/Jog		121040	X	X		X	X
Fill Fast/-/Slow		121041	X	X		X	X
Discharge On/-/Jog		121043		X			X
Discharge Fast/-/Slow		121044		X			X
Dispense On/-/Jog		121046			X		
Dispense Fast/-/Slow		121048			X		
Refill On/-/Jog		121049			X		
Manual Feed		—				X	X

Optional Front Panel Lights (Installed Price: $150.00)

	Lamp	Legend	101, 102	103	104	201	202
Ready	94289 Green	121051	X			X	X
Fill Complete	94290 Red	121052	X			X	X
Filling	98760 Amber	121053	X				
Filling Fast	98760 Amber	121054	X				
Filling Slow	98760 Amber	121055	X				
Discharging	94292 Blue	121056	X			X	X
Discharging Fast	94292 Blue	121057	X				
Discharging Slow	94292 Blue	121058	X				
Dispensing	98760 Amber	121059		X	X		
Dispensing Fast	98760 Amber	121060		X	X		
Dispensing Slow	98760 Amber	121061		X	X		
Dispensing Complete	94290 Red	121062		X	X		
Refilling	94292 Blue	121063		X			
Refill Complete	94290 Red	121064		X			
Low Supply	94290 Red	121065		X			
Fill Time Alarm	94290 Red	121066		X	X		
Feeding (1-4)	98760 Amber	—				X	X
Slow Cycle	94290 Red	—	X	X	X		

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920i® FlexWeigh Systems

Bulkweighers and Flip Flop Fillers



Approvals

Available with models 107, 108 and 109

Manufacturer-Approved
DIRECT REPLACEMENT FOR FLEXWEIGH'S DWM-IV

Standard Switches	107	108	109
E-Stop mushroom	X	X	X
Start/Resume	X	X	X
End cycle	X	X	X
Ship/Recv	-	-	X

Standard Inputs	107	108	109
Fill gate closed	X	X	X
Discharge gate closed	X	X	X
Surge hopper not full	X	X	X
Weigh hopper not full	X	X	X
Printer online	X	X	X

Standard Outputs	107	108	109
Slow cycle alarm	OPT	OPT	OPT
Gate alarm	OPT	OPT	OPT
Scale over fill alarm	OPT	OPT	OPT
Lower surge alarm	OPT	OPT	OPT
Printer alarm	OPT	OPT	OPT
Open fill gate	X	X	X
Open discharge gate	X	X	X

Standard Features

- Wall mount stainless steel enclosure
- Application program 107, 108, 109
- Front panel switches E-Stop, Start/Resume, End Cycle, Ship/Recv (only 109)
- Softkeys for presets, ID1 and ID2
- Accumulating weight streaming
- Fill and discharge sequence controls
- Fill and discharge gate monitoring
- Printer online checking
- Weigh and surge hopper overfill monitoring
- Transmitted audit trail
- Digital I/O board
- Relay rack and SSR relay outputs

Options

- Pilot lights for error indication
- Manual override switches

Part Number/Price

Part #	Description	Est. Weight	Price
207906	920i FlexWeigh Systems 107	23 lb	$6,795.00
207907	920i FlexWeigh Systems 108	23 lb	$6,795.00
207908	920i FlexWeigh Systems 109	23 lb	$7,145.00
207909	920i FlexWeigh Systems 111	23 lb	$6,445.00
207910	920i FlexWeigh Systems 112	23 lb	$6,845.00

107 Shipping Bulkweigher

The 920i FlexWeigh 107 is designed for basic shipping-mode bulkweighing applications. In shipping mode, a scale is loaded and discharged repetitively until the accumulated weight meets the overall target value.

108 Receiving Bulkweigher

The 920i FlexWeigh 108 is designed for basic receiving mode bulkweighing applications. In receiving mode, a scale is loaded and discharged until there is no more product to receive. To end the cycle, the End Cycle button is pressed.

109 Ship/Receive Bulkweigher

The 920i FlexWeigh 109 allows the user to select which mode of operation to use. This is done with a three-position locking key switch.

111 Flip Flop Filler

The 920i FlexWeigh 111 is designed for filling two scales to a target weight in sequential "flip-flop" fashion. As one scale is filled, operators can prep the second scale, e.g., moving a container into place.

112 Flip Flop Filler with Discharge

The 920i FlexWeigh 112 is designed for filling two scales to a target weight in sequential "flip-flop" fashion. As one scale is filled, the second scale is discharged via independent or manual methods.

Options/Accessories

Part #	Description	Price
151848	920i FlexWeigh Systems 107/108/109 manual	$25.00

To have your option factory installed, please specify when placing your order.

Optional Switches

Installed Price: $150.00

	Type	107	108	109
Manual/Off/ Auto	3 position key selector	X	X	X
Man Fill On/-/Jog	Maintained/Off/ Spring Return		X	X
Man Disch On/-/Jog			X	X

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920i® FlexWeigh Systems

Flow Rate Controllers



Standard Features

- Wall mount stainless steel enclosure
- Application program 105, 106
- Front panel switches E-Stop, Reset/Resume, Start
- Softkeys for presets, CN#, ID#, formula#, totals
- Accumulating subtotal and total registers
- Transmitted audit trail
- Digital I/O board
- Relay rack and SSR relay outputs

105 Basic Flow-Rate Controller

Dispense preset net weight quantities at preset flow rate values.

106 Loss-In-Weight with Flow-Rate Control and Automatic Refill

Dispense preset net weigh quantities at preset flow rate values with automatic refill when gross weight drops below threshold.

Standard Switches/Outputs

Standard Switches	105	106
E-Stop mushroom	X	X
Reset/Resume	X	X
Start	X	X

Outputs	105	106
Fast fill	X	-
Slow fill	X	-
Fill complete*	X	-
Zero tolerance	Opt	-
Discharge	X	X
Refill	-	X
Refill complete	-	Opt
Slow cycle	Opt	Opt

** Dispense for 105 and 106*

Approvals

Manufacturer-Approved
DIRECT REPLACEMENT FOR FLEXWEIGH'S DWM-IV

Part Number/Price

Part #	Description	Est. Weight	Price
Consult	920i FlexWeigh Systems 105	23 lb	$5,545.00
Consult	920i FlexWeigh Systems 106	23 lb	$5,545.00

Accessories

Part #	Description	Price
Consult	920i FlexWeigh Systems 105 manual	$73.00
Consult	920i FlexWeigh Systems 106 manual	$73.00

920i® FlexWeigh Systems

Hand Batching



Standard Features

- Stainless deep universal mount enclosure
- Softkeys for presets ID#; formulas; accumulating, subtotal and total registers
- Switch for manual confirmation
- 20 ingredient database
- 100 formula database
- Audit trail data output
- Ingredient usage totals

211 Manual Batching System

Prompts the user through manual weight additions based on a pre-entered formula

Approvals

Manufacturer-Approved
DIRECT REPLACEMENT FOR FLEXWEIGH'S DWM-IV

Part Number/Price

Part #	Description	Est. Weight	Price
207927	920i Flexweigh Systems 211	13 lb	$3,945.00

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MSI-8000HD

Digital Weight Indicator/RF Remote Display



Approvals

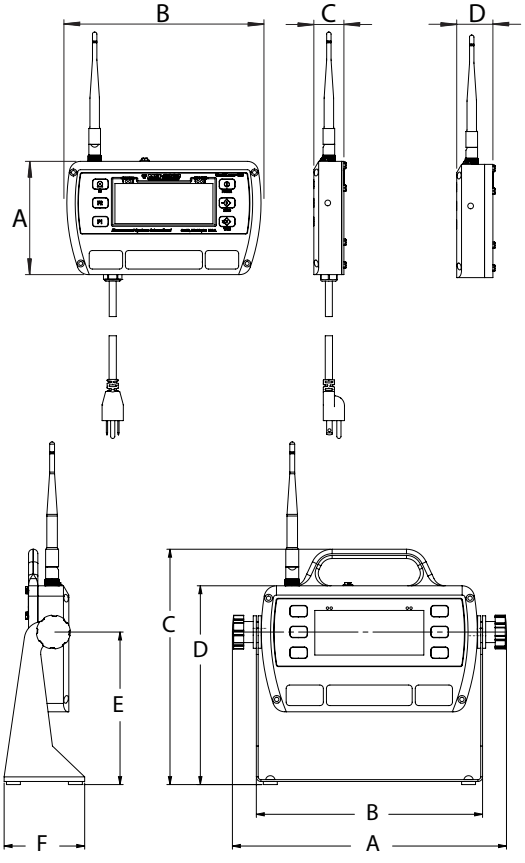
Standard Features

- Compatible with all ScaleCore™ based products
- LCD display
- Time and date
- Membrane keypad for remote-control functionality
- User-definable function keys for added versatility
- Swivel tilt stand

Dimensions

MSI-8000HD	
A	5.09 in (129 mm)
B	8.98 in (228 mm)
C	1.35 in (34 mm)
D	1.63 in (41 mm)

With Tilt Stand	
A	11.06 in (281 mm)
B	9.13 in (232 mm)
C	9.50 in (241 mm)
D	8.02 in (204 mm)
E	6.16 in (156 mm)
F	3.25 in (83 mm)



Options

(Contact MSI for application consultation)

- 18 to 72 VDC power
- Up to 8 configurable relay outputs
- Wi-Fi communications
- Wi-Fi indicators
- 802.15.4 Serial RF
- FHSS
- Wired Ethernet

Specifications

Power:
90 to 267 VAC, 9 to 36 VDC, 18 to 72 VDC, 120 to 300 VDC
Optional battery power module available

Excitation Voltage:
4.8 V current limited and over-voltage protected

RF Remote Channels:
Up to four remote sensors, monitored individually, in pairs or sum all (non-A/D version only)

Service Counters:
A/D version only

A/D Inputs:
Two independent or summing load cell inputs

Filtering:
Off, Low, Hi-1, Hi-2

RF Radio Link:
2.4 GHz 802.15.4
Compatible with all ScaleCore™ based products, including:
MSI-7300 Dyna-Link 2,
MSI-3460 Challenger 3,
MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001

RF Effective Range:
Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:
Dual RS-232 communication ports

Annunciators:
Stable, COZ, Peak, kg, kN, lb, M, Ton, Setpoint, Function LEDs
Channels: 1, 2, 3, 4, TTL

Display:
Six-digit 1.0 in (26.4 mm) LCD

Units Displayed:
Pounds, kilograms, tons, metric tons, kilonewtons

Keys/Buttons:
On/Off, zero (100%), tare, print, and two user-defined keys for the following functions: peak hold, high resolution, total, view total, net/gross, units switching

Rating/Material:
Enclosure: NEMA Type 4, IP66 milled anodized aluminum with O-ring gaskets

Temperature:
Certified: 14 °F to 104 °F (-10° °C to 40 °C)
Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Warranty:
One-year limited

Approvals:
NTEP 15-110

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Part Number/Price

Part #	Description	Est. Weight	Price
Indicator			
158427	Indicator, dual channel, 85 to 265 VAC	5 lb (2.5 kg)	$2,025.00
158428	Indicator, dual channel, internal battery	5 lb (2.5 kg)	$2,150.00
160478	Indicator, dual channel, 7 to 36 VDC	5 lb (2.5 kg)	$1,825.00
159380	Indicator, dual channel, 9 to 36 VDC	5 lb (2.5 kg)	$1,850.00
158425	Indicator, RF, dual channel, 85 to 265 VAC	5 lb (2.5 kg)	$2,050.00
158426	Indicator, RF, dual channel, internal battery	5 lb (2.5 kg)	$2,175.00
160477	Indicator, RF, dual channel, 7 to 36 VDC	5 lb (2.5 kg)	$2,050.00
159378	Indicator, RF, dual channel, 9 to 36 VDC	5 lb (2.5 kg)	$2,075.00
Remote Display			
153591	Remote display, RF, 85 to 265 VAC	5 lb (2.5 kg)	$1,675.00
154853	Remote display, RF, internal battery	5 lb (2.5 kg)	$1,825.00
160476	Remote display, RF, 7 to 36 VDC	5 lb (2.5 kg)	$1,625.00
159376	Remote display, RF, 9 to 36 VDC	5 lb (2.5 kg)	$1,650.00

Options/Accessories

Part #	Description	Price
155173	MSI-8000HD spare tilt stand option kit	$94.00
155193	MSI-8000HD Ethernet TCP/IP option kit wired	$475.00
162178	Antenna extension kit, 6 ft	$535.00
148624	MSI-8000HD serial RS-232 cable	$150.00
158779	MSI-8000HD two each coil relay option kit, 250 VAC/30 VDC 5 A or 100 VDC 0.4 A	$410.00
158780	MSI-8000HD two each solid state relay option kit, 60 V pk 2.7 A	$410.00
158781	MSI-8000HD two each solid state relay option kit, 200 V pk 0.9 A	$420.00
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000HD battery powered device	$180.00
149550	Universal 115/230 VAC 50/60 Hz (international plugs) battery charger for MSI-8000HD battery powered device	$180.00
171203	Audible alarm kit	$390.00
176963	Serial print cable (for GoDex printer)	$175.00
Relays		
172490	Expanded relay kit, four-channel, 12 A 5 V, latching relays	Consult
172492	Expanded relay kit, four-channel, 12 A 5 V, momentary relays	Consult
Consult	Expanded relay kit, four-channel, 0.9 A 200 V pk, AC/DC solid state relays	Consult
172495	Expanded relay kit, eight-channel, 12 A 5 V, momentary relays	Consult
172500	Expanded relays option kit, four-channel, 3 A, 60 V pk solid state Form C relays	Consult
172501	Expanded relays option kit, eight-channel, 3 A 60 V pk, solid state Form C relays	Consult
172502	Expanded relays option kit, eight-channel, 0.9 A 200 V pk, solid state Form C relays	Consult
171676	Expanded relays option kit, eight-channel, 12 A 5 V, latching relays	Consult

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MSI-8004HD

Digital Weight Indicator/RF Remote Display



Approvals

Measurement Canada Approved

Standard Features

- Multicolor LED display
- Backlit membrane keypad for user functioning and controls
- Tilt bracket included
- Color changing display (via setpoints)

Options

(Contact MSI for application consultation)

- Expanded relay outputs
- Battery pack for mobile operation
- Second radio module for additional network connectivity
- Remote display 8 to 32 VDC
- Remote display 5 VDC
- Remote display 9 to 36 VDC
- Indicator 8 to 32 VDC
- Wired Ethernet
- Single and dual channel analog output
- Additional antenna kits
- Extended relay option kits

Part Number/Price

Part #	Description	Price
Indicator		
221177	AC Power (85 to 264 VAC), Multi-color display, RF	$2,075.00
221183	AC Power (85 to 264 VAC), Multi-color display, RF, Instant power-on	$2,050.00
221179	DC Power (9 to 36 VDC), Multi-color display, RF	$2,075.00
221181	DC Power (5 VDC), Multi-color display, RF	$2,225.00
Remote Display		
221176	AC Power (85 to 264 VAC), Multi-color display, RF	$2,075.00
221180	External battery (Li-ion 5V/3A), multi-color display, RF	$2,025.00

Specifications

Power:
90 to 267 VAC, 9 to 36 VDC, 18 to 72 VDC, 120 to 300 VDC

Excitation Voltage:
4.8 V current limited and over-voltage protected

Functions:
Peak hold, high resolution, total, view total net/gross, units switching

Units:
Pounds and kilograms

Channels:
1, 2, 3, 4, TTL

RF Remote Channels:
Up to 4 remote sensors, monitored individually, in pairs or sum all (non-A/D version only) (when used with TranSend™)

Service Counters:
A/D version only

A/D Inputs:
Two independent or summing load cell inputs

Relays:
Two 5 V coil, 250 VAC, 5 A relays

Filtering:
Off, Low, Hi-1, Hi-2

RF Radio Link:
2.4 GHz 802.15.4, optional second channel for Serial RF, 802.11 Wi-Fi

RF Effective Range:
Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports
Two RS-232 hard wired communication ports

Annunciators:
Stable, COZ, BT, RF, TTL, NET, kg, lb

Display:
Six-digit, 1.5 in (38 mm) LED display with red/green/orange coloring

Keys/Buttons:
On/Off, Zero, Tare, Print and two user-defined keys

Temperature:
Certified: 23 °F to 104 °F (-5 °C to 40 °C)
Operating: -40 °F to 140 °F (-40 °C to 60 °C)

Rating/Material:
NEMA Type 4, IP66 milled anodized aluminum

Warranty:
One-year limited

Approvals:
NTEP 17-036
Measurement Canada AM-6068

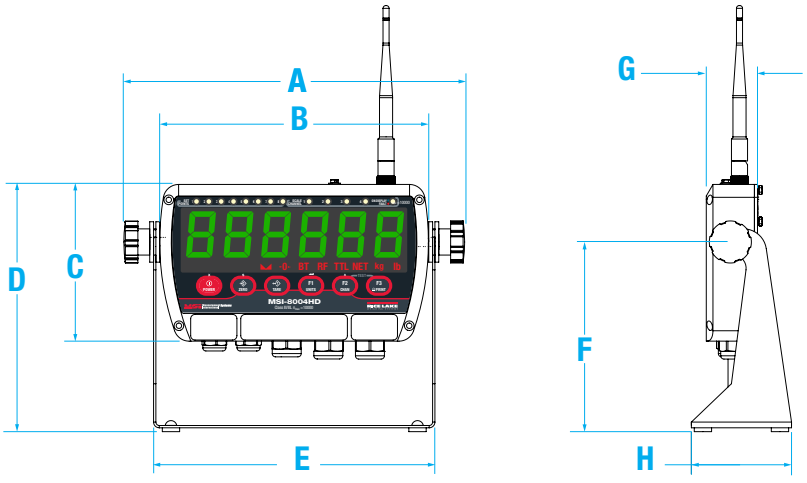
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Options/Accessories

Part #	Description	Price
162178	Antenna extension kit, 6 ft	$535.00
197013	Antenna extension kit, 20 ft	$575.00
199105	Audible alarm not compatible with battery versions	Consult
22436	Cable assembly, DB9F to bare wires, 6 in, Gen 1	$70.00
148624	Cable assembly, RS232 DB9, Gen 2	$150.00
183437	Battery, 5V Li-ion battery with USB power ports. Output 5 V/3.0 A per port (6.0 A max) rate, 2 A per port (4 A if both ports are used).	$245.00
187425	8004 option kit, Wi-Fi with TNC connector	$210.00
187424	8004 option kit, 2nd Xbee® with TNC connector	$220.00
223594	Option Kit, Dual Analog Output, 8004HD	$625.00
224817	Ethernet (forward module only)	$250.00

Dimensions

MSI-8004HD			
With Tilt Stand			
A	11.10 in (282 mm)	E	9.13 in (232 mm)
B	8.76 in (223 mm)	F	6.16 in (156 mm)
C	8.02 in (204 mm)	G	3.25 in (83 mm)
D	5.09 in (129 mm)	H	1.66 in (42 mm)



SCT-1100

Signal Conditioning Transmitter



SCT1100-AN with Analog Output



SCT-1100-AN in Plastic Enclosure

Approvals

Measurement Canada Approved

Standard Features

- Up to four independent scales or four load cell inputs
- Quick menu for real and theoretical calibration
- Red LED display
- DIN rail mountable
- Configurable calibration and setup parameters from keyboard
- Calibration using linearization points
- Reading of the net, gross and tare weights, clearing, semi-automatic and preset tare, scale switch, setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, setting of APW in counting mode, digital input for key press
- Modbus RTU or ASCII protocol
- Easy configuration with Rice Lake Tools software

Part Number/Price

Part #	Description	Est. Weight	Price
202101	Indicator, SCT-1100-AN four load cell input with Analog Output	1 lb	$560.00
197011	Indicator, SCT-1100-AN four load cell input with Analog Output in plastic enclosure	1 lb	$675.00

NOTE: PN 182588 is superseded by 202101

Options/Accessories

Part #	Description	Est. Weight	Price
188483	SCT-1000 converter RS-232/485 to Ethernet TCP/IP and Modbus TCP. Does not have an A/D	1 lb	$400.00
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	$160.00



SCT-1000
Serial to Ethernet converter

Specifications

Power:
12/24 VDC

Power Consumption:
70 mA min to 100 mA max

Excitation Voltage:
5VDC, 120 mA, 8 × 350 ohm load cells

Analog Signal Input Range:
± 39 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum

A/D Sample Rate:
Four channel A/D 24-bit sigma-delta conversion, up to 200 conv./sec. auto select

Resolution:
Internal: 1,500,000 counts
Display: 800,000

Digital I/O:
Two inputs: 12/24 VDC
Two outputs: 150 mA 48 VAC/150 mA 60 VDC

Serial Ports:
Modbus RTU or ASCII selectable/bidirectional (both ports)
(1) RS-485 for connection to a PC or weight repeater
(1) RS-232 for connection to a PC or printer

Analog Output (if equipped):
Opto isolated, 16-bit
0 to 20mA, 4 to 20mA (Maximum 350 ohm)
0 to 5VDC, 0 to 10VDC (Minimum 10,000 ohm)

Annunciators:
Net, center of zero, stability

Display:
Six-digit (10 mm), red LED

Keys/Buttons:
Five key, membrane panel, tactile feel Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)

Dimensions:
(L × W × H)
4.17 × 3.54 × 2.28 in
(106 × 90 × 58 mm)

Temperature:
5 °F to 104 °F (-15 °C to 40 °C)

Humidity:
85% non-condensing

Rating/Material:
Enclosure: NEMA Type 4, plastic
Clear cover: six PG9 cord grips

Warranty:
One-year limited

Approvals:
NTEP 20-046
Measurement CanadaAM-6165C
OIML R76/2006-A-GB1-19.17
UKCA Marked
cULus Listed

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SCT-2200

Signal Conditioning Transmitter



SCT2200 pictured with optional EtherNet/IP module

Approvals

Measurement Canada Approved

Standard Features

- HUB mode connects up to 16 transmitters to one fieldbus
- Two RS-485 port for "daisy-chain" network connection
- Quick menu for real and theoretical calibration
- Remote access through web browser for weight monitoring and calibration over EtherNet/IP™, PROFINET and Modbus TCP network
- Red LED display
- DIN rail mountable
- Calibration using linearization points
- Reading of the net, gross and tare weights, clearing, semi-automatic and preset tare setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, simulation of key pressure, Modbus RTU or ASCII protocol
- Printer management on second serial port available
- Multi-range function allows for subdividing the scale capacity in two, each up to 3,000 divisions
- Easy configuration with Rice Lake Tools software

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitters			
202103 *	Indicator, SCT-2200 for scale input to be used with fieldbus module	1 lb	$375.00
202104 *	Indicator, SCT-2200-AN with analog output to be used with fieldbus module	1 lb	$500.00
Fieldbus			
182592	Fieldbus, SCT-2200, PROFINET module	1 lb	$625.00
194343	Fieldbus, SCT-2200, Ethernet TCP/IP and Wi-Fi	1 lb	$620.00
182593	Fieldbus, SCT-2200, PROFIBUS® module	1 lb	$425.00
182591	Fieldbus, SCT-2200, EtherNet/IP™ module	1 lb	$625.00
182596	Fieldbus, SCT-2200, DeviceNet® module	1 lb	$625.00
182598	Fieldbus, SCT-2200, EtherCAT module	1 lb	$620.00
182597	Fieldbus, SCT-2200, CANopen module	1 lb	$620.00
196694	Fieldbus, SCT-2200, Modbus TCP module	1 lb	$620.00
182599	Cable with RJ45 plugs, 6 in length	1 lb	$15.00
212772 **	Fieldbus, SCT-2200, PROFIBUS module	1 lb	$425.00

NOTE: PN 182587 is superseded by 202103 and PN 182589 is superseded by 202104.
**How to Order the SCT-2200 for use with fieldbus module*
Order 1 RJ45 cable for every Scale module connected to a Fieldbus module.
*** Compatible with 682 indicator*

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	$160.00

Specifications

Power:
12/24 VDC

Power Consumption:
70 mA min to 100 mA max

Excitation Voltage:
5 VDC, 120 mA, 8 × 350 ohm load cells

Analog Signal Input Range:
± 39 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum

A/D Sample Rate:
One channel A/D 24-bit sigma-delta conversion, up to 200 conv/sec. auto select

Resolution:
Internal: 1,500,000 counts
Display: 800,000

Digital I/O:
Two inputs: 12/24 VDC
Two outputs: 150 mA 48 VAC/150 mA 60 VDC

Communication Ports:
(1) RS-485, (1) RS-232
Analog output (if equipped):
Opt isolated, 16-bit
0-20 mA, 4-20 mA (Maximum 350 ohm)
0-5 VDC, 0-10 VDC (Minimum 10,000 ohm)

Annunciators:
Net, center of zero, stability

Display:
Six-digit 0.31 in (8 mm), red LED

Keys/Buttons:
Five key, tactile feel
Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)

Dimensions:
(L × H × D)
4.72 × 4.52 × 0.98 in
(120 × 115 × 25 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Humidity:
85% non-condensing

Rating/Material:
NEMA Type 1 plastic pluggable connectors

Weight:
1 lb (0.5 kg)

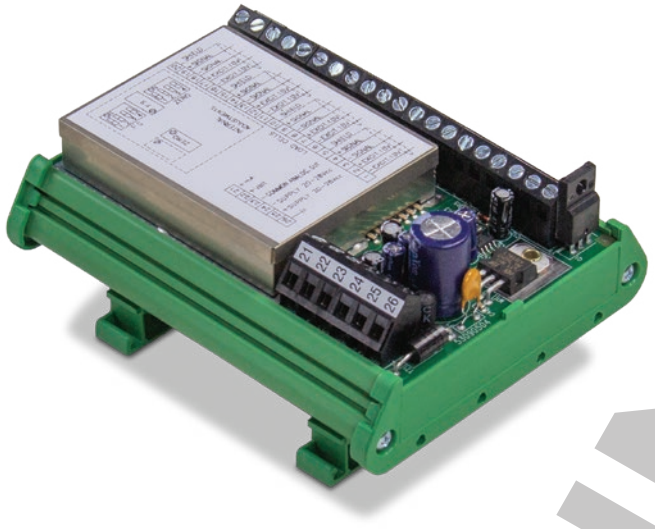
Warranty:
One-year limited

Approvals:
NTEP 20-046
Measurement Canada AM-6165C
OIML R76/2006-A-GB1-19.17
UKCA Marked
cULus Listed

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SCT-3300

Signal Conditioning Transmitter



Approvals

UK CA

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitters			
188725	Indicator, SCT-3300 four load cell input with Analog Output	1 lb	$400.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	$160.00

Standard Features

- Powers up to six (350 ohm) load cells in parallel
- Analog amplifier and transmitter
- Analog output: 0-20 mA, 4-20 mA, 0-10 V
- Mounting on Omega/DIN rail for back panel or junction box

Specifications

Power:
Input: 20 to 28 VDC

Power Consumption:
8 W

Excitation Voltage:
10 VDC, 170 mA, 6 × 350 ohm load cells

Analog Signal Input Range:
3.5 to 24 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum
1.0 µV/graduation recommended

A/D Sample Rate:
300 Hz

System linearity:
± 0.01% full scale

Analog Output (if equipped):
Opto isolated
0-20 mA, 4-20 mA (max 300 ohm)
0-10 VDC (min 10,000 ohm)

Dimensions:
(L × W × H)
4.56 × 3.72 × 2.4 in
(114 × 93 × 60 mm)

Temperature:
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Humidity:
85% non-condensing

Rating/Material:
DIN rail mount: NEMA Type 1

Weight:
0.5 lb (0.2 kg)

Warranty:
One-year limited

Approvals:
UKCA Marked

DISCONTINUED

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SCT-1PX

Transmitter with Integrated Fieldbus and Web Server



Standard Features

- Integrated web server allows complete diagnostics, calibration and remote configuration
- Real-time warning of any faults or disconnections of the load cell
- Configuration and calibration through Rice Lake Tools, XSpeed software or display navigation
- Power supply circuit with protections against overloads, polarity reversal and short circuits, specific for industrial environments
- Micro-USB communication and configuration port accessible from display for quick programming, diagnostics and data backup
- All scale data and adjustments are available through integrated fieldbus with up to 120 updates per second
- Removable terminal blocks to simplify wiring in the electrical panel
- Modbus RTU protocol integrated, up to 110 updates per second

Part Number/Price

Part #	Description	Est. Weight	Price
229189	SCT1PX-AN		$500.00
229190	SCT1PX-PRONET		$750.00
229191	SCT1PX-ETHIP		$750.00
229192	SCT1PX-MODTCP		$750.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	$160.00
Consult	Alibi Memory for type-approved communication to PC/PLC (fiscal memory, max 120,000 weighs) built-in real time clock to print the date/time with PCB, screw terminal, plastic box		Consult
Consult	Real time clock for printing/displaying of date and time		Consult

Specifications

Power:
12 to 24 VDC

Power Consumption:
5 W

Excitation Voltage:
5 VDC, 230 mA
up to 16 × 350 ohm load cells

Analog Signal Input Range:
±39 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum

A/D Sample Rate:
24-bit A/D
Single channel up to 4,800 Hz

Resolution:
Internal: 4,000,000 counts
Display: up to 800,000
Up to 8 linearization points

Digital I/O:
Two inputs: 12/24 VDC
Two outputs*: 500 mA, up to 48 VAC or 60 VDC
*(up to six with option for analog version only)

Serial Ports:
One micro-USB port (device) for PC configuration
One RS-485
EtherNet /IP™ or PROFINET IO or Modbus TCP (Fieldbus version)

Analog Output (if equipped):
Opt. isolated, 16-bit
0 to 20 mA, 4 to 20 mA (maximum 350 ohm)
0 to 5 VDC, 0 to 10 VDC (minimum 10,000 ohm)

Annunciators:
Nine LEDs

Display:
Six-digit 0.56 in (14.2 mm), red LED

Keys/Buttons:
Five tactile keys
Zeroing, Tare, function mode, manual data printing/sending, On/Stand-by

Dimensions:
(L × W × H)
3.93 × 2.08 × 5.35 in
(100 × 53 × 136 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:
85% RH, non-condensing

Rating/Material:
Aluminum IP65

Warranty:
One-year limited

Approvals:
CE-M EN 45501
UL

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SCT-1SX

Transmitter with Integrated Fieldbus and Web Server



Standard Features

- Load cell status diagnostics
- USB port for quick programming
- Integrated fieldbus and web server for configuration, diagnostics and data backup
- Process up to 4800 weight readings per second. The high speed allows an extremely accurate weight filtering even with weighing being performed in milliseconds.
- Up to 120 updates per second on Fieldbus
- New power supply circuit of the load cells (up to 16) for a better weighing stability
- Power supply circuit with protections against overloads, polarity reversal and short circuits, specific for industrial environments
- Micro-USB communication port for configuration, diagnostics and data backup is available on all versions
- Modbus RTU protocol integrated on all versions, up to 110 updates per second
- Real-time warning of any faults or disconnections of the load cell
- The integrated web server allows full diagnostics, calibration and remote configuration of the weight transmitter from an Ethernet network
- Calibration via theoretical (mV/V), with sample weights, web server or xSpeed software tool
- Easy configuration with Rice Lake Tools software

Optional xSpeed Software

- Customization of the weighing filter, to maximize the speed and accuracy in static and dynamic applications
- Graphical weighing analysis for the identification of mechanical disturbances and vibrations. Oscilloscope function for system diagnostics and filter optimization.

Part Number/Price

Part #	Description	Est. Weight	Price
216820	SCT-1SX-AN weight transmitter and analog output for DIN rail mount with digital I/O 2 IN and 4 OUT		$895.00
229550	SCT-1SX-ETHIP weight transmitter and EtherNet/IP™ port for DIN rail mount with digital I/O 2 IN and 4 OUT, integrated web server		$1,295.00
216821	SCT-1SX-PRONET weight transmitter and PROFINET port for DIN rail mount with digital I/O 2 IN and 4 OUT, integrated web server		$1,095.00
216823	SCT-1SX-MODTCP weight transmitter and Modbus TCP port for DIN rail mount with digital I/O 2 IN and 4 OUT, integrated web server		$1,295.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	$160.00
Consult	Alibi Memory for type-approved communication to PC/PLC (fiscal memory, max 120,000 weighs) built-in real time clock to print the date/time with PCB, screw terminal, plastic box		Consult
Consult	Real time clock for printing/displaying of date and time		Consult

Specifications

Power:
12 to 24 VDC, 5 W

Power Consumption:
70 mA min to 100 mA max

Excitation Voltage:
5V, 250 mA, 16 × 350 ohm load cells

Analog Signal Input Range:
±39 mV

Analog Signal Sensitivity:
High resolution 0.01 µV/d
Legal for trade 0.3 µV/e

A/D Sample Rate:
Up to 4800 Hz

Resolution:
Internal: 1,500,000 counts
Display: 800,000
Legal for Trade divisions
Up to 10,000e or multi-field 2 × 3,000e

Digital I/O:
Two inputs, configurable: 12 to 24 VDC
Four outputs, configurable: 150 mA 48 VAC/150 mA 60 VDC

Communication Ports:
One RS-485, one RS-232,
one micro-USB port (device)
Serial port update rate: up to 1600 Hz
Fieldbus update rate: up to 120 Hz

Analog Output (if equipped):
OPTO isolated, 16-bit
0 to 20 mA, 4 to 20 mA (maximum 350 ohm)
0 to 5 VDC, 0 to 10 VDC (minimum 10,000 ohm)

Annunciators:
Net, center of zero, stability

Display:
Six-digit (8 mm), red LED

Keys/Buttons:
Five key, membrane panel
Zero (down), Tare (up), Mode (right), Print (enter), C (on/off)

Dimensions:
(L × W × H)
4.72 x 0.9 x 4.0 in
(120 x 23 x 112 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:
85% non-condensing

Rating/Material:
Enclosure: ABS plastic

Warranty:
One-year limited

Approvals:
CE-M EN 45501
2014/30/EU EMC
2014/35/EU LVD
2011/65/EU RoHS
OIML R61 - MID
OIML R76

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Standard Features

- Manage up to four load cells (one scale) or four scales with load cell feed circuit for greater weighing stability
- Process to 2,600 weight readings per second for single-channel
- Integrated web server allows complete diagnostics, calibration and remote configuration (not available on AN models)
- 14.2 mm display with new configuration menu to simplify calibration and configuration
- All data and adjustments of each scale are available through integrated fieldbus with up to 120 updates per second
- Frontal micro-USB communication port for configuration, diagnostics and data backup
- Removable terminal blocks to simplify wiring in the electrical panel
- RS-485 communication port always available on all versions
- Power supply circuit with protections, specific for industrial environment

Optional xSpeed Software

- Customization of the weighing filter, to maximize the speed and accuracy in static and dynamic applications
- Graphical weighing analysis for the identification of mechanical disturbances and vibrations
- Oscilloscope function for system diagnostics and filter optimization

Part Number/Price

Part #	Description	Est. Weight	Price
216824	SCT-4XAN high speed weight transmitter and analog output for DIN rail mount with digital I/O, 2 IN, 2 OUT, keypad, LED display (does not include web server)		$940.00
216825	SCT-4X-ETHIP high speed 4 channel weight transmitter and EtherNet/IP™ port for DIN rail mount with digital I/O 2 IN, 2 OUT, 5-key keypad, LED display		$1,175.00
216826	SCT-4X-MODTCP high speed 4 channel weight transmitter and Modbus TCP port for DIN rail mount with digital I/O 2 IN, 2 OUT, 5-key keypad, LED display		$1,155.00
216827	SCT-4X-PRONET high speed 4 channel weight transmitter and PROFINET port for DIN rail mount with digital I/O 2 IN, 2 OUT, 5-key keypad, LED display		$1,125.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	$160.00
Consult	Alibi Memory for type-approved communication to PC/PLC (fiscal memory, max 120,000 weighs) built-in real time clock to print the date/time with PCB, screw terminal, plastic box		Consult
Consult	Real time clock for printing/displaying of date and time		Consult

Dimensions

SCT-4X					
A	4.17 in(106 mm)	E	1.77 in (45 mm)	I	0.20 in (5 mm)
B	1.77 in (45 mm)	F	1.30 in (33 mm)	J	0.59 in (15 mm)
C	3.54 in (90 mm)	G	0.54 in (13.7 mm)	K	0.39 in (10 mm)
D	1.38 in (35 mm)	H	2.28 in (58 mm)		

Specifications

Power:
12 to 24 VDC

Power Consumption:
5 W

Excitation Voltage:
5 VDC, 230 mA
up to 16 × 350 ohm cells

Analog Signal Input Range:
± 39 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum

A/D Sample Rate:
24-bit A/D
Single channel up to 2,600 conv/sec
4 channels up to 100 conv/sec

Resolution:
Internal: 3,000,000 counts
Display: up to 800,000
Up to 8 linearization points

Digital I/O:
Two inputs: 12/24 VDC
Two outputs: 150 mA 48 VAC/ 150 mA 60 VDC

Communication Ports:
1 Micro-USB port (device) for PC configuration
(1) RS-485, (1) RS-232

Analog Output (if equipped):
OPTO isolated, 16-bit
0 to 20 mA, 4 to 20 mA (maximum 350 ohm)
0 to 5 VDC, 0 to 10 VDC (minimum 10,000 ohm)

Annunciators:
Nine LEDs

Display:
Six-digit 0.31 in (8 mm), red LED

Keys/Buttons:
Five tactile keys
Zeroing, Tare, function mode, manual data printing/ sending, on/stand-by

Dimensions:
(L × W × H)
4.17 × 2.20 × 4.64 in
(106 × 56 × 118 mm)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -4 °F to 140 °F (-20 °C to 60 °C)

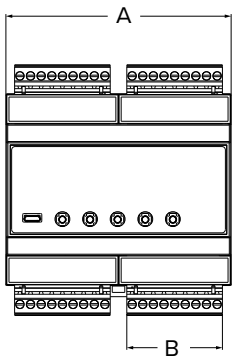
Humidity:
80% RH, non-condensing

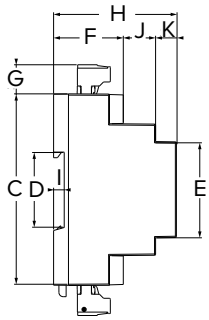
Rating/Material:
NEMA Type 1 plastic pluggable connectors
ABS

Weight:
1 lb (0.5 kg)

Warranty:
One-year limited

Approvals:
CE-M EN 45501

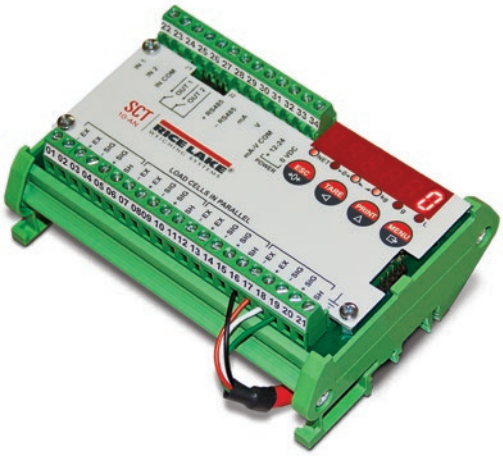


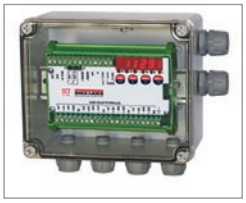


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SCT-10

Signal Conditioning Transmitter





SCT-10 in Plastic Enclosure

Approvals

cULus

Standard Features

- Converts digital weight to analog output
- Sums four input channels in parallel
- Theoretical calibration, real-weigh calibration, linearity calibration
- Push-button or preset tare
- Full-scale analog output with zero setting and PLC correction of analog signal
- Displays weight, configuration, calibration and error conditions
- DIN-rail mounting, suitable for back panel
- Two digital inputs, two digital outputs
- Supports ASCII or Modbus RTU protocols

Part Number/Price

Part #	Description	Est. Weight	Price
129393	SCT-10 converter with Analog Output	1 lb	$585.00
129394	SCT-10 converter with Analog Output in enclosure	1 lb	$760.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	$160.00
131129	Installation manual	1 lb	$25.00
199687	DIN rail clip right & left end clamp		$11.00

Specifications

Power:
Input: 12 to 24 VDC

Power Consumption:
5 W

Excitation Voltage:
5 VDC, 120 mA, 8 × 350 ohm load cells

Analog Signal Input Range:
± 19.5 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum
1.0 µV/graduation recommended

A/D Sample Rate:
80 Hz

Resolution:
Internal: 16,000,000 counts
Display: 999,999

System Linearity:
± 0.01% full scale

Digital I/O:
2 inputs 5-24 VDC, 2 outputs
24 VDC/60 mA
N.O. or N.C. (solid state)

Communication Ports
RS-485 or RS-232 simplex supports up to 115,200 bps

Analog Output:
Opto isolated, 16 bit
0-20 mA, 4-20 mA (max 300 ohm)
0-10 VDC, 0-5 VDC, -10 to 10 VDC,
5 to 5 VDC, (min 10 k ohm)

Annunciators:
Net, center of zero, stability, kg, g, lb

Display:
0.3 in (8 mm), six-digit, seven- segment LED

Keys/Buttons:
4-key membrane panel, tactile feel
Zero, Tare, Print, Menu, Escape, Left and Up Navigation, Enter

Dimensions:
(L × W × H)
DIN Rail Mount: 4.84 × 3.62 × 1.96 in (123 × 92 × 50 mm)
Enclosure: 6.69 × 5.51 × 3.74 in (170 × 140 × 95 mm)

Temperature & Humidity:
Operating Temperature: -4 °F to 140 °F (-20 °C to 60 °C)
Humidity: 85% non-condensing

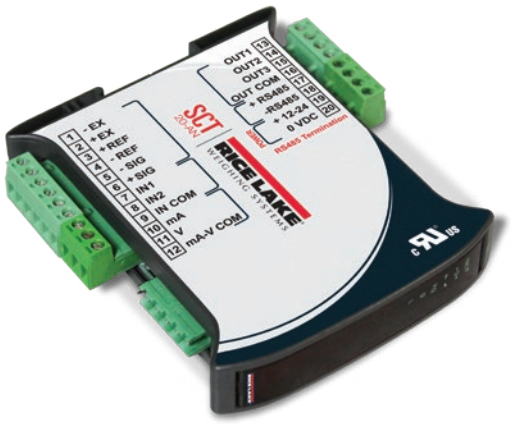
Rating/Material:
DIN rail mount: NEMA Type 1
Enclosure: NEMA Type 4/IP67, plastic
Clear cover: six PG9 cord grips

Weight:
1 lb (0.5 kg)

Warranty:
One-year limited

Approvals:
cULus Recognized

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Approvals

Standard Features

- Space saving, vertical shape with DIN-rail mounting
- Displays weight, configuration, calibration and error conditions
- Theoretical calibration, real-weigh calibration, linearity calibration
- Push-button or preset tare
- Converts digital weight to analog output or optional DeviceNet® or PROFIBUS® or EtherNet/IP™ protocol
- Supports ASCII or Modbus RTU protocols
- Full-scale analog output with zero setting and PLC correction of analog signal
- Bit swapping selection for little endian and big-endian format
- Two digital inputs, three digital outputs
- One serial port, RS-232 transmit only, or RS-485 half-duplex connection

Part Number/Price

Part #	Description	Est. Weight	Price
129396	SCT-20 converter with Analog Output	1 lb	$600.00
129397	SCT-20 converter with DeviceNet®	1 lb	$725.00
129558	SCT-20 converter with PROFIBUS® DP	1 lb	$785.00
129398	SCT-20 converter with EtherNet/IP™	1 lb	$1,000.00
132534	SCT-20 converter with Ethernet TCP/IP	1 lb	$1,055.00
156903	SCT-20 converter with Modbus TCP	1 lb	$1,000.00
131128	Installation manual	1 lb	$25.00

EtherNet/IP and Modbus output changed to Dual Port in 2019.

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	$140.00
119244	24 VDC 1.3 A DIN rail mount power supply.	1 lb	$160.00

Specifications

Power:
Input: 12 to 24 VDC

Power Consumption:
5 W

Excitation Voltage:
5 VDC, 120 mA, 8 × 350 ohm load cells

Analog Signal Input Range:
± 39 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum
1.0 µV/graduation recommended

A/D Sample Rate:
300 Hz

Resolution:
Internal: 16,000,000 counts
Display: 999,999

System linearity:
± 0.01% full scale

Digital I/O:
2 inputs 5 to 24 VDC, 3 outputs 115 VAC/150 mA N.O. or N.C. (dry contact)

Communication Ports:
RS-232 transmit only, or RS-485 half duplex
Supports up to 115,200 bps

Analog Output:
Opto isolated, 16 bit
0-20 mA, 4-20 mA (max 300 ohm)
0-10 VDC, 0-5 VDC (min 10 k ohm)

Display:
0.3 in (8 mm), six-digit, seven-segment LED
Annunciators: Net, center of zero, stability, kg, g, lb

Keys/Buttons:
4-key membrane panel, tactile feel
zero, tare, print, menu, escape, left and up navigation, enter

Dimensions
(W × H × D)
4.72 × 4.52 × 0.98 in
(120 × 115 × 25 mm)

Temperature:
Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:
85% non-condensing

Rating/Material:
Enclosure: NEMA Type 1 plastic
pluggable connectors

Weight:
1 lb (0.5 kg)

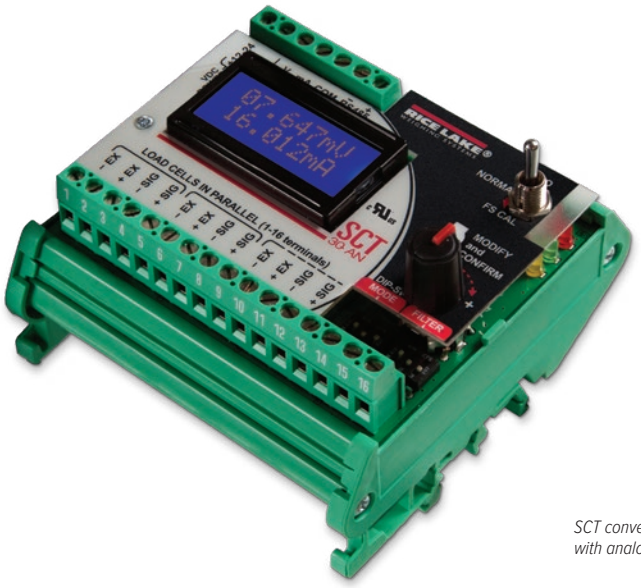
Warranty:
One-year limited

Approvals:
NTEP 14-083
cULus Recognized

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SCT-30

Signal Conditioning Transmitter



SCT converter with analog output

Approvals

c UL us

Part Number/Price

Part #	Description	Est. Weight	Price
156794	SCT-30 converter with Analog Output	1 lb	$475.00
156834	SCT-30 converter with Analog Output in enclosure	1 lb	$630.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	$160.00
131129	Installation manual	1 lb	$25.00
199707	DIN rail clip right & left end clamp		$11.00

Standard Features

- LCD display
- Powers up to eight (350 ohm) load cells in parallel (with a 24-bit A/D converter)
- A/D converter 24-bit 4.8 kHz
- 16-bit analog output: 0-20 mA, 4-20 mA, 0-5 V, 0-10 V, ± 5 V and ± 10 V
- Mounting on Omega/DIN rail for back panel or junction box
- Diagnostic message for load cell disconnect and over-capacity errors

Specifications

Power:
Input: 12 to 24 VDC

Power Consumption:
3 W

Excitation Voltage:
5 VDC, 120 mA, 8 × 350 ohm load cells

Analog Signal Input Range:
± 39 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum
1.0 µV/graduation recommended

A/D Sample Rate:
300 Hz

Resolution:
Internal: 16,000,000 counts

System Linearity:
± 0.01% full scale

Communication Ports:
RS-485

Analog Output:
Opto isolated, 16 bit
0-20 mA, 4-20 mA (max 300 ohm)
0-10 VDC, 0-5 VDC (min 10 k ohm)

Display:
Eight-digit alphanumeric tow line LCD, 5 mm high

Keys/Buttons:
Control knob and DIP switches

Dimensions:
(L × W × H)
3.74 × 3.54 × 2.36 in
(95 × 90 × 60 mm)

Temperature:
Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:
85% non-condensing

Rating/Material:
DIN rail mount: NEMA Type 1

Weight:
1 lb (0.5 kg)

Warranty:
One-year limited

Approval:
cULus Recognized

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Approvals

Standard Features

- LCD display
- Supports up to eight independent reading channels for load cells
- Displays weight, configuration, calibration and error conditions
- DIN rail mounting
- Theoretical calibration, real-weight calibration and linear calibration
- Push-button or preset tare
- Converts digital weight to analog output or optional DeviceNet®, PROFIBUS®, EtherNet/IP™, PROFINET and Modbus TCP protocols
- Supports ASCII or Modbus RTU protocols
- Bit swapping selection for little endian and endian format
- Three digital inputs, five digital outputs
- One serial port, RS-485 half duplex or RS-232 transmit-only connection

SCT-40AN only

- Full scale analog output with zero setting and PLC correction of analog signal

Part Number/Price

Part #	Description	Est. Weight	Price
170470	SCT-40 with Analog Output	1 lb	$800.00
170471	SCT-40 with DeviceNet®	1 lb	$1,045.00
170472	SCT-40 with PROFIBUS®	1 lb	$1,045.00
170473	SCT-40 with EtherNet/IP™	1 lb	$1,085.00
170474	SCT-40 with Ethernet TCP/IP	1 lb	$1,045.00
170475	SCT-40 with Modbus TCP	1 lb	$1,085.00
170476	SCT-40 with PROFINET IO	1 lb	$1,050.00

EtherNet/IP and Modbus output changed to Dual Port in 2019

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	$140.00
119244	24 VDC 1.3 A DIN rail mount power supply.	1 lb	$160.00
131128	Installation manual	1 lb	$25.00

Specifications

Power:
Input: 12 to 24 VDC

Power Consumption:
5 W

Excitation Voltage:
5 VDC, 240 mA, 16 x 350 ohm load cells

Analog Signal Input Range:
± 39 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum
1.0 µV/graduation recommended

A/D Sample Rate:
600 Hz

Resolution:
Internal: 16,000,000 counts
Display: 999,999

System linearity:
± 0.01% full scale

Digital I/O:
3 inputs 5 to 24 VDC, 5 outputs, 115 VAC/150 mA

Communication Ports
RS-232 transmit only, or RS-485 half duplex
Supports up to 115,200 bps

Analog Output (SCT-40AN only):
Opto isolated, 16 bit
0-20 mA, 4-20 mA (max 300 ohm)
0-10 VDC, 0-5 VDC (min 10 k ohm)

Display:
Backlit graphic LCD, transmissive
128 × 64 pixel resolution, 60 x 32 mm visible area

Keys/Buttons:
Five-key tactile keypad
test, zero, tare, print menu, escape, left and up, navigator, enter

Dimensions:
(L × W × H)
5.82 × 3.62 × 2.36 in
(148 × 92 × 60 mm)

Temperature:
Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:
85% non-condensing

Rating/Material:
DIN rail mount: NEMA Type 1

Weight:
1 lb (0.5 kg)

Warranty:
One-year limited

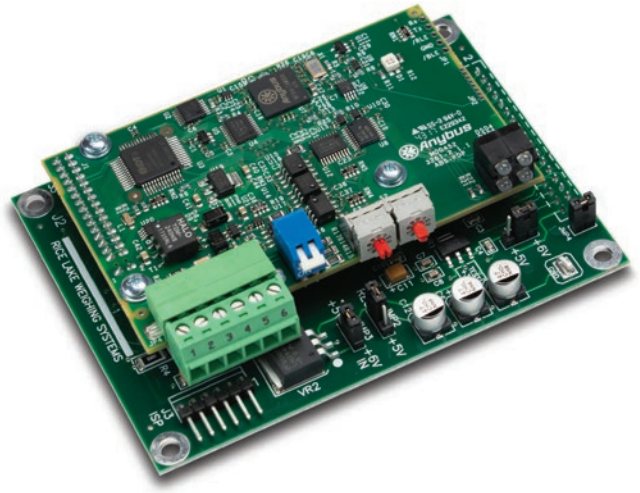
Approvals:
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FIELDBUS CARDS

PROFIBUS® DP Interface

720i™/920i®



Standard Features

- DP intelligent device
- Standard GSD file download from product page
- 128 selectable addresses
- Auto baud rate up to 56 K
- Registered with PROFIBUS Trade Organization
- Onboard diagnostic LEDs

Specifications

Power:
5 VDC, 350 mA

Fieldbus Interface:
Pluggable screw connector

Diagnostic LEDs:
Module status and network status

Dimensions:
2.00 × 1.90 × 0.75 in
(51.8 × 48 × 19 mm)

Temperature:
Operating:
14 °F to 158 °F (-10 °C to 70 °C)

Part Number/Price

Part #	Description	Est. Weight	Price
68540	PROFIBUS DP interface kit (internal), for 720i/920i indicators	3 lb	$720.00

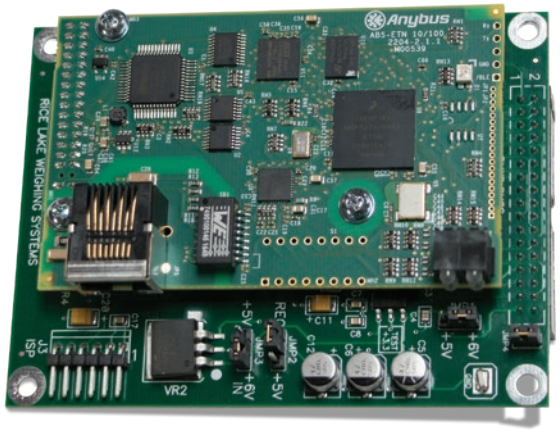
Options/Accessories

Part #	Description	Price
69948	Additional operating manual	$44.00

FIELDBUS CARDS

PROFINET IO Interface

920i®



Standard Features

- CE marked and UL conformance
- Onboard diagnostic LEDs
- Control protocols

Specifications

Power:
5 VDC, 350 mA (jumper for 6 VDC)

Fieldbus Interface:
RJ-45

Diagnostic LEDs:
Link status and module status

Dimensions:
2.13 × 3.38 × 0.59 in
(86 × 54 × 15 mm)

Temperature:
Operating:
14 °F to 1580 °F (-10 °C to 70 °C)

Part Number/Price

Part #	Description	Price
187816	PROFINET IO interface kit for 920i indicator	$895.00

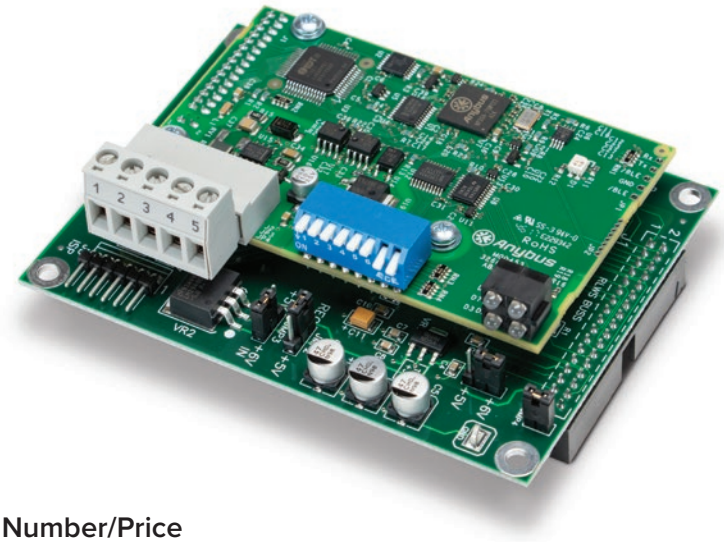
Options/Accessories

Part #	Description	Price
187907	Additional operating manual	$35.00

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DeviceNet® Interface

720i™/920i®



Standard Features

- DeviceNet communication adapter
- Polled I/O connection
- 125 Kbps, 250 Kbps, and 500 Kbps baud rate
- Onboard LED diagnostics
- Floating-point commands support decimal points

Specifications

Power:
5 VDC, 270 mA
Fieldbus connector requires 24 VDC, ±10%

Communication Ports:
Twisted-pair cabling at 125, 250, or 500 Kbps
Update rate is dependent on the configured baud rate and the number of network modes

Fieldbus Interface:
Pluggable screw connector

Diagnostic LEDs:
Module status and network status

Galvanic Isolation:
Bus power is separated from other electronics via DC/DC converter. The send and receive signals are isolated via opto couplers.

Dimensions:
2.13 × 3.38 × 0.59 in
(86 × 54 × 15 mm)

Temperature:
Operating: 14 °F to 158 °F (-10 °C to 70 °C)

Part Number/Price

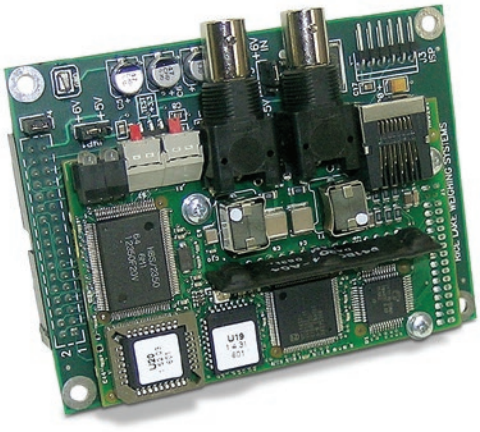
Part #	Description	Est. Weight	Price
68541	DeviceNet interface kit for 720i/920i indicators	3 lb	$720.00

Options/Accessories

Part #	Description	Price
69949	Additional operating manual	$44.00

ControlNet® Interface

920i®



Standard Features

- Option for 920i®
- Polled I/O connection
- Onboard LED diagnostics
- Floating-point commands support decimal points

Specifications

Power:
5 VDC, 350 mA (jumper for 6 VDC)

Fieldbus Interface:
BNC connector

Diagnostic LEDs:
Module status and network status

Dimensions:
2.13 × 3.38 × 0.59 in
(86 × 54 × 15 mm)

Temperature:
Operating:
14 °F to 158 °F (-10 °C to 70 °C)

Part Number/Price

Part #	Description	Price
103136	ControlNet interface for 920i indicator	$1,080.00
Cables		
Consult factory for coaxial cable with cord grips		

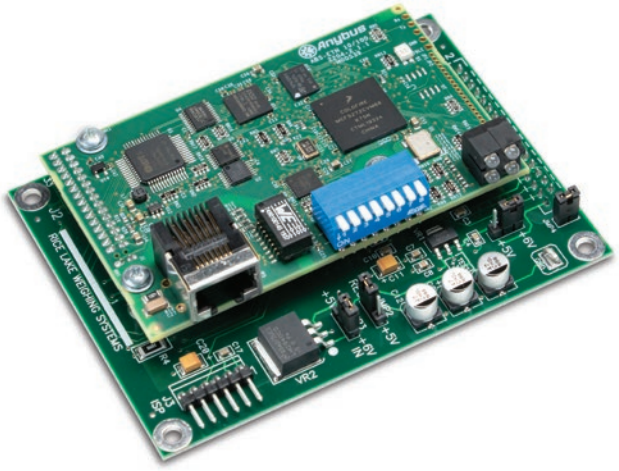
Options/Accessories

Part #	Description	Price
103122	Additional operating manual	$40.00

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EtherNet/IP™ Interface

720i™/920i®



Part Number/Price

Part #	Description	Price
87803	EtherNet/IP protocol card for 720i/920i indicators	$895.00

Options/Accessories

Part #	Description	Price
88537	Additional operating manual	$40.00

Standard Features

- Industrial protocol for Allen-Bradley PLC and other EtherNet/IP compliant devices
- IP address settings configurable with ip config utility, onboard DIP switches, web page, or ARP or DHCP
- Supports Rockwell Automation® EtherNet/IP level
- CE marked and UL conformance
- Onboard diagnostic LED
- Supports the Modbus TCP protocol and conforms to Modbus TCP specification 1.0

Specifications

Power:
5 VDC, 350 mA

Fieldbus Interface:
RJ-45

Diagnostic LEDs:
Module status and network status

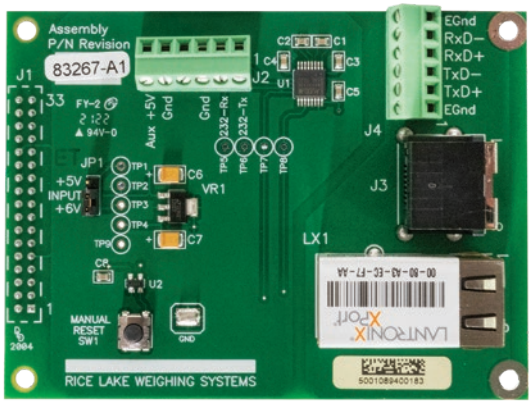
Dimensions:
2.13 × 3.38 × 0.59 in
(86 × 54 × 15 mm)

Temperature:
Operating:
14 °F to 158 °F (-10 °C to 70 °C)

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Ethernet TCP/IP Interface

720i™/920i®



Part Number/Price

Part #	Description	Est. Weight	Price
71986	Ethernet TCP/IP interface for 720i/920i indicators	3 lb	$455.00
206271	Wireless Ethernet TCP/IP interface for 720i/920i indicators	3 lb	$670.00
206272	Wireless Ethernet TCP/IP interface for 720i, CW-90 indicators and iQUBE²	3 lb	$610.00

Options/Accessories

Part #	Description	Price
72117	Additional operating manual	$14.00
Cables		
72697	RJ-45 to RJ-45, straight, 7 ft length	$40.00
78860	RJ-45 to RJ-45, cross over, 7 ft length	$40.00



PN 206272



PN 206271

Standard Features

- Supports any serial devices with seven or eight data bits requiring Ethernet access
- Compact size for internal installation in 720i and 920i indicators
- Can be used in other applications requiring five-volt power supplied
- 10/100 megabyte through RJ45 connector or wireless option
- HTTP, serial, telnet and SNMP management

Specifications

Power:
5 VDC, 250 mA

Supported Protocols:
ARP, UDP, TCP, Telnet, SNMP, ICMP, HTTP, BOOTP, DHCP and TFTP

Network Interface:
Ethernet: RJ-45 (10/100 Base-T) or AUI

Serial Line Formats:
Characters: 7 or 8 data bits
Stop bits: 1 or 2
Parity: odd, even, none

Data Rates:
Single port, 300 bps to 115.2 Kbps default 9,600

Dimensions:
2.00 × 1.90 × 0.75 in
(52 × 49 × 19 mm)

Temperature:
Operating:
41 °F to 122 °F (5 °C to 50 °C)

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PROFIBUS® DP Interface

880™/882D/882IS/1280™



Standard Features

- DP intelligent device
- Standard GSD file download from product page
- Selectable addresses
- Up to 12 Mbps baud rate
- Onboard diagnostic LEDs

Specifications

Power:
3.3 VDC, 250 mA

Connector Type:
DB9, pluggable

Diagnostic LEDs:
Module status and network status

Dimensions:
2.00 × 1.90 × 0.75 in
(52 × 49 × 19 mm)

Temperature:
Operating:
-40 °F to 158 °F (-40 °C to 70 °C)

Part Number/Price

Part #	Description	Est. Weight	Price
179163	PROFIBUS DP interface kit, for 880 indicator	1 lb	$600.00
165795	PROFIBUS DP interface kit for 1280 indicator	1 lb	$620.00
190534	PROFIBUS DP interface kit for 882D and 882IS indicators	1 lb	$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
156784	Additional operating manual	$40.00

PROFINET Interface

880™/882D/882IS/1280™



Standard Features

- PROFINET communication adapter
- Onboard diagnostic LEDs
- 100 Mbps baud rate
- Works as an I/O device on the PROFINET network
- PROFIenergy compliant

Specifications

Power:
3.3 VDC, 250 mA

Configuration:
GSDML file

Connector Type:
RJ-45 (Consult for dual-port version)

Diagnostic LEDs:
Module status and network status

IP Address Range:
Full IP address range DHCP

Dimensions:
2.00 × 1.90 × 0.75 in
(52 × 49 × 19 mm)

Temperature:
Operating:
-40 °F to 158 °F (-40 °C to 70 °C)

Part Number/Price

Part #	Description	Est. Weight	Price
179160	PROFINET interface kit for 880 indicator (single port)	1 lb	$600.00
205567	PROFINET interface kit for 880 indicator (dual port)	1 lb	$805.00
165794	PROFINET interface kit for 1280 indicator (single port)	1 lb	$620.00
190532	PROFINET interface kit for 882D and 882IS indicators	1 lb	$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
156781	Additional operating manual	$40.00

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DeviceNet® Interface

880™/882D/882IS/1280™



Part Number/Price

Part #	Description	Est. Weight	Price
179162	DeviceNet interface kit for 880 indicator	1 lb	$600.00
165793	DeviceNet interface kit for 1280 indicator	1 lb	$620.00
190531	DeviceNet interface kit for 882D and 882IS indicators	1 lb	$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
156783	Additional operating manual	$40.00

Standard Features

- DeviceNet communication adapter
- 125 Kbps, 150 Kbps and 500 Kbps baud rate
- Onboard diagnostic LEDs

Specifications

Power:
3.3 VDC, 250 mA

Connector Type:
Pluggable screw terminal

IP Address Range:
MAC ID 0 to 63

Diagnostic LEDs:
Module status and network status

Dimensions:
2.00 × 1.90 × 0.75 in
(52 × 49 × 19 mm)

Temperature:
Operating:
-40 °F to 158 °F (-40 °C to 70 °C)

Modbus TCP Interface

880™/882D/882IS/1280™



Part Number/Price

Part #	Description	Est. Weight	Price
179161	Modbus TCP Interface kit for 880 indicator (single port)	1 lb	$600.00
205568	Modbus TCP Interface kit for 880 indicator (dual port)	1 lb	$805.00
165796	Modbus TCP Interface kit for 1280 indicator (single port)	1 lb	$620.00
190533	Modbus TCP Interface kit for 882D and 882IS indicators	1 lb	$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
156782	Additional operating manual	$40.00

Standard Features

- Active module with serial and parallel application interface
- Complete Modbus TCP server
- Up to eight bytes of I/O data
- Transformer isolated interface 100 Mbps full duplex Ethernet
- Onboard diagnostic LEDs
- CE and UL compliant

Specifications

Power Requirements:
3.3 VDC, 250 mA

Connector Type:
RJ-45

Diagnostic LEDs:
Link status, network status, module status

Dimensions:
2.00 × 1.90 × 0.75 in
(51 × 48 × 19 mm)

Temperature:
Operating: -40 °F to 176 °F (-40 °C to 85 °C)

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EtherNet/IP™ Interface

880™/882D/882IS/1280™



Part Number/Price

Part #	Description	Est. Weight	Price
179159	EtherNet/IP interface kit for 880 indicator (single port)	1 lb	$600.00
205566	EtherNet/IP Interface kit for 880 indicator (dual Port)	1 lb	$805.00
165792	EtherNet/IP interface kit for 1280 indicator (single port)	1 lb	$620.00
208129	EtherNet/IP Interface kit for 1280 indicator (dual Port)	1 lb	$805.00
190530	EtherNet/IP Interface kit for 882D and 882IS indicators	1 lb	$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
156861	Additional operating manual	$40.00

Standard Features

- Industrial protocol for Allen-Bradley® PLC and other EtherNet/IP compliant devices
- IP address settings configurable with ip config utility, web page, ARP or DHCP
- Supports Allen-Bradley EtherNet/IP
- Onboard diagnostic LEDs
- CE marked and UL conformance
- AOP (880 only) or standard EDS file download

Specifications

Power Requirements:
3.3 VDC, 250 mA

IP Address Range:
Full IP address range

Connector Type:
RJ-45

Diagnostic LEDs:
Module status and network status

Dimensions:
2.00 × 1.90 × 0.75 in
(52 × 49 × 19 mm)

Temperature:
Operating:
-40 °F to 158 °F (-40 °C to 70 °C)

EtherCAT® Interface

880™/882D/882IS/1280™



Part Number/Price

Part #	Description	Est. Weight	Price
179158	EtherCAT interface kit for 880 indicator	1 lb	$600.00
179533	EtherCAT interface kit for 1280 indicator	1 lb	$620.00
190535	EtherCAT interface kit for 882D and 882IS indicators	1 lb	$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
164394	Additional operating manual	$40.00

Standard Features

- Two RJ-45 EtherCAT 100 Mbit/s ports available simultaneously
- Can be wired in several topologies including star, line or tree
- Has built-in redundancy that compensates for potential breaks in wiring
- No network switches necessary, can be wired directly from device to device
- Includes self-terminating network
- Onboard diagnostic LEDs
- CE, cULus and RoHS compliant

Specifications

Power:
3.3 VDC, 500 mA

Connector Type:
RJ-45 (dual port)

Diagnostic LEDs:
Module status and network status

Dimensions:
2.04 × 1.97 × 0.86 in
(52 × 50 × 22 mm)

Temperature:
Operating:
-40 °F to 158 °F (-40° C to 70 °C)

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Part Number/Price

Part #	Description	Est. Weight	Price
MSI-7000			
227549	Four-channel, transmitter, 85-265 VAC, load cell, w/3 relays	2 lb	$1,525.00
227550	Four-channel, receiver, 85-265 VAC, digital, w/3 relays	2 lb	$1,350.00
MSI-7001			
230905	Single-channel, transmitter, 85-265 VAC, load cell input	2 lb	Consult
230951	Single-channel, receiver, 85-265 VAC, mV output	2 lb	Consult
230952	Single-channel, receiver, 85-265 VAC, RS232 output	2 lb	Consult

Options/Accessories

Part #	Description	Price
143531	Power cord, 6 V SLA battery charger EU	$33.00
143533	Power cord, 6 V SLA battery charger, Australia	$54.00
143534	Power cord, 6 V SLA battery charger, UK	$49.00
162178	Antenna extension kit, 6 ft coax cable	$535.00
150964	RS-232 13 ft (4 m) serial cable with nine-pin (female) connector, MSI-7001	$220.00
150965	RS-232 13 ft (4 m) serial cable with nine-pin (male) connector, MSI-7001	$180.00
145085	RS-232 serial cable, unterminated, MSI-7000	$145.00
148624	Cable assembly, RS232/485 to DB9, used for setup and calibration	$150.00
144400	Cable assembly, 4-pin, female, 4 meter, mV	$110.00
145084	Cable assembly, 4-pin, female, 2 meter, mV	$64.00
162177	Cable assembly, 4-pin, male, 2 meter, A2D cable, MSI-7001	$145.00
162184	Connector, M12, 4-pin, straight, mV, MSI-7001	$65.00
162185	Connector, M12, 4-pin, right-angle, mV, MSI-7001	$65.00

Standard Features

- Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired
- Serial communication cable included

Options

(Contact MSI for application consultation)

- Multiple antenna selections
- Analog output
- Additional VDC input power

Specifications

Power:
85 to 265 VAC

Excitation Voltage:
Transmitter: +4.8 VDC, 16 × 350 ohm or 32 × 700 ohm load cells

Standard Antenna:
1/2 wave 2dBi, articulated

Frequency:
Spread spectrum at 2.4 GHz, 802.15.4

Effective Range:
Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:
Full duplex RS-232

Circuit Protection:
RFI, EMI, ESD protection

Temperature:
Operating:
-40 °F to 185 °F (-40 °C to 85 °C)

Rating/Material:
IP68, die-cast aluminum enclosure

Additional RF Options:
Wi-Fi
802.15.4
FHSS

Warranty:
One-year limited

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SendIt™

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
Transmitters			
5 to 6 VDC Power Input			
160331	Single-channel transmitter, 5 to 6 VDC no relays. RF 802.15.4, 2.4 GHz 5 to 6 VDC	2 lb	$1,075.00
Receivers			
5 to 6 VDC Power Input			
160338	Receiver to provide a mV signal to a digital weight indicator. RF 802.15.4, 2.4 GHz 5 to 6 VDC power input	2 lb	$1,150.00
Paired Set			
5 to 6 VDC Power Input			
165312	Includes one single-channel transmitter and one receiver, paired. Includes an RS-232 cable, a 2 m load cell cable and 2 m indicator cable/power source sold separately	5 lb	$2,350.00

Options/Accessories

Part #	Description	Price
162172	Charger, SendIt 6 V SLA battery	$73.00
162173	Battery, SendIt 6 V SLA	$155.00
162175	Enclosure, SendIt for 6 V SLA battery	$385.00
145548	Cord set, 13 ft (4 m)	Consult
150964	RS-232 13 ft (4 m) serial cable with nine-pin (female) connector	$220.00
150965	RS-232 13 ft (4 m) serial cable with nine-pin (male) connector	$180.00
160109	AC adapter, SendIt 6V	$62.00
162177	Cordset. Pre-wired for use with single channel transmitters or non-relay based receivers	$145.00
162184	Load cell connector. Field wireable, 4 to 6 mm straight. For use with single channel transmitters	$65.00
162185	Load cell connector. Field wireable, 6 to 8 mm straight. For use with single channel transmitters	$65.00
162186	Load cell connector. Field wireable, 4 to 6 mm right angle. For use with single channel transmitters	$65.00
162187	Load cell connector. Field wireable, 6 to 8 mm right angle. For use with single channel transmitters	$65.00
162178	Antenna kit, remote standard antenna, 5 ft	$535.00

Standard Features

- Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired and will not interfere with another set
- RS-232 cable included with transmitter and paired set

Specifications

Power:
5 to 6 VDC

Excitation Voltage:
Transmitter: +4.8 VDC, 16 × 350 ohm or 32 × 700 ohm load cells

Frequency:
Direct sequence spread spectrum at 2.4 GHz, 802.15.4 license free

Standard Antenna:
1/2 wave 2dBi, articulated

Effective Range:
Typically, 100 to 300 ft
For longer range, consult factory

Circuit Protection:
RFI, EMI, ESD protection

Communication Ports
Full duplex RS-232

Temperature:
-40 °F to 185 °F (-40 °C to 85 °C)

Rating/Material:
NEMA Type4 (IP66), aluminum black powder coated (excludes wall cube model)

Warranty:
Two-year limited

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ConnexLink™

Wireless Radio 900 MHZ Transceivers



Paired Radios

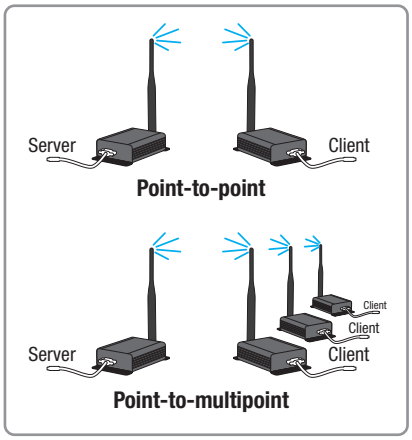
Part Number/Price

Part #	Description	Price
86134	ConnexLink RF device 900 MHz RF device server/client (requires minimum of 2)	$365.00
105776	ConnexLink Pro 900 MHz 1W, wireless transceiver with large buffer	$450.00
110538	ConnexLink FRP enclosure with heater	$1,565.00
110539	ConnexLink Pro enclosure with heater	$1,565.00
129662	Paired ConnexLink	$735.00

Options/Accessories

Part #	Description	Price
78827	Power supply, 115 VAC input/6 VDC output	$65.00
103979	Antenna 1/2 Wave, 2 dBi, 7 in for 900 MHz radios	$55.00
119448	Yagi antenna	$165.00
119449	Cable, Yagi antenna 20 ft*	$95.00
22436	RS-232 nine-pin female to blunt end	$70.00
98084	DC power cable option	$15.75

** max length per manufacturer specs*



Standard Features

- Durable industrial-grade enclosure with mounting flanges
- Reliable communications up to 115 to 200 kbps
- Supports point-to-point and point-to-multipoint applications

Specifications

Power:
Line voltage: 100 to 120 V
Frequency: 50/60 Hz (240 V outside the US)
Input: 7 to 18 VDC
Output: 5 to 1,000 mW variable

Power Supply:
AC transformer via 6 ft cable (183 cm)

Frequency Band:
902 to 928 MHz

Modulation:
FHSS FSK

Interface:
Standard: RS-232
ConnexLink PRO: RS-485

Serial Interface Data Rate:
Up to 115 to 200 kbps

Current Draw (at 12 VDC):
RF: Standard ConnexLink: 400 mA
Pro: 325 mA TX, 20 mA RX

Antenna Connector:
Reverse polarity SMA jack (female)

Channels:
32 selectable channels

Security:
1-byte system ID, DES

Sensitivity:
-99dB at full RF data rate

Range (line-of-sight):
Up to 20 miles (32 km)

Dimensions:
4.75 × 2.75 × 1.17 in
(121 × 70 × 30 mm)

Temperature:
Operating: -40 °F to 176 °F (-40 °C to 80 °C)

Humidity:
10% to 90% non-condensing

Weight:
< 6 oz (< 170 g)

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Industrial Broadband

Wireless Ethernet





Part Number/Price

Part #	Description	Price
166630	Industrial hot spot, 802.11a/b/g*	$2,155.00
161954	Industrial hot spot in FRP enclosure*	$3,195.00
161955	Paired radios for serial data tunneling*	$4,325.00

**Special ordered power supplies and antennas required*

Dimensions

FRP Enclosure			
A	8.5 in (216 mm)	B	10.5 in (267 mm)

Standard Features

- Serial and Ethernet connectivity
- Configures as 802.11 a/b/g access point, wireless bridge, wireless repeater and client
- Secure WPA2/128 bit encryption
- Dual band 2.4 GHz or 5 GHz bands
- Robust design for extreme temperatures (-40 °C to 75 °C) high vibration/shock and hazardous locations (UL Class 1, Division 2, Atex Zone 2)

Specifications

Frequency Band (varies by country):
2.412 GHz to 2.462 GHz (FCC)
2.412 GHz to 2.472 GHz (ETSI)
5.150 GHz to 5.250 GHz (FCC/ETSI)
5.725 GHz to 5.850 GHz (FCC)

Wireless Standards:
802.11a, 802.11b, 802.11g and 802.11i

Programmable (varies by country):
2.4 GHz: up to 100 mW (20 dBm)
5 GHz: up to 64 mW (18 dBm)

Channel Data Rates (modulation):
802.11b, 11, 5.5, 2, 1 Mbps (DSSS, BPSK, QPSK, CCK)
802.11g: 54, 48, 36, 24, 18,12, 9, 6 Mbps (OFDM)
802.11a: 54, 48, 36, 24, 18, 9, 6 Mbps (OFDM)

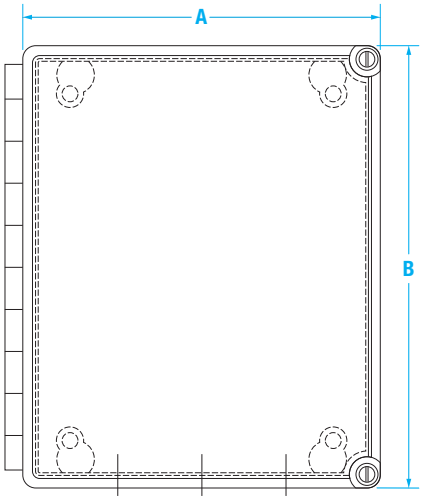
Receiver Sensitivity (Typical):
-90 dBm at 1 Mbps
-85 dBm at 11 Mbps
-82 dBm at 24 Mbps
-75 dBm at 54 Mbps

Channels Selection (varies by country):
1 to 13 (802.11a)

Security:
WPA2 - 802.11i with 128 bit AES-CCM legacy WPA TKIP, WEP support MAC ID filter, admin password



161954 Industrial hot spot



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Ubiquiti® NanoStation®

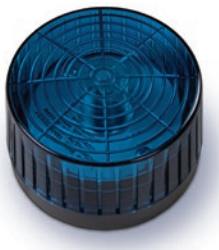


- Ethernet wireless bridge
- 5 GHz operating frequency
- RJ45 network interface
- PoE 2-pair (4, 5+: 7, 8 return) power method
- 24 V, 03 A gigabit PoE supply included
- 22 to 27 VDC voltage range
- Temperature: -40 °F to 158 °F (-40 °C to 70 °C)
- Humidity: 5% to 95% non-condensing

Part Number/Price

Part #	Description	Price
204477	Nanostation	$395.00

Visible Lights and Audible Alarms



Blue strobe (reference photo only)

Product may vary from photo



Buzzer (reference photo only)

Part Number/Price

Part #	Description	Price
Visible Lights and Audible Alarms		
22838	Buzzer, 80 dB, steady	$145.00
22839	Buzzer, 80 dB, pulse	$145.00
156106	Buzzer box, 115 VAC, FRP enclosure	$795.00
43931	Strobe lights, red	$225.00
43930	Strobe lights, amber	$225.00

Manual Pushbuttons/Pushbutton Switches



- Key switches
- Lighted pushbuttons
- Pilot lights
- Two- and three-position switches
- Colored pushbuttons
- Emergency stop mushroom switches
- Custom legend plates

Part Number/Price

Part #	Description	Price
Manual Pushbuttons/Pushbutton Switches		
Consult	Operator and contact block combinations	Consult

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USB to Serial Converter/Adapter

Serial Adapters



Standard Features

- Portable design—no AC power required
- Supports data transfer rates of more than 500 kbps
- Hot swappable

Specifications

Data Transfer Rate:
More than 500 kbps

LED:
Data transfer/handshaking (orange)

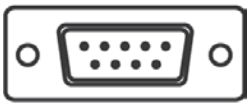
Power Consumption:
450 Mw USB

Specifications:
V1.1 compliant

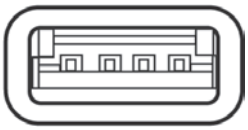
Part Number/Price

Part #	Description	Est. Weight	Price
178501	Adapter, USB Serial FTDI US232R-100, 3.28 ft, iDim Series for use with Rice Lake indicator and Postal Scales	-	$60.00
22436	Cable DB9F to blunt end, 6 ft	1 lb	$70.00

DB-9 PIN Assignments:				
PIN	**Assignment**		**PIN**	**Assignment**
1	CD		6	DSR
2	RXD		7	RTS
3	TXD		8	CTS
4	DTR		9	RI
5	GND			



DB9 (Male) Connector

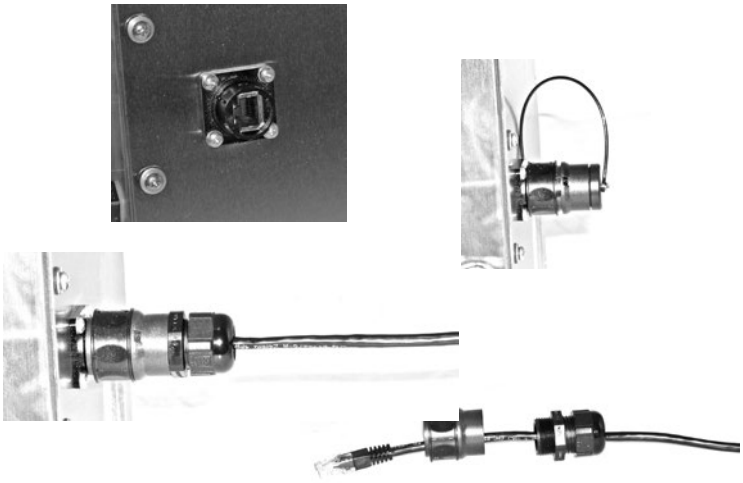


Type A USB Connector

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Amphenol® RJF 544

Harsh Environment Ethernet Connection System



Standard Features

- Allows an Ethernet Class D/Category 5e connection for 10Base-T, 100Base-TX, or 1000Base-T networks in harsh environments
- Sealed against fluids and dusts (IP67)
- Shock, vibration and traction resistant
- No cabling operation in the field
- No tools required
- Improved EMI protection
- Uses a standard RJ-45 cordset in protective composite plug to protect from shocks, dust and fluids
- In-field cabling and grounding not necessary

Specifications

Data Transmission:
10Base-T, 100Base-TX and 1000Base-T networks Category 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801

Mechanical:
Quick push/pull coupling
RJ-45 cordset retention in the plug: 100N in the axis
Mating cycles: 500 min

Environmental Protection:
Sealing: IP67
Salt Spray: > 1000h
Fire retardant/low smoke: UL94 V0 and NFF 16 16102, DIN 5510-2
Vibrations: 10 to 500 Hz, 10g, 3 axes: no discontinuity > 10 nanos
Thermal Shock: 5 cycles at -40 °C / +100 °C

Temperature:
Operating:
-40 °F to 185 °F (-40 °C to 85 °C)

Applications:
Telecom equipment, video control, robotics, industrial process control, CNC machines, motion control, tele-maintenance

Part Number/Price

Part #	Description	Price
87326	RJF 544 kit	$200.00
87285	Square flange female connector	$45.00
87286	Dust cap for harsh environment receptacles	$55.00
87287	Gasket for harsh environment receptacles	$5.25
87288	Ethernet plug	$45.00
87289	Dust cap for harsh environment plugs	$65.00

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AbleCable®

Serial Adapter RS-232 Cable to USB



Part Number/Price

Part #	Description	Est. Weight	Price
119919	RS-232/USB serial cable	1 lb	$190.00
132452	RS-232/USB serial cable plus Bluetooth®	1 lb	$275.00

Options/Accessories

Part #	Description	Price
119064	Slimline null modem, gender changer DB9 female to female	$12.50
22436	Blunt-end to DB9 female, straight cable	$70.00
50749	DB9 female to DB9 female	$60.00
130789	Null model DB9 adapter female to male	$14.50

Standard Features

- Converts serial data such as bar code reader or scale into keyboard input to software program
- Works with PC and MAC® computers
- Requires no driver installation (identifies itself as additional HID keyboard)
- Cable draws power from USB port (no external power supply needed)
- Test cable to be connected with adapter scale cable or connector
- Bluetooth® version allows connection to devices such as iPad® or Android® tablets and phones

Specifications

Power:
USB power, no external power supply

Baud Rate:
9600

Color:
Black

Cable Length:
74 in (1,880 mm)

Bluetooth Cable Length:
16 in (406 mm)

Host:
PC and MAC compliant

Connection:
DB9 male connector

Pin Out:
Pin 2: RX
Pin 3: TX
Pin 5: Ground USB-A

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Standard Features

- LED onboard for testing data transmission
- Captures data and stores it on a USB flash drive (up to 8 GB not included)
- Transfer data to your PC using the USB flash drive
- Text file examples (actual text will be dependent on transmitted file)
- 02:50PM
  11/13/2012
  GROSS 58 lb
- 02:50PM
  11/13/2012
  GROSS 68 lb

Specifications

Power:
Requires 5 VDC, 2 A

Baud Rate:
9600

Data Bits:
8

Parity:
None

Customer Supplied:
Power and USB flash drive

Industrial Enclosure Option:
7.5 × 7.5 × 4.5 in
(19 × 19 × 12 cm)
Latch for lock

Warranty:
One-year limited

Part Number/Price

Part #	Description	Price
153265	go-between board	$435.00
153266	go-between industrial enclosure	$630.00
153267	go-between desk enclosure	$525.00
158778	go-between desk enclosure, EU power supply	$525.00

Options and Accessories

Part #	Description	Price
154797	Adapter, power 5 VDC 2A 90-264 VAC, U.S. plug, UL/cUL	$37.00
170935	Overlay, desk	$79.00

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Hazardous Location Instrumentation

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Explosion-proof Remote Serial Display

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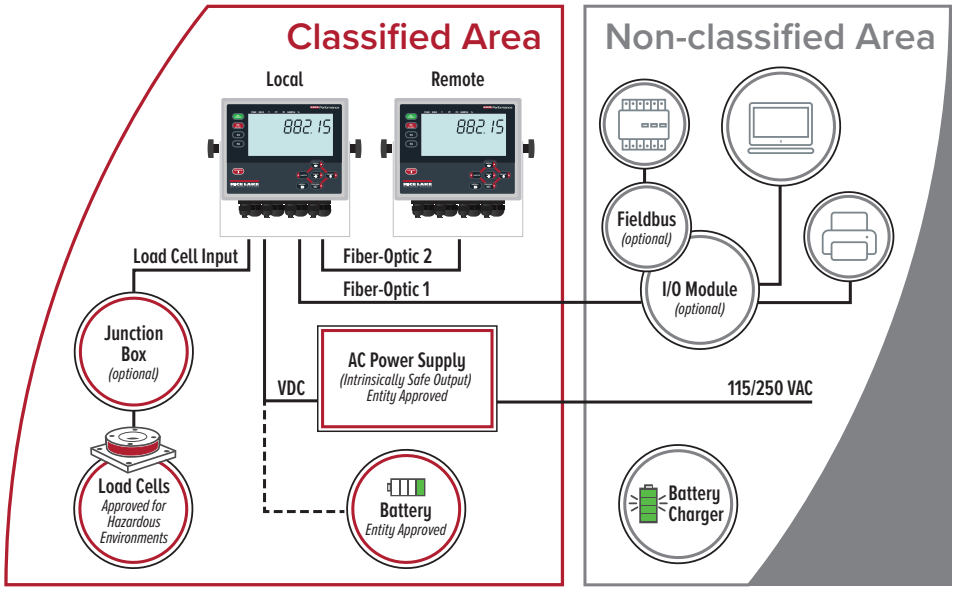
Explosive Environment Equipment Policy

> ⚠ Caution: The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

Rice Lake Weighing Systems has assembled the very best intrinsically safe and explosion-proof equipment. In order to properly specify, install and service this equipment, it is necessary that our distributors understand and appreciate the possible risks involved.

Persons involved in selection and installation of intrinsically safe equipment should have knowledge of but not limited to the following:

- Explosive environment designations: Class, Division and Group
- Standards and codes applicable to hazardous environment equipment
- Equipment liability
- Theory of intrinsically safe, explosion-proof and purged systems
- Equipment specification guidelines
- Proper installation procedures
- Service precautions
- NFPA 70, "National Electrical Code (NEC) Handbook"
- NFPA 496, "Classification of Gases, Vapors, and Dusts for Electrical Equipment in Hazardous (Classified) Locations"
- ANSI/UL 913, "Standard for Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II and III, Division 1 Hazardous Locations"
- ANSI/ISA RP 12.6, "Installation of Intrinsically Safe Instrument Systems for Hazardous (Classified) Locations"



- FM Approval Standard 3610, "Approval Standard, Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II and III, Division 1 Hazardous Locations"
- FM Approval Standard 3615, "Approval Standards, Explosion Proof Electrical Equipment"
- "Electrical Installations in Hazardous Locations"

Plant Safety Engineers and Certified Electricians should always be involved in the specification and installation of any explosive environment equipment.

Please see Hazardous Area Classification on page 567 for assistance in selecting hazardous area control equipment for your application requirements.

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Hazardous Area Classification

The distributor is responsible for either maintaining a permanent, traceable record of the equipment location (the end user) or returning this form to Rice Lake Weighing Systems with signatures from the distributor and the end user's hazardous or classified area defining authority.

For assistance in selecting hazardous area control equipment for your application requirements, please complete this form and submit, along with a description of the application, to:

Rice Lake Weighing Systems
Attn: Hazardous Environment
230 West Coleman Street, Rice Lake, WI 54868
Telephone: 715-234-9171 • Fax: 715-234-6967

For Rice Lake Office Use Only

RLWS File #: Date:
Sales Order #: Checked by:
Equipment PN(s):
Serial(s):
Factory Mutual Not Applicable:
(International Orders Only):

Rice Lake Distributor Information

Distributor Name: Customer Number:
Address:
City: State: Zip:
(Use two-letter abbreviation)
Telephone: Fax:
Contact Name: Date:
(Print) *(Signature)*
Authorized Sign.: Date:
(Print) *(Signature)*

End User Information

End User Name:
Address:
City: State: Zip:
(Use two-letter abbreviation)
Telephone: Fax:
Contact Name: Date:
(Print) *(Signature)*
Authorized Sign.: Date:
(Print) *(Signature)*
Title:

The following information is to be defined by the END USER'S plant safety engineer or other authorized party.

Hazardous Area Classification:

Class/Division: Class Division Group Temperature Class
Zone: Zone Group Temperature Class
Specific Hazard/Material:
Defining Individual: Date:
(Print) *(Signature)*
Defining Individual (Title):

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RICE LAKE | 567

Hazardous Area Classification

RICE LAKE WEIGHING SYSTEMS

Additional Application Questions

What are the requirements for the application?

What type of scale? *(Floor / Bench / Truck / Mounts)*

Is a remote display needed? ☐ *Yes* ☐ *No*

What communications are needed?

What functions are needed in the Safe Area?

What functions are needed in the Hazardous Area?

Hazardous Area: Class ____ Division ____ Group ____

What weight indicator is being used? *(for barriers)*

What is the distance from the Hazardous Area to the Safe Area?

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Explosive Environment Solutions

⚠ Caution: The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

EXPLOSION-PROOF SYSTEM

What is an explosion-proof indicator?

It is simply a digital weight indicator enclosed in a special case. The purpose of an explosion-proof indicator is not, as the name suggests, to protect the indicator. Instead, the case prevents any explosion WITHIN the case from causing subsequent fire or explosion in the surrounding atmosphere.

For example, in a grain elevator application, combustible dusts (Class II hazardous atmosphere) may be present. A spark in a non-explosion-proof indicator could ignite an elevator-wide explosion. However, with an explosion-proof indicator, the spark (or even an explosion) is contained within the case. The hazardous atmosphere cannot be ignited, and the elevator is protected.

ADVANTAGES

- Explosion containment
- Requires low maintenance
- No electronics
- No moving parts

DISADVANTAGES

- Cannot indicate failure of containment capability
- Cost of protection per cubic foot increases with enclosure size
- Promotes condensation
- Cumbersome, limited access
- Causes harmful heat buildup
- Limited sizes
- Bulky designs
- Excessive weight

PURGED SYSTEM

Purged systems are ideal for hazardous environments and use positive pressure to prevent particles, gases and fibers from entering the controller enclosure. As an added safeguard, a differential pressure switch automatically cuts off power when the pressure falls below the acceptable level. Type X, Y and Z purging hardware is available that meets National Fire Protection Association (NFPA) article 496 guidelines.

The three configurations are as follows:

Type X Pressurizing: Reduces the classification within the protected enclosure from Division 1 to Safe.

Type Y Pressurizing: Reduces the classification within the protected enclosure from Division 1 to Division 2.

Type Z Pressurizing: Reduces the classification within the protected enclosure from Division 2 to Safe.

ADVANTAGES

- Reduces heat buildup
- Inhibits metal corrosion
- Requires low maintenance
- Increases equipment longevity
- Allows fast access to equipment
- Reduces moisture and dust buildup
- Reduces classification within enclosure
- Continuous system status indication
- Protects enclosures up to 450 cubic feet
- Allows use of any enclosure shape
- Cost of protection per cubic foot decreases with enclosure size

DISADVANTAGES

- Contains moving parts
- Requires instrument air supply
- Some systems contain electronics
- Some systems require electrical power

INTRINSICALLY SAFE BARRIER SYSTEM

Intrinsically safe load cells and safety barriers take the explosion proof principle a step further. Intrinsic safety ensures the indicator's electrical wiring and components are, by design, incapable of releasing enough energy to ignite flammable or combustible atmospheric mixtures in their most easily ignitable concentrations. In short, an intrinsically safe device eliminates the conditions for an explosion, no matter what the circumstances.

ADVANTAGES

- Limits energy to device
- Requires low maintenance
- No moving parts
- Ideal for sensors

DISADVANTAGES

- One barrier is required for each conductor
- Project cost increases with number of conductors
- Offers no protection against heat, moisture and dust
- Requires protection or installation in nonclassified area
- 24 VDC, 50 mA maximum power and signal strength limit

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Hazardous Atmospheres

(for reference only)

Hazardous atmospheres are divided into three general classes and two divisions:

CLASS I:
Flammable gases or vapors

CLASS II:
Combustible dusts

CLASS III:
Ignitable fibers or flyings

DIVISION 1:
Hazard exists under normal conditions

DIVISION 2:
Hazardous material is handled, processed or stored. Hazard is not normally present, but may be released due to accident or equipment malfunction.

CLASS I:
Flammable Gases or Vapors

CLASS I, GROUP A:
- Acetylene

CLASS I, GROUP B:
- Acrolein (inhibited)
- Arsine
- Outadiene
- Ethylene oxide
- Hydrogen
- Manufactured gases containing more than 30% hydrogen by volume
- Propylene oxide
- Propylnitrate

CLASS I, GROUP C:
- Acetaldehyde
- Allyl alcohol
- N-butyraldehyde
- Carbon monoxide
- Crotonaldeghyde
- Cyclopropane
- Diethyl ether
- Diethylamine
- Epichlorohydrin
- Ethylene
- Ethylenimine
- Ethyl mercaptan
- Ethyl sulfide
- Morpholine
- 2-nitropropane
- Tetrahydrofuran
- Unsymmetrical dimethyl hydrazine
- (UMDH 1, 1-dimethyl hydrazine)

CLASS I, GROUP D:
- Acetic acid
- Acetone
- Acrylonitrile
- Ammonia
- Benzene
- Butane
- 1-butanol (butyl alcohol)
- 2-butanol (secondary butyl alcohol)
- N-butyl acetate
- Isobutyl acetate
- Di-isobutylene
- Ethane
- Ethanol (ethyl alcohol)
- Ethyl acetate
- Ethyl acrylate (inhibited)
- Ethylene diamine (anhydrous)
- Ethylene dichloride
- Ethylene glycol monomethyl ether
- Gasoline
- Heptanes
- Hexanes
- Isoprene
- Isopropyl ether
- Mesityl oxide
- Methane (natural gas)
- Methanol (methyl alcohol)
- 3-methyl 1-butanol (isoamyl alcohol)
- Methyl ethyl ketone
- 2-methyl 1-propanol (isobutyl alcohol)
- 2-methyl 2-propanol (teriary butyl alcohol)
- Petroleum naptha
- Pyridine
- Octanes
- Pentanes
- 1-pentanol (amyl alcohol)
- Propane
- 1-propanol (propyl alcohol)
- 2-propanol (isopropyl alcohol)
- Propylene
- Styrene
- Toluene
- Vinyl acetate
- Vinyl chloride
- Xylenes

CLASS II:
Combustible Dusts

CLASS II, GROUP E:
Atmospheres containing:
- Aluminum, magnesium or their commercial alloys
- Metals of similarly hazardous characteristics with a resistivity of 100 ohm per centimeter

CLASS II, GROUP F:
Atmospheres containing:
- Carbon black, charcoal, coal or coke dusts containing more than 8 percent total volatile material
- Dusts sensitized by other materials, presenting an explosion hazard and having a resistivity greater than 100 ohm per centimeter and equal to or less than 100 megohm per centimeter

CLASS II, GROUP G:
Atmospheres containing:
- Flour
- Starch
- Grain
- Combustible plastics or chemical dusts having resistivity greater than 1 megohm per centimeter

CLASS III:
Ignitable Fibers or Flyings

Atmospheres containing:
- Rayon
- Cotton
- Other textiles

Combustible fiber manufacturing and processing plants such as:
- Cotton gins
- Cottonseed mills
- Flax processing plants
- Clothing manufacturing plants
- Sawmills
- Other woodworking locations

Easily ignitable fibers including:
- Rayon
- Cotton (including cotton linters and cotton wastes)
- Sisal or henequen
- Istle
- Jute
- Hemp
- Tow
- Cocoa
- Oakum
- Baled waste kapok
- Spanish moss
- Excelsior
- Sawdust
- Wood chips

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NEW
Improved
Fiber Optic Distance
2nd Fiber Port



Approvals

Measurement Canada Approved · OIML · EU LEGAL FOR TRADE CERTIFIED · CE · UKCA · c UL us LISTED · FM APPROVED · IECEx

*UL is only applicable to 882IS I/O and battery charger

Standard Features

- Two fiber optic ports with communication up to 500 ft
- LCD display with white LED backlight
- T4 temperature rating
- Battery life display icon
- Numeric keypad (882IS Plus)
- Dual duplex fiber-optic interface
- Power ON/OFF; battery save mode
- Configurable local/remote mode
- I/O module option: one serial port, optional analog output, optional fieldbus cards, Ethernet TCP/IP
- Time and date (requires I/O module)
- Setpoint functionality using secondary 920i® indicator
- FM Entity Approved for use in hazardous locations per Rice Lake Weighing Systems control drawing file number 221416

Rice Lake Weighing Systems warrants that all Rice Lake Weighing Systems intrinsically safe (IS) equipment and systems installed by a qualified electrician will operate per written specifications as confirmed by the distributor/OEM and accepted by. All systems and components are warranted against defects in materials and workmanship for one year. All Rice Lake intrinsically safe equipment carries a Factory Mutual approval and is documented on various control drawings. Each device is manufactured by Rice Lake factory authorized personnel. To preserve the warranty and Factory Mutual approval, all repairs or replacement of circuit boards or components housed within the enclosures must be performed by Rice Lake factory authorized personnel.

⚠ CAUTION! The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

Specifications

Power:
Input: 5.8 to 7.9 VDC, 100 to 175 mA
Power Consumption:
0.25 W
Battery (optional):
60 hours with 4 × 350 ohm load cells
80 to 100 hours with 1 × 350 ohm load cell
8 to 10 hour charging time
Load Cell Excitation:
3.0 VDC at 87.5 ohm, 4.6 VDC at 700 ohm
Load Cell Current:
34 mA 4 × 350 ohm load cells or 8 × 700 ohm load cells
Load Cell Cabling:
Four- and six- wire with remote sensing (recommended)
Analog Signal Input Range:
-0.5 mV/V to 4.0 mV/V
Analog Signal Sensitivity:
0.2 µV/graduation minimum
1.5 µV/graduation recommended
Resolution:
Internal: 1,000,000 counts
Display: 10,000
The maximum number of allowed graduations will vary by application
Conversion Rate:
60 updates/second
Annunciators:
Center of zero, gross, net, motion, lb, kg, oz, g
Motion Band:
Configurable to ± 1 or ± 3 graduations, 1 second delay (or Off)
Display Increments:
1, 2, 5
Display:
Seven-digit, seven-segment LCD display 121 × 24 dot matrix messaging area with white LED backlight
Keys/Buttons:
Flat membrane panel, tactile feel
882IS: Zero, Gross/Net, Tare, Print, Units Conv, Start, Stop
882IS Plus: Zero, Gross/Net, Tare, Print, Units Conv, Start, Stop, full numeric keypad
Optical Ports:
Physical Medium: 2.2 plastic fiber @ 640 nm
Max Transmission Length: 500 ft (152 m)
Transmission Type: Full duplex
Temperature:
Operating: 14 °F to 104 °F (-10 °C to 40 °C)
Rating/Material:
IP66 enclosure
Stainless steel
Weight:
6.1 lb (2.8 kg)
Warranty:
One-year limited
Intrinsic Safety:
FM/cFMus
Class I, II, III, Division 1, Groups ABCDEFG T4
Class I, Zone 0 AEx/Ex ia IIC T4 Ga
Zone 21 AEx/Ex ib IIIC T135°C Db
Ta = -10 °C to 40 °C (14 °F to 104 °F)
ATEX/IECEx
II 1 G Ex ia IIC T4 Ga
II 2 D Ex ib IIIC T135°C Db
Approvals:
NTEP 19-015
Measurement Canada AM-6124C
OIML R76/2006-A-NL1-21.11
EU Type Eval Certificate T11166
CE Listed
UKCA
cULus Listed*
cFMus Approved
EX-ATEX
IECEx
**cULus is only applicable to 882IS I/O and battery charger*

HAZARDOUS LOCATION INSTRUMENTATION

882IS/882IS Plus

Intrinsically Safe Digital Weight Indicator

Part Number/Price

Part #	Description	Price
882IS		
195091	882IS 7.5 VDC with standard tilt stand	$1,845.00
185288†	882IS with battery and charger (North American plug)	$2,945.00
194231††	882IS with battery and charger (EU plug)	$2,945.00
194232†††	882IS with battery and charger (UK plug)	$2,945.00
196273††††	882IS with battery and charger (AU plug)	$2,945.00
185290	882IS with power supply with 10 ft cable	$3,245.00
194235	882IS indicator with power supply and metric thread adapter	$3,245.00
882IS Plus		
195092	882IS Plus 7.5 VDC with standard tilt stand	$1,845.00
185291†	882IS Plus with battery and charger (North American plug)	$2,945.00
194233††	882IS Plus with battery and charger (EU plug)	$2,945.00
194234†††	882IS Plus with battery and charger (UK plug)	$2,945.00
196274††††	882IS Plus with battery and charger (AU plug)	$2,945.00
185293	882IS Plus with power supply	$3,245.00
194236	882IS Plus indicator with power supply and metric thread adapter	$3,245.00

Parts/Accessories

Part #	Description	Price
180831	Battery option, IS6V2	$845.00
194191†	Battery charger, IS6V2, 100-240 VAC NEMA 5-15 (North American plug)	$345.00
194189††	Battery charger, IS6V2 100-240 VAC (EU plug)	$345.00
194192†††	Battery charger, IS6V2 100-240 VAC (UK plug)	$345.00
197591††††	Battery charger, IS6V2 100-240 VAC (Australian plug)	$345.00
180837	Power supply, 882IS mb-EPS-100-240-X2, dual output 6.8 VDC 200 mA	$1,295.00
195109	Power supply, 882IS mb-EPS-100-240-X2, dual output 6.8 VDC 200 mA, 1/2 in NPT-M20	$1,345.00
179668	Cable, M12 power 22 in hazardous location (for battery version)	$95.00
179669	Cable, M12 power 10 ft hazardous location	$195.00
179670	Cable, M12 power 50 ft hazardous location	$245.00
179671	Cable, M12 power 100 ft hazardous location	$445.00
190979	Lockout device for M12 cable	$25.00
163751	Tilt stand, 882IS	$45.00
179678	Tilt stand, 882IS battery option	$55.00
177850	Panel mount option, gasketed non-NEMA seal	$255.00
206735	Battery tester, 882IS	$445.00
223864	Knob, Stainless Steel M6 x 1.0 inch	$15.00



† *US plug (NA) - Type B*



†† *Euro Plug - Type E*



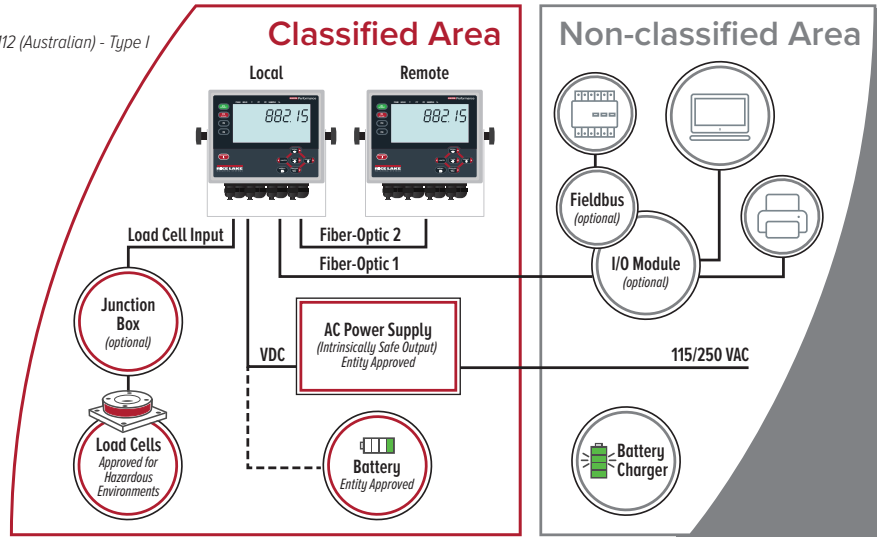
††† *BS1363 (UK) - Type G*



†††† *AS 3112 (Australian) - Type I*



PN 206735 Battery Tester

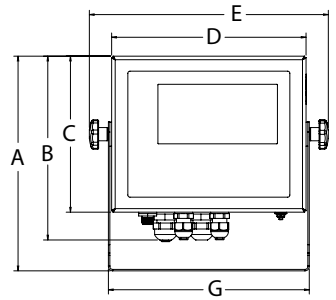


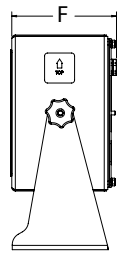
Control drawing part numbers: 221416, 186430, 182301 and archived drawing 180948, are available at www.ricelake.com

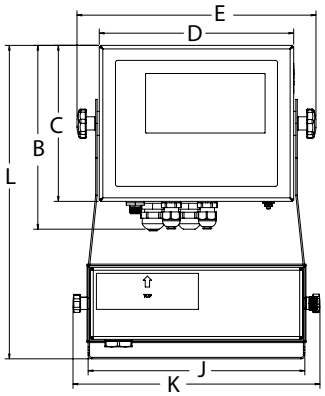
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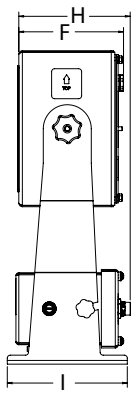
Dimensions

882IS/882IS Plus			
Without Battery			
A	8.94 in (227 mm)	E	9.96 in (253 mm)
B	7.66 in (195 mm)	F	4.36 in (111 mm)
C	6.50 in (165 mm)	G	8.37 in (213 mm)
D	8.10 in (206 mm)		
With Optional Battery and Tilt Stand			
H	4.64 in (118 mm)	K	10.29 in (261 mm)
I	5.00 in (127 mm)	L	13.06 in (332 mm)
J	9.03 in (229 mm)		

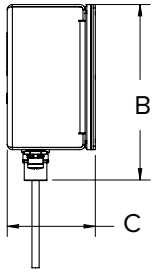


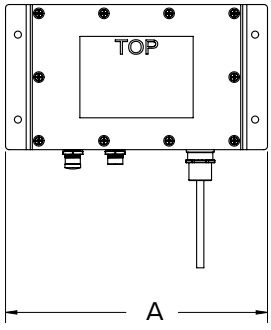






882IS/882IS Plus			
Optional Power Supply			
A	9.25 in (235 mm)	C	3.11 in (79 mm)
B	6.20 in (158 mm)		





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882IS/882IS Plus

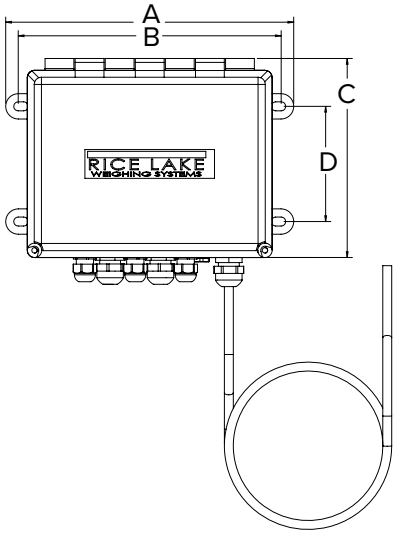
Intrinsically Safe Digital Weight Indicator

Options/Accessories

Part #	Description	Price
Optional Safe Area Modules		
177709	Module, 882 Smart I/O Ethernet fiber optic interface	$1,025.00
196166	Module, 882 Smart I/O (EU power cord)	$1,025.00
196769	Converter, fiber optic to RS-232 , 6 × 6 inch FRP enclosure, external power supply included	$575.00
196770	Converter, fiber optic to RS-422, 6 × 6 inch FRP enclosure, external power supply included	$575.00
78026	Cable, plastic optical 100 ft. includes polishing kit	$185.00
78027	Cable, plastic optical 200 ft. includes polishing kit	$350.00
197384	Kit, polishing POF cable includes 197381 films and 197383 puck	$65.00
Option Cards		
190528	Single analog output (0-10 VDC, 0-20 mA, 4-20 mA)	$425.00
190530	EtherNet/IP™ CompactCom	$620.00
190531	DeviceNet® CompactCom	$620.00
190532	PROFINET CompactCom	$620.00
190534	PROFIBUS® DP CompactCom	$620.00
190533	Modbus TCP CompactCom	$620.00
190535	EtherCAT® CompactCom	$620.00
Remote Indicator for Setpoint Functionality		
203343	920i universal indicator, 115 VAC, no A/D, with 882IS iRite software for setpoints	$3,225.00
203344	920i wall mount indicator, 115 VAC, no A/D, with 882IS iRite software for setpoints - requires fiber convertor (PN 196769 or PN 196770)	$3,895.00

Dimensions

882IS/882IS Plus			
Optional I/O Module			
A	10.00 in (254 mm)	C	6.91 in (176 mm)
B	9.13 in (232 mm)	D	4.00 in (102 mm)







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EL232 XPCD

Explosion-proof Remote Serial Display



NOTE: Custom enclosures as requested. All explosion-proof devices are now built-to-order, so please coordinate purchase of these items with one of our application specialists.

Standard Features

- 20 mA current loop or RS-232 input
- Compatible with most Rice Lake indicators
- NEMA Type 4, 7CD, 9EFG enclosure

Specifications

Input Voltage:
115 VAC, 60 Hz

NEC Classifications:
Class I, Division 1, Groups C & D; Class II, Division 1, Groups E, F & G and Class III hazardous environments

Baud Rate:
1200, 2400, 4800 and 9600

Interfaces:
20 mA current loop and RS-232
Please consult factory for model numbers and interface requirements

Display:
High-intensity, red LED, 0.8 in (20.3 mm) high digits

Weight:
Approximately 60 lb (27.2 kg)

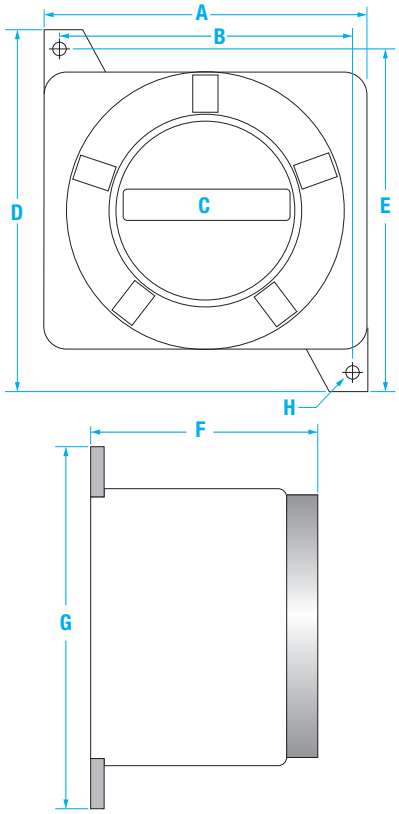
Warranty:
One-year limited

Part Number/Price

Part #	Description	Est. Weight	Price
20904	EL232 XPCD explosion proof remote serial display	60 lb	$7,675.00

Dimensions

EL232 XPCD			
A	10.50 in (266.7 mm)	E	10.50 in (266.7 mm)
B	9.50 in (241.3 mm)	F	7.50 in (190.5 mm)
C	5.81 in (147.7 mm)	G	11.75 in (298.5 mm) (glass diameter)
D	11.75 in (298.5 mm)	H	7/16 in (11 mm) diameter holes



CAUTION! The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

HAZARDOUS LOCATION INSTRUMENTATION

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Intrinsic Safety Barriers



Standard Features

- Each system features excitation, sense and signal barriers
- Available in an enclosure for external mounting or in a chassis mount version
- R Stahl® and Pepperl+Fuchs® barriers that are approved by Factory Mutual (FM)



Specifications

Part #	Voltage Range	Nominal Resistance	Open Circuit Voltage	Short Circuit Current	Classifications
31201: + Excitation 9001/01-158-390-101	+12 VDC	55 ohm	15.8 VDC	390 mA	FM approved, UL listed, CSA certified, SA, CE marked
31202: ± Excitation 9002/10-187-270-001	±6 VDC	46 ohm	9.3 VDC	270 mA	FM approved, UL listed, CSA certified, SA, CE marked
31540: + Excitation 9001/01-083-442-101	+6 VDC	26 ohm	8.3 VDC	442 mA	FM approved, UL listed, CSA certified, SA, CE marked
199867: + Sense 9001/01-086-075-101	+6 VDC	129 ohm	8.6 VDC	41 mA	FM approved, UL listed, CSA certified, SA, CE marked
30263: ± Signal 9002/77-093-040-001	±6 VDC	519 ohm	9.3 VDC	20 mA	FM approved, UL listed, CSA certified, SA, CE marked
31542: RS-232 9002/77-093-300-001	±6 VDC	76.6 ohm	9.3 VDC	150 mA	FM approved, UL listed, CSA certified, SA, CE marked
30264: ± Sense 9002/10-187-020-001	±6 VDC	516.5 ohm	9.33 VDC	20 mA	FM approved, UL listed, CSA certified, SA, CE marked
30266: – Excitation 9001/00-086-390-101	-6 VDC	30 ohm	8.6 VDC	390 mA	FM approved, UL listed, CSA certified, SA, CE marked
69491: – Excitation 9001/02-016-150-111	±0.7 VDC	20 ohm	1.64 VDC	150 mA	FM approved, UL listed, CSA certified, SA, CE marked
69492: + Sense 9001/01-168-020-101	+12 VDC	918 ohm	16.8 VDC	20 mA	FM approved, UL listed, CSA certified, SA, CE marked
69493: – Sense 9001/02-016-015-101	±0.7 VDC	127 ohm	1.64 VDC	15 mA	FM approved, UL listed, CSA certified, SA, CE marked
72521: + Excitation 9001/01-199-390-101	+16 VDC	67 ohm	19.9 VDC	390 mA	FM approved, CSA certified, CE marked
30265: + Excitation 9001/01-086-390-101	+6 VDC	30 ohm	8.6 VDC	390 mA	FM approved, CSA certified, CE marked
221779: + Excitation Z713	+13.7 VDC	22 ohm	15.75 VDC	160 mA	FM Approved, cULus, ATEX, IECEX
221663: – Excitation Z813	–13.7 VDC	22 ohm	15.75 VDC	160 mA	FM Approved, cULus, ATEX, IECEX
221662: ± EX Z966	±10 VDC	166 ohm	12 VDC	50 mA	FM Approved, cULus, ATEX, IECEX
221660: ± Signal Z961	±6.5 VDC	100 ohm	8.7 VDC	100 mA	FM Approved, cULus, ATEX, IECEX
221661: ± Sense Z964	±10 VDC	1000 ohm	12 VDC	50 mA	FM Approved, cULus, ATEX, IECEX

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Intrinsic Safety Barriers

Part Number/Price

Part #	Description	Est. Weight	Price
R Stahl® Barriers #1: (For models with +5 and -5 Volt excitation (10 volt))			
31202	9002/10-187-270-001, ± Excitation barrier	1 lb	$595.00
30264	9002/10-187-020-001, ± Sense barrier	1 lb	$595.00
30263	9002/77-093-040-001, ± Signal barrier	1 lb	$725.00
109663	DIN rail mounted kit #1 (includes 31202, 30264, 30263)	2 lb	$1,610.00
Barrier Kit #2: (For models with + 10 Volt excitation)			
31201	9001/01-158-390-101, + Excitation barrier	1 lb	$495.00
69491	9001/02-016-150-111, – Excitation barrier	1 lb	$495.00
69492	9001/01-168-020-101, + Sense barrier	1 lb	$495.00
69493	9001/002-016-015-101, – Sense barrier	1 lb	$495.00
30263	9002/77-093-040-001, ± Signal barrier	1 lb	$725.00
Barrier Kit #3: (For models with + 5 Volt excitation)			
31540	9001/01-083-442-101, + Excitation barrier	1 lb	$375.00
69491	9001/02-016-150-111, – Excitation barrier	1 lb	$495.00
30263	9002/77-093-040-001, ± Signal barrier	1 lb	$725.00
If sense leads are required for above, use the following:			
199867	900/01-086-075-101, + Sense barrier	1 lb	$825.00
69493	9001/02-016-015-10, – Sense barrier	1 lb	$495.00
Miscellaneous Barriers:			
30266	9001/00-086-390-101, – Excitation barrier	1 lb	$495.00
30265	9001/01-086-390-101, + Excitation barrier	1 lb	$675.00
72521	9001/01-199-390-101, + Excitation barrier	1 lb	$525.00
197643	9002/22-032-300-111, RS-422 dual channel	1 lb	$850.00
31542	9002/77-093-300-001, RS-232 dual channel	1 lb	$595.00
Pepperl+Fuchs® Barrier Kit #1 for multiple load cell applications:			
221779	Z713 +Excitation barrier	1 lb	$345.00
221663	Z813 –Excitation barrier	1 lb	$745.00
221661	Z964 ± Sense barrier	1 lb	$365.00
221660	Z961 ± Signal barrier	2 lb	$375.00
Pepperl+Fuchs Barrier Kit #2 for single load cell applications:			
221662	Z966 ± Excitation barrier	1 lb	$385.00
221661	Z964 ± Sense barrier	1 lb	$365.00
221660	Z961 ± Signal barrier	2 lb	$375.00

Options/Accessories

Part #	Description	Price
33531	DIN rail, 6 in length 35 mm width × 7.5 mm high	$15.00
35815	Safety barrier instruction sheet	$15.00
110424	IS barrier FRP enclosure, up to 4 barriers (not included)	$295.00
22828	Ground terminal block, universal DIN rail mounted	$25.00
42219	Fuse,IS Barrier 160mA for Stahl barriers	$15.00
208123	Isolator, barrier mount with DIN rail mounting clips	$5.00

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In-motion Weighing

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In-motion Weighing 579

MotoWeigh® IMW In-Motion 580
Checkweighers and Conveyor Scales

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MotoWeigh® Cascade Scale 585
Gravity Drop Checkweigher

MotoWeigh® Integrator 585

A&D Inspection 586
In-motion Checkweighers

RT-M 588
Roller Top Scale

The following product names, logos, brands and other trademarks featured or referred to within this publication are the property of their respective trademark holders.

MotoWeigh® IMW In-Motion

Checkweighers and Conveyor Scales



Approvals

Optional *Optional*

Standard Features

- Packages include: Framework for mounting conveyor scale on same frame as infeed conveyor and indicator, control enclosure to interconnect wiring from photo eyes and divert solenoid and conveyor on/off/E-stop
- NTEP Certified and non-NTEP Certified packages available in stainless steel and aluminum for food and non-food-grade applications

Software

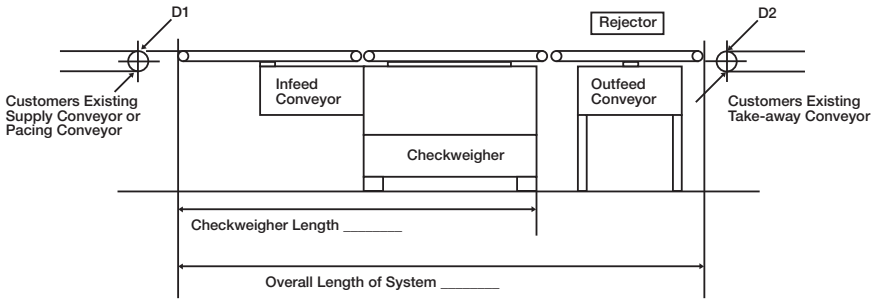
- Password protected user logins
- Real-time statistical information
- Product report
- Statistical report
- Parameter report
- User report
- Store up to 1,000 different products
- Five-zone classification

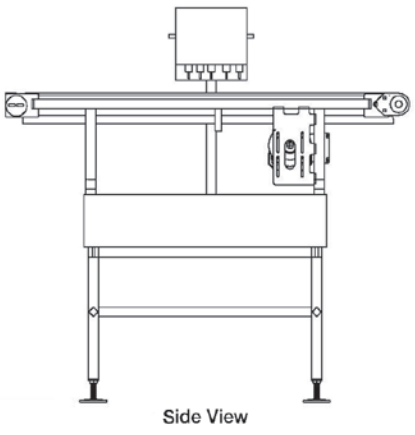
Control Panel

- 1280 controller
- Power disconnect with lock-out/tag-out
- E-stop
- VFD (variable frequency drive)
- Motor overloads

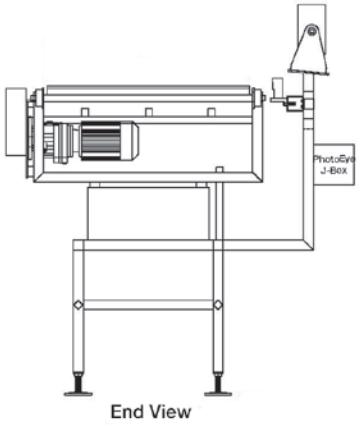
Hardware

- Square tube construction (SST or aluminum)
- 32 in height from top of belt with ±2.5 in of adjustment
- Modular belting





Side View



End View

Options

- Divert methods:
- Pneumatic pusher
- Air blast
- Drop conveyor
- Paddle
- Secondary diverter in series or parallel
- One-, three- or five-zone communication tower
- Audible alarm (non-washdown only)
- Draft shields
- Drop chutes
- Pull cord E-stops
- Portability package (non-NTEP Certified only)
- Conveyor guide rails (round or flat)
- Custom programming available
- Food-grade SST angle construction
- UL 508
- NTEP Certified Legal for Trade (up to 2,000 divisions and 60 ppm)
- Pacing conveyor

Specifications

Power:
110 VAC single phase, 60 Hz
230 to 460 VAC three phase, 60 Hz

Configurations:
Checkweigher
Conveyor scale

Speed:
Up to 240 ft per minute

Container Types:
Boxes, bags, pouches, trays, tubs, cups, blister packs, display packs, clam shells

Belts:
Intralox® Habasit®

Rating/Material:
NEMA Type 4X IP66
Stainless steel food-grade
Stainless steel non-food grade
Aluminum non-food grade

Warranty:
Two-year limited
(excludes powertrain and wear parts)

Approvals:
NTEP 09-007 (optional)
cULus (optional)

Due to the variety of configurations, please consult a sales engineer to discuss application requirements and for complete specifications and price quotations.
Field installation available at pre-determined rates.
Questionnaire available at www.ricelake.com/motoweigh

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Mild Steel ELS

Part Number/Price

Part #	Length	Width	Height	Price
Mild Steel - Overall Product Dimensions				
ELS-250 Kit (Load Rating 500 lbs)				
212655	30 to 60 in	22 to 28 in	22 to 28 in	$3,900.00
212656	30 to 60 in	22 to 28 in	29 to 36 in	$3,900.00
212659	30 to 60 in	29 to 40 in	22 to 28 in	$3,950.00
212660	30 to 60 in	29 to 40 in	29 to 36 in	$3,950.00
212957	30 to 60 in	41 to 58 in	22 to 28 in	$3,950.00
212958	30 to 60 in	41 to 58 in	29 to 36 in	$3,950.00
ELS-500 Kit (Load Rating 1,000 lbs)				
212661	30 to 60 in	22 to 28 in	22 to 28 in	$3,950.00
212662	30 to 60 in	22 to 28 in	29 to 36 in	$3,950.00
212663	30 to 60 in	29 to 40 in	22 to 28 in	$4,000.00
212665	30 to 60 in	29 to 40 in	29 to 36 in	$4,000.00
212953	30 to 60 in	41 to 58 in	22 to 28 in	$4,000.00
212954	30 to 60 in	41 to 58 in	29 to 36 in	$4,000.00
ELS-1000 Kit (Load Rating 2,000 lbs)				
212666	30 to 60 in	22 to 28 in	22 to 28 in	$4,100.00
212667	30 to 60 in	22 to 28 in	29 to 36 in	$4,100.00
212669	30 to 60 in	29 to 40 in	22 to 28 in	$4,150.00
212670	30 to 60 in	29 to 40 in	29 to 36 in	$4,150.00
212949	30 to 60 in	41 to 58 in	22 to 28 in	$4,200.00
212950	30 to 60 in	41 to 58 in	29 to 36 in	$4,200.00
Stainless Steel				
ELS-250 Kit (Load Rating 500 lbs)				
213276	30 to 60 in	22 to 28 in	22 to 28 in	$6,150.00
213278	30 to 60 in	22 to 28 in	29 to 36 in	$6,250.00
213280	30 to 60 in	29 to 40 in	22 to 28 in	$6,300.00
213282	30 to 60 in	29 to 40 in	29 to 36 in	$6,350.00
213283	30 to 60 in	41 to 58 in	22 to 28 in	$6,450.00
213284	30 to 60 in	41 to 58 in	29 to 36 in	$6,550.00
ELS-500 Kit (Load Rating 1,000 lbs)				
213292	30 to 60 in	22 to 28 in	22 to 28 in	$6,200.00
213293	30 to 60 in	22 to 28 in	29 to 36 in	$6,300.00
213294	30 to 60 in	29 to 40 in	22 to 28 in	$6,300.00
213295	30 to 60 in	29 to 40 in	29 to 36 in	$6,400.00
213296	30 to 60 in	41 to 58 in	22 to 28 in	$6,450.00
213297	30 to 60 in	41 to 58 in	29 to 36 in	$6,550.00
ELS-1000 Kit (Load Rating 2,000 lbs)				
213304	30 to 60 in	22 to 28 in	22 to 28 in	$6,200.00
213305	30 to 60 in	22 to 28 in	29 to 36 in	$6,300.00
213306	30 to 60 in	29 to 40 in	22 to 28 in	$6,300.00
213307	30 to 60 in	29 to 40 in	29 to 36 in	$6,400.00
213308	30 to 60 in	41 to 58 in	22 to 28 in	$6,450.00
213309	30 to 60 in	41 to 58 in	29 to 36 in	$6,550.00

NOTE: Height is the floor to top mounting plate measurement
Width and Height adjustable in 1 inch increments

Standard Features

- Adjustable height and width in 1-in increments
- Mild or stainless steel frame
- Individual load cell overload protection
- Jack bolts in leveling feet for easy conveyor height alignment
- Kit includes: two stands, load cells, junction box, two adjustable stabilizing braces, leveling shims and hardware

Options

- Mild or stainless steel indicator stand
- Additional single ELS weigh stand
- Additional stabilizing brace kit

**Rollers and conveyors are not included and are from other manufacturers*

Specifications

Load Cell:
Four RL32018 or RL32018S single-ended beam: 250 lb, 500 lb and 1,000 lb capacity

Cable Length:
25 ft

Warranty:
Two-year limited

Approvals:
Load cells are FM approved

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ELS Series

Elevated Load Cell Stands

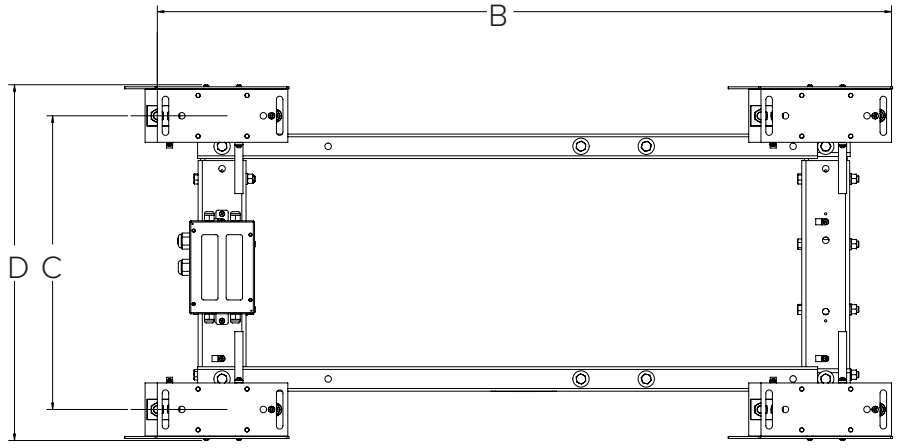
Options/Accessories

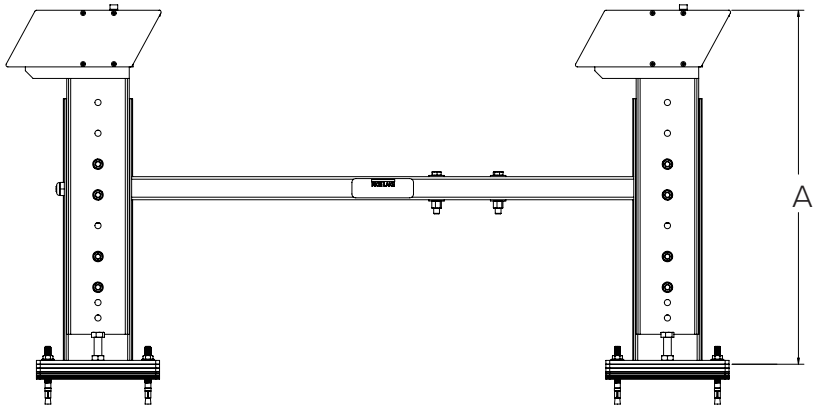
Part #	Description	Price
19352	Indicator floor stand mild steel, 36.3 in high	$250.00
28740	Indicator floor stand SST, 36.3 in high	$340.00
Consult	Single ELS weigh stand	Consult
213229	Additional stabilizing brace kit mild steel	$300.00
213316	Additional stabilizing brace kit stainless steel	$550.00

Dimensions

	Kit Variation	Minimum Dimension	Maximum Dimension
A	Small	22 in (55.88 cm)	28 in (71.12 cm)
	Large	29 in (73.66 cm)	36 in (91.44 cm)
B	All	30 in (76.20 cm)	60 in (152.40 cm)
C	Small	17 in (43.18 cm)	24 in (60.96 cm)
	Medium	25 in (63.50 cm)	36 in (91.44 cm)
	Large	37 in (93.98 cm)	54 in (137.16 cm)
D	Small	22 in (55.88 cm)	28 in (71.12 cm)
	Medium	29 in (73.66 cm)	40 in (101.60 cm)
	Large	41 in (104.14 cm)	58 in (147.32 cm)

Dimensions A, C and D are adjustable in one inch increments





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MotoWeigh® Metal Detector



Approvals

Part Number/Price

Part #	Main Systems	Price
Consult	Please consult factory for configuration and pricing	Consult

Options/Accessories

Part #	Main Systems	Price
200804	Caster package, MotoWeigh set of 4 - 2 swivel and 2 fixed casters for MotoWeigh metal detection conveyors	$4,900.00
186279	Information tower includes buzzer	$1,500.00
186280	Remote electronics with up to 100 ft of cable	$1,315.00
186281	AC power conditioner in NEMA Type 4X enclosure	$3,040.00
186282	PLC module for Ethernet/IP™ interface (factory installed only)	$2,410.00
186284	Preventive kit	$1,010.00
Ferrous (Mild Steel) Test Wands		
168370	1.0 mm ferrous (mild steel) test wand	$19.25
168383	1.2 mm ferrous (mild steel) test wand	$19.25
168384	1.5 mm ferrous (mild steel) test wand	$19.25
168385	1.8 mm ferrous (mild steel) test wand	$19.25
168386	2.0 mm ferrous (mild steel) test wand	$19.25
168387	2.2 mm ferrous (mild steel) test wand	$19.25
168388	2.5 mm ferrous (mild steel) test wand	$19.25
168389	2.8 mm ferrous (mild steel) test wand	$19.25
168390	3.0 mm ferrous (mild steel) test wand	$19.25
168391	3.1 mm ferrous (mild steel) test wand	$19.25
168392	3.25 mm ferrous (mild steel) test wand	$19.25
168393	3.5 mm ferrous (mild steel) test wand	$19.25
168394	4.0 mm ferrous (mild steel) test wand	$19.25
168395	4.5 mm ferrous (mild steel) test wand	$19.25
Non-Ferrous (Brass) Test Wands		
168411	1.0 mm non-ferrous (brass) test wand	$19.25
168413	1.2 mm non-ferrous (brass) test wand	$19.25
168414	1.5 mm non-ferrous (brass) test wand	$19.25
168415	1.8 mm non-ferrous (brass) test wand	$19.25
168416	2.0 mm non-ferrous (brass) test wand	$19.25
168418	2.2 mm non-ferrous (brass) test wand	$19.25
168420	2.5 mm non-ferrous (brass) test wand	$19.25
168421	2.8 mm non-ferrous (brass) test wand	$19.25
168422	3.0 mm non-ferrous (brass) test wand	$19.25
168423	3.2 mm non-ferrous (brass) test wand	$19.25
168424	3.5 mm non-ferrous (brass) test wand	$19.25
168425	4.0 mm non-ferrous (brass) test wand	$19.25
168426	4.5 mm non-ferrous (brass) test wand	$19.25
168427	5.0 mm non-ferrous (brass) test wand	$19.25

Standard Features

Software

- Four levels of security
- Easy setup and product learning
- Easily change product boundaries/rejection
- One touch log reporting
- Eight fields of data recorded on large hard drive
- USB, Ethernet and RS485 communication ports
- Store up to 97 unique IDs
- English or Spanish

Hardware

- 7-in color touchscreen interface
- 304 stainless steel construction
- NEMA Type 4X, 304 stainless steel housing and enclosure
- IP66 rated
- Easily removable belt
- Adjustable foot pads or optional casters
- Single-point junction box
- Anti-static UHMW slider bed
- Variable speed control

Options

- Reject mechanism
- Paddle
- Linear
- Drop
- Lock box
- IP69K
- Ferrous, non-ferrous and 316 stainless steel test wands; individual wands and kits
- LED communication tower
- Audible alarms
- Caster package
- Guide rails
- AC power conditioner

Specifications

Power Requirements:
100 to 240 VAC, 50/60 Hz

Display:
7-in color touchscreen

Inputs:
Eight configurable (for photo eyes, remote emergency stop, etc.) that can be set to active high or active low

Outputs:
Nine programmable (for reject mechanism, system faults, system warnings, etc.)

Language Support:
English and Spanish

Speed:
Up to 120 ft/minute depending on configuration

Temperature:
Operating: 14 °F to 120 °F (-10 °C to 49 °C)
Storage: 14 °F to 175 °F (-10 °C to 80 °C)

Operating Altitude:
Max: 6,561 ft (2,000 m)

Rating/Material:
304 stainless steel

Approvals:
Intertek
CE

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MotoWeigh® Metal Detector

Options/Accessories

Part #	Main Systems	Price
316 Stainless Steel Test Wands		
168428	1.5 mm 316 stainless steel test wand	$19.25
168429	1.8 mm 316 stainless steel test wand	$19.25
168430	2.0 mm 316 stainless steel test wand	$19.25
168431	2.2 mm 316 stainless steel test wand	$19.25
168432	2.5 mm 316 stainless steel test wand	$19.25
168433	2.8 mm 316 stainless steel test wand	$19.25
168434	3.0 mm 316 stainless steel test wand	$19.25
168435	3.1 mm 316 stainless steel test wand	$19.25
168436	3.4 mm 316 stainless steel test wand	$19.25
168437	4.0 mm 316 stainless steel test wand	$19.25
168438	4.5 mm 316 stainless steel test wand	$19.25
168439	5.0 mm 316 stainless steel test wand	$19.25
168440	5.5 mm 316 stainless steel test wand	$19.25
168441	6.0 mm 316 stainless steel test wand	$19.25
Test Wand Kits		
168445	Master kit (ferrous 1.0 to 4.5 mm, non-ferrous 1.0 to 5 mm, 316 stainless steel 1.5 to 6.0 mm)	$1,500.00
168442	Ferrous kit (1.0 to 4.5 mm)	$500.00
168443	Non-ferrous kit (1.0 to 5.0 mm)	$500.00
168444	316 stainless steel kit (1.5 to 6.0 mm)	$500.00

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MotoWeigh® Cascade Scale

Gravity Drop Checkweigher



Standard Features

Software

- Single part drop detection (part outside of the bag)
- Statistical information
- Store up to 500 different products

Hardware

- Mild steel construction
- Electrostatic dissipative powder coating
- 920i® wall mount
- Air regulator
- Bimba® air cylinders
- MAC® solenoid valves

Options

- LED communication tower
- Audible alarm
- Draft shield

Specifications

Construction:
Mild steel
Stainless steel

Capacity:
1.5 lb (680.4 g)

Maximum Container Size:
(L x W x H)
7.00 × 7.00 × 1.50 in

Accuracy:
±0.00044 lb (0.2 g)

Maximum Product Throughput:
45 parts per minute*

Cylinder Stroke:
1.75 in

**Variable based on product size, cylinder stroke, and scale accuracy*

Part Number/Price

Part #	Main Systems	Price
212750	MotoWeigh Cascade Checkweigher and control panel mild steel	$9,375.00
212751	MotoWeigh Cascade Checkweigher and control panel stainless steel	$10,250.00

Options/Accessories

Part #	Description	Price
185808	Red and green communication tower	$775.00
186577	Red, green and alarm communication tower	$950.00

MotoWeigh® Integrator



Standard Features

Software

- Password protected user logins
- Real-time statistical information
- Product report
- Statistical report
- Parameter report
- User report
- Store up to 1,000 different products
- Five zone classification
- Configurable reject output
- Conveyor control output

Control Panel

- Stainless steel enclosure
- Panel mount
- 24 VDC power supply
- 16 Opto 22 relays
- Terminal blocks for easy wiring

Options

- One, three or five-zone communication tower
- Audible alarm (non-washdown only)

Specifications

Construction:
Stainless steel

Control Panel Size:
16 × 16 × 8 in

Power Configuration:
115 to 230 VAC single phase, 50/60 Hz

Part Number/Price

Part #	Main Systems	Price
206440	1280 panel mount 7 in with MotoWeigh software, with cord grips	$7,600.00
206441	1280 panel mount 12 in with MotoWeigh software, with cord grips	$9,100.00

Options/Accessories

Part #	Description	Price
185803	Alarm communication tower	$435.00
185804	Red communication tower	$480.00
185805	Three-zone communication tower	$1,120.00
185806	Three-zone and alarm communication tower	$1,390.00
185807	Five-zone communication tower	$1,540.00

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A&D Inspection

In-motion Checkweighers



AD-4961 Series Checkweigher

	AD-4961-600-1224 Specifications	AD-4961-2KD-2035 Specifications	AD-4961-6K-3050 Specifications
Capacity	600 g	500 g/2,000 g	6,000 g
Resolution	0.1 g	0.1 g	0.1 g
Construction	IP65 stainless steel construction with ABS resin display	IP65 stainless steel construction with ABS resin display	IP65 stainless steel construction with ABS resin display and stainless steel control box and base
Aperture Sizes	N/A	N/A	N/A
Display	7 in color touchscreen	7 in color touchscreen	7 in color touchscreen
Alarm	Included	Included	Included
Configurations	Checkweigher or conveyor scale	Checkweigher or conveyor scale	Checkweigher or conveyor scale
Speed	Up to 240 ft per minute	Up to 240 ft per minute	Up to 240 ft per minute
Max Throughput	150 pcs per min	150 pcs per min	100 pcs per min
Belts	Food grade urethane belt	Food grade urethane belt	Food grade urethane belt
Belts Width	4.7 in	7.8 in	11.8 in
Conveyor Length	14.2 in	13.7 in	19.6 in
Recorded Items	1,000 items (ten groups × 100 items)	1,000 items (ten groups × 100 items)	1,000 items (ten groups × 100 items)
Communication	Modbus TCP, Modbus RTU, RS-232, Ethernet TCP/IP (PostScript Printer), USB (for PostScript Printer, USB memory, data storage, image import use)	Modbus TCP, Modbus RTU, RS-232, RS-485, Ethernet TCP/IP (PostScript Printer), USB (for PostScript Printer, USB memory, data storage, image import use)	Modbus TCP, Modbus RTU, RS-232, RS-485, Ethernet TCP/IP (PostScript Printer), USB (for PostScript Printer, USB memory, data storage, image import use)
Input/Output	External input for four non-voltage contact points External output for eight relay points	External input for four non-voltage contact points External output for eight relay points	External input for four non-voltage contact points External output for eight relay points
Power Configuration	100 VAC-240 VAC (+10%/-15%) single phase, 50/60 Hz; 180 VA	100 VAC-240 VAC (+10%/-15%) single phase, 50/60 Hz; 180 VA	100 VAC-240 VAC (+10%/-15%) single phase, 50/60 Hz; 180 VA
Operating Temperature	23 °F to 104 °F (-5 °C to 40 °C)	23 °F to 104 °F (-5 °C to 40 °C)	23 °F to 104 °F (-5 °C to 40 °C)
External Dimensions	(L × W × H) 26 × 23.7 × 28.1 in to 33.9 in	(L × W × H) 27.5 × 25.9 × 27.9 in to 33.8 in	(L × W × H) 39.5 × 28.9 × 28.3 in to 34.2 in



Breeze Break



Tower Light



Maintenance Kit

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Part Number/Price

AD-4961A 600g		
Part #	**Checkweigher**	**Price**
220816	EZICheck checkweigher 600 g	$28,495.00
Part #	**Rejector**	**Price**
230988	EZICheck 600 g air jet reject with two nozzles	Consult

Assembly is required

Options/Accessories

Part #	Options/Accessories	Price
221113	EZICheck 600 g breeze break	$1,100.00
230987	Transfer plate, single option AD-4961A-13	Consult
230990	EZICheck maintenance kit	Consult
186320	Maintenance kit 600 g	$4,095.00
203601	EZ caster package	$2,995.00
220817	EZICheck flat guide rails for 600 g weighing conveyor	$950.00
220818	EZICheck flat guide rails for 600 g infeed conveyor	$950.00
221114	EZICheck 600 g lower breeze break	$495.00
176614	EZICheck-01 display stand	$575.00
176612	Tower light 3 zone, must buy display stand PN 176614	$1,185.00

Part Number/Price

AD-4961-2K-2035 2 kg		
Part #	**Checkweigher**	**Price**
220725	EZICheck checkweigher 2 kg	$30,995.00
Part #	**Rejector**	**Price**
220774	EZICheck 2 kg dual channel reject flipper	$15,425.00
221115	Air jet rejector (two nozzles)	$8,845.00
220775	EZICheck 2 kg single channel drop rejector	$8,895.00
220776	Drop rejector stand	$2,000.00

Assembly is required

Options/Accessories

Part #	Options/Accessories	Price
176614	EZICheck-01 display stand	$575.00
176612	Tower light 3 zone, must buy AD-4691-01	$1,185.00
221113	EZICheck-11 upper breeze break	$1,100.00
221116	EZICheck-12 lower breeze break	$800.00
176618	2 kg transfer plate, single	$295.00
176619	2 kg Product guides (infeed and conveyor), set of 2	$1,095.00
176622	CW extension leg kit - set of four (up to 40 in)	$750.00
230990	Maintenance kit 2 kg	Consult
192920	Conveyor connection kit	$51.00
203601	EZ caster package	$2,995.00

Part Number/Price

AD-4961-6K-3050 6 kg		
Part #	**Checkweigher**	**Price**
220777	EZICheck checkweigher 6 kg	$35,995.00
Part #	**Rejector**	**Price**
176609	EZICheck 6 kg push ram rejector	$14,495.00
220778	Flipper rejector	$21,325.00
220779	Drop rejector	$14,995.00

Assembly is required

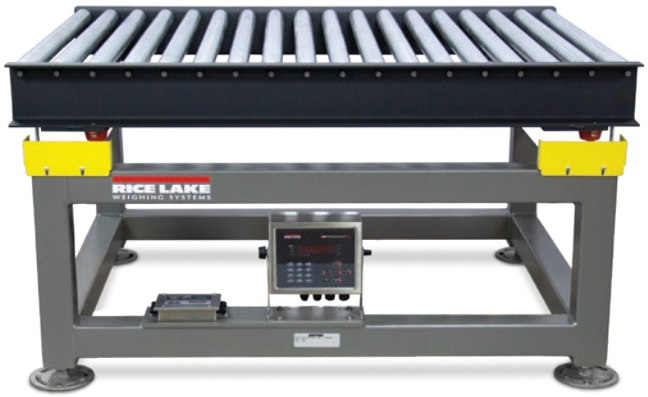
Options/Accessories

Part #	Options/Accessories	Price
176614	EZICheck-01 display stand	$575.00
215272	6 kg product guides, set of 2 (infeed or conveyor)	$1,195.00
215274	6 kg breeze break	$3,095.00
176612	Tower light 3 zone, must buy AD-4691-01	$1,185.00
230992	CW extension leg kit - set of four (up to 40 in)	Consult
186322	Maintenance kit 6 kg	$3,300.00
203601	EZ caster package	$2,995.00

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RT-M

Roller Top Scale



Part Number/Price

Part #	Description	Price
201732	MotoWeigh roller top scale 880 version	$6,900.00
220912	Roller conveyor scale painted 680 version	$6,400.00

** For 880/880 Plus specifications please see page 512*

Standard Features

- Integrated overload protection
- Four load cell system
- Mild steel powder-coated frame
- Non powder-coated rollers
- Consult for custom sizes/capacities

RT-M Specifications

Dimensions:
(L × W × H)
54 × 36 × 30 in with ± 2.5 in height adjustment

Capacity:
100 × 0.05 lb

Approvals:
Not available on RT-M

880 Indicator Specifications

Power:
Line voltages: 100 to 240 VAC

Excitation Voltage:
10 VDC (± 5 VDC), 16 × 350 ohm or 32 × 700 ohm load cells

Digital I/O:
Four I/O onboard, primary keys, pseudo functions, batching functions

Communication Ports:
RS-232 full duplex or RS-485 half duplex; USB micro A/B connector 2.0; Ethernet TCP/IP

Display:
LED, 0.56 in (14 mm), six-digit, 14-segment with decimal or comma

Dimensions:
(L × W × H)
Universal: 9.87 × 4.00 × 9.38 in
(248 × 102 × 235 mm)

Approvals:
NTEP CC 13-080 Class III/IIIL, 10,000 d
Measurement Canada AM-5931C
OIML R76/2006-A-NL1-18.23 Class III, 10,000 d

680 Indicator Specifications

Power:
Line voltages: 100 to 240 VAC
Frequency: 50 to 60 Hz

Excitation Voltage:
10 VDC (± 5 VDC), 8 × 350 ohm or 16 × 700 ohm load cells

Digital I/O:
Four configurable I/O - 5V logic

Communication Ports:
Two RS-232 (three-wire)
RS-485/422 (five-wire)
Micro USB (device)
Ethernet TCP/IP (10/100)

Display:
Seven 0.8 in tall, seven-segment digits

Dimensions:
(L × W × H)
11.58 × 4.05 × 8.57 in
(294 × 103 × 218 mm)

Approvals:
NTEP 19-021, Class III/IIIL, 10,000d
Measurement Canada AM-6121C
OIML R76/2006-A-NL1-19.56

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JB4SS

TuffSeal® Signal Trim Junction Box



Standard Features

- Stainless steel, NEMA Type 4X enclosure
- Jumpers to enable/disable a load cell
- PreVent™ breather vent
- Conformal coated circuit board
- Connect two, three or four single cells
- Expansion port

Applications

- Floor, tank, hopper scales

Specifications

Cable Fittings:
P/N 88956:
(4) PG7 0.118 to 0.255 in strain relief
(2) PG11 0.197 to 0.394 in strain relief
P/N 107700:
(4) PG9 0.138 to 0.315 in strain relief
(2) PG11 0.197 to 0.394 in strain relief

Rating/Material:
NEMA Type 4X
Stainless steel

Connectors:
Spring clamp screwless, 12 to 28 AWG

Trimming:
Individual cell, signal trim

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:
100,000 ohm, 25-turn cermet

Circuit Board:
3.8 × 2.3 in, with conformal coating

Warranty:
One-year limited

Approvals:
cFMus

Approvals

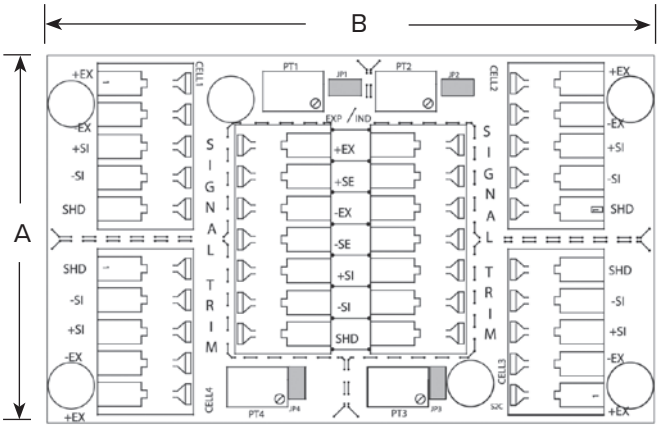
Part Number/Price

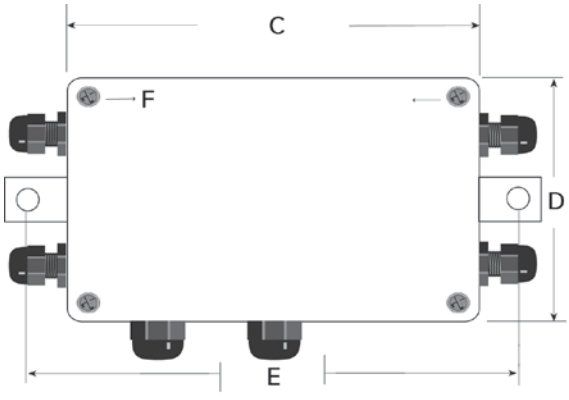
Part #	Description	Price
88956	JB4SS signal trim junction box with PG7 cord grips for load cells	$295.00
107700	JB4SS signal trim junction box with PG9 cord grips for load cells	$310.00
88958	Board only	$175.00
182990	Board only with standoffs	$180.00
165271	Enclosure only (includes cord grips and filter)	$150.00

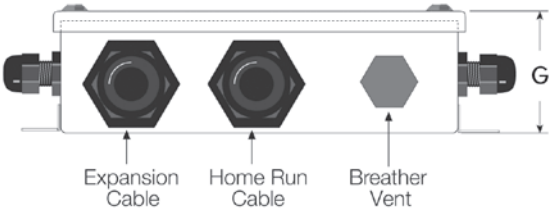
Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Dimensions

JB4SS			
A	2.30 in	E	6.55 in
B	3.80 in	F	0.25 in (4)
C	5.75 in	G	1.60 in
D	4.00 in		







JUNCTION BOXES / SIMULATORS

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JB4ES

TuffSeal® Excitation Trim Junction Box



Standard Features

- Jumpers to enable/disable a load cell
- PreVent™ breather vent
- Conformal-coated circuit board
- Connect two, three or four single load cells
- Expansion port

Applications

- Floor, tank, hopper scales

Specifications

Cable Fittings:
(4) PG7 0.118 to 0.255 in strain relief
(2) PG11 0.197 to 0.394 in strain relief

Rating/Material:
NEMA Type 4X
Stainless steel

Connectors:
Spring clamp screwless, 12 to 28 AWG

Trimming:
Individual cell, excitation trim

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:
100 ohm, 25-turn cermet

Circuit Board:
3.8 × 2.3 in, with conformal coating

Warranty:
One-year limited

Approvals:
cFMus

Approvals

FM APPROVED

TuffSeal®

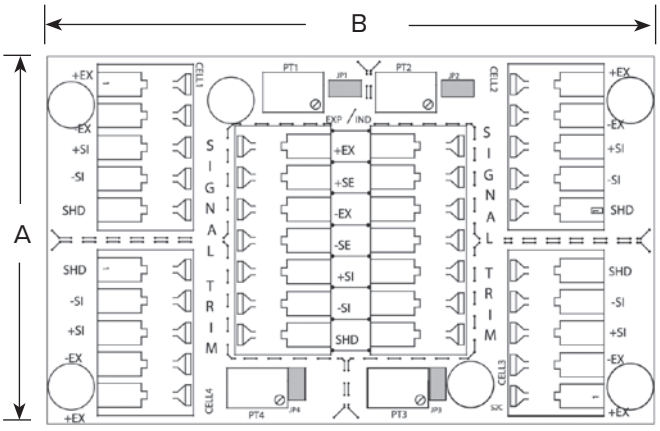
Part Number/Price

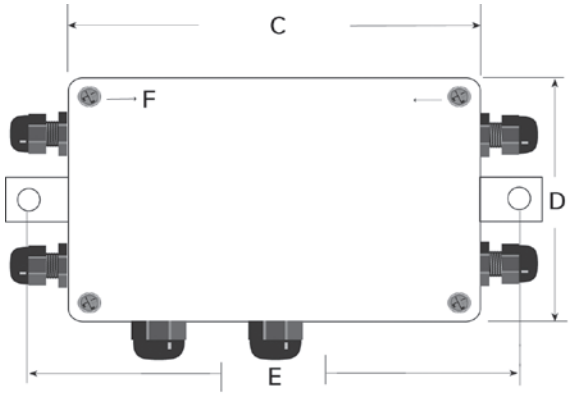
Part #	Description	Price
91779	JB4ES excitation trim junction box	$295.00
89446	Board only	$170.00
165271	Enclosure only (includes cord grips and filter)	$150.00

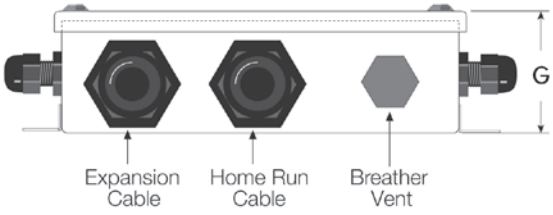
Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Dimensions

JB4ES			
A	2.30 in	E	6.55 in
B	3.80 in	F	0.25 in (4)
C	5.75 in	G	1.60 in
D	4.00 in		







JUNCTION BOXES / SIMULATORS

JB4SP and JB4SPT

TuffSeal® Signal Trim Junction Box



Standard Features

- Jumpers to enable/disable a load cell
- PreVent™ breather vent
- Conformal coated circuit board
- Connect two, three or four single load cells
- Expansion port

Applications

- Tank and hopper scales

Specifications

Cable Fittings:
(4) PG7 0.118 to 0.255 in strain relief
(2) PG11 0.197 to 0.394 in strain relief

Rating/Material:
NEMA Type 4X
Polycarbonate with overlapping solid cover, stainless steel screws

Connectors:
Spring clamp screwless, 12 to 28 AWG

Trimming:
Individual cell, signal trim

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:
100,000 ohm, 25-turn cermet

Circuit Board:
3.8 × 2.3 in, with conformal coating

Warranty:
One-year limited

Approvals:
cFMus

Approvals

FM APPROVED

PN 92762
Not FM approved

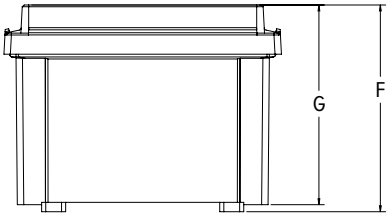
Part Number/Price

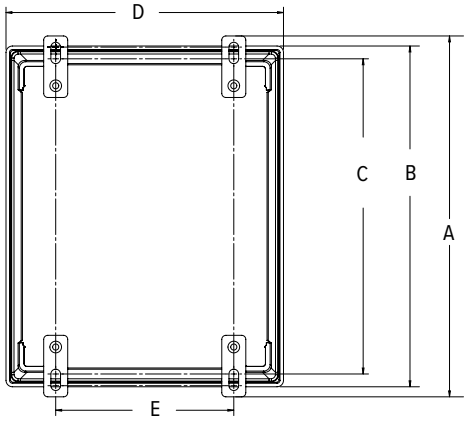
Part #	Description	Price
91780	JB4SP signal trim four-channel with expansion	$310.00
92762	JB4SPT signal trim with transient protection (not FM approved)	$495.00
88958	Board only	$175.00
89894	Transient board	$235.00
165272	Enclosure only (does not include cord grips and filter)	$145.00

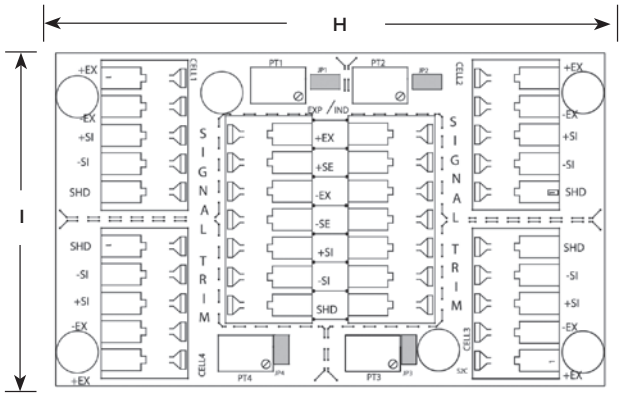
Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

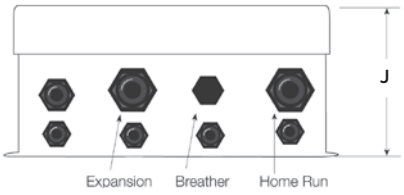
Dimensions

JB4SP and JB4SPT					
A	10.04 in	E	4.00 in	I	2.30 in
B	9.52 in	F	5.95 in	J	5.95 in
C	8.50 in	G	5.71 in	K	5.95 in
D	7.43 in	H	3.80 in		

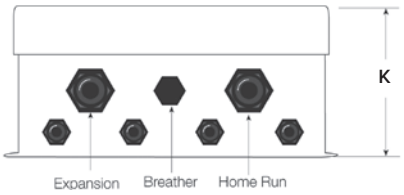








JB4SPT



JB4SP

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JB4EP and JB4EPT

TuffSeal® Excitation Trim Junction Box

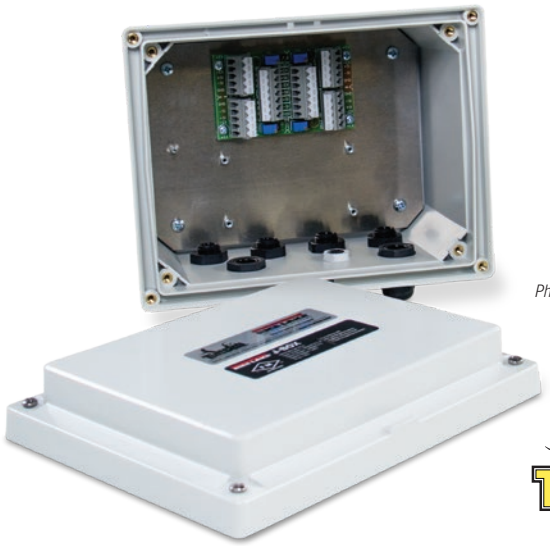


Photo of JB4EP

Standard Features

- Jumpers to enable/disable a load cell
- PreVent™ breather vent
- Conformal -coated circuit board
- Connect two, three or four single load cells
- Expansion port

Applications

- Tank and hopper scales

Specifications

Cable Fittings:
(4) PG7 0.118 to 0.255 in strain relief
(2) PG11 0.197 to 0.394 in strain relief

Rating/Material:
NEMA Type 4X
Polycarbonate with overlapping solid cover, stainless steel screws

Connectors:
Spring clamp screwless, 12 to 28 AWG

Trimming:
Individual cell, excitation trim

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:
100 ohm, 25-turn cermet

Circuit Board:
3.8 × 2.3 in, with conformal coating

Warranty:
One-year limited

Approvals:
cFMus

Approvals

FM APPROVED

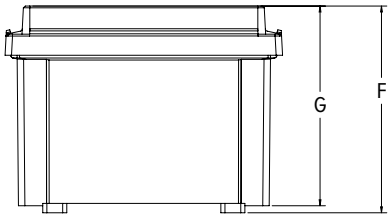
Part Number/Price

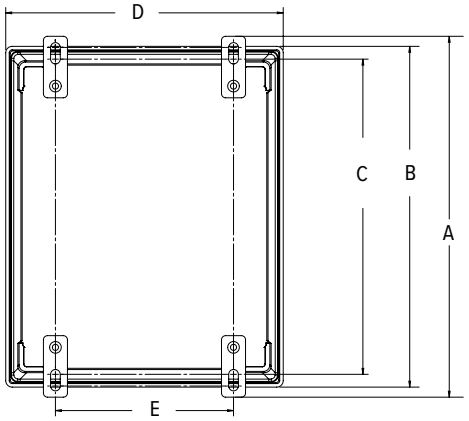
Part #	Description	Price
91781	JB4EP excitation trim junction box	$310.00
92763	JB4EPT excitation trim junction box with transient protection	$495.00
89446	Board only	$170.00
89894	Transient board	$235.00
165272	Enclosure only (does not include cord grips or filter)	$145.00

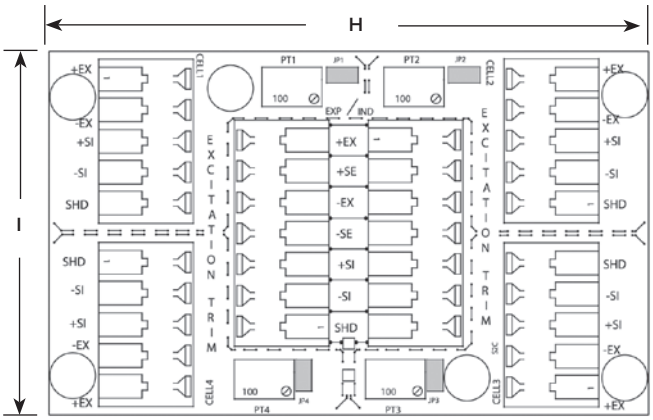
Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

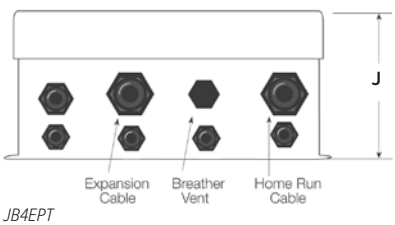
Dimensions

JB4EP and JB4EPT					
A	10.04 in	E	4.00 in	I	2.30 in
B	9.52 in	F	5.95 in	J	5.95 in
C	8.50 in	G	5.71 in	K	5.95 in
D	7.43 in	H	3.80 in		

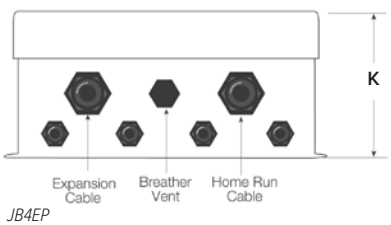








JB4EPT



JB4EP

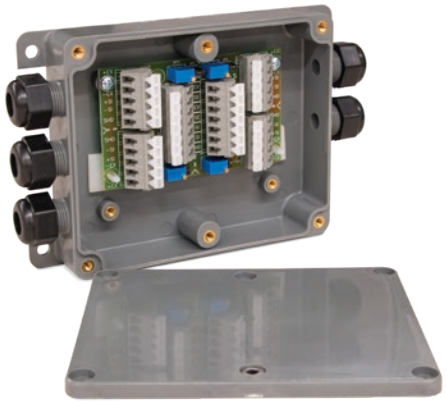
JUNCTION BOXES / SIMULATORS

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EL204

Signal Trim Junction Box

Discontinued



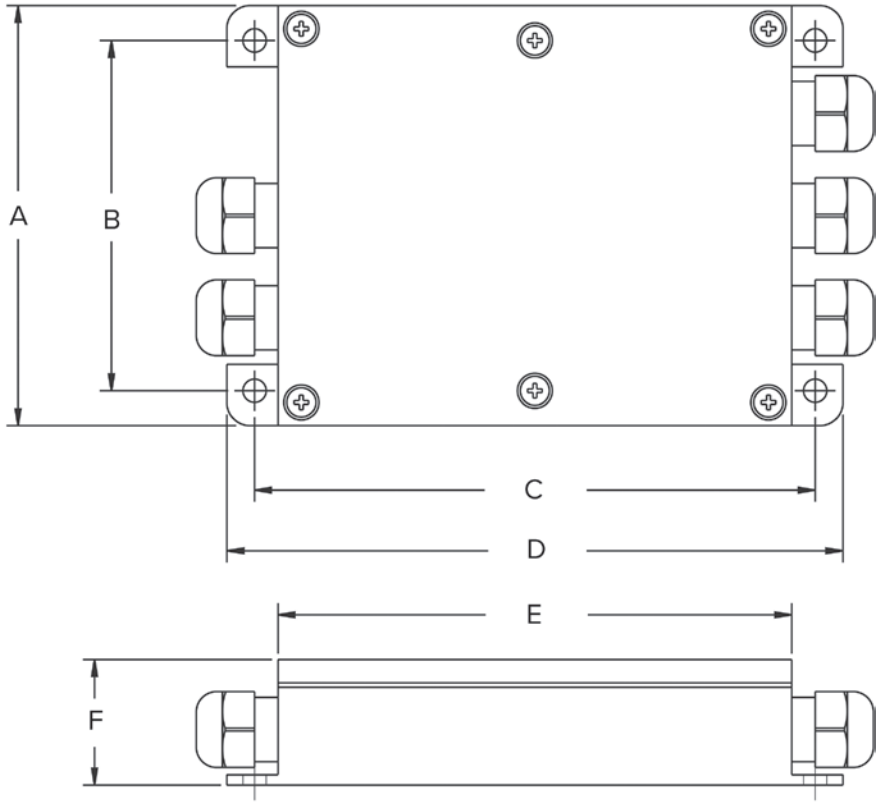
Part Number/Price

Part #	Description	Price
73428	EL204 junction box	$245.00
88958	Board only	$175.00

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Dimensions

EL204			
A	4.50 in	D	6.59 in
B	3.75 in	E	5.50 in
C	6.00 in	F	1.34 in



Standard Features

- ABS enclosure with molded-in cable fittings
- Connect two, three or four single load cells

Applications

- Floor, hopper, tank or livestock applications

Specifications

Cable Fittings:
Five water tight nylon compression fittings, 0.210 × 0.280 in

Enclosure:
ABS with molded through-fittings, sealed six-screw lid

Connectors:
Spring clamp screwless, 12 to 28 AWG

Trimming:
Individual cell, signal trim

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:
100,000 ohm, 25-turn cermet

Circuit Board:
3.8 × 2.3 in, with conformal coating

Warranty:
One-year limited

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EL504

Signal Trim Junction Box



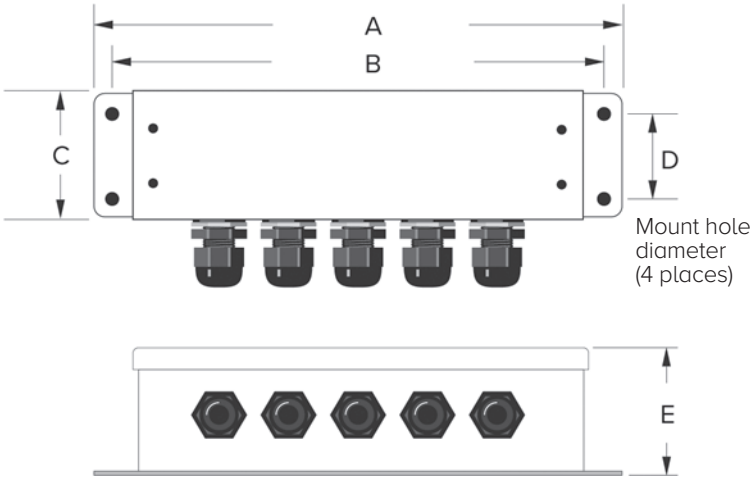
Part Number/Price

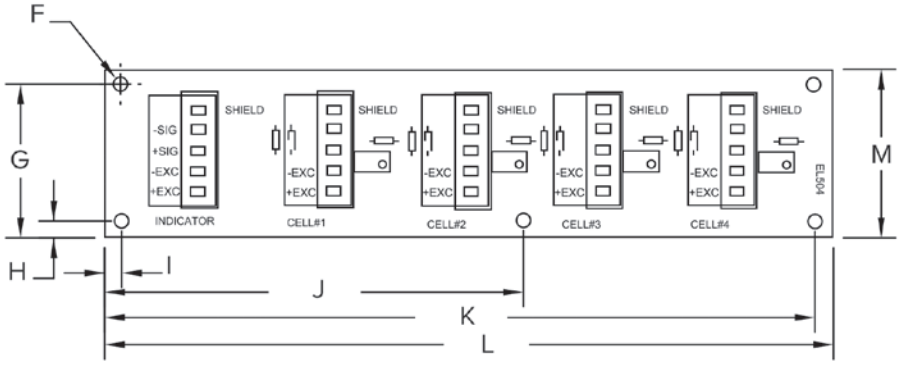
Part #	Description	Price
21165	EL504 signal trim junction box	$425.00
21296	Board only	$275.00
165274	Enclosure only (includes cord grips and cover)	$175.00

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability. Any unused channels require modification.

Dimensions

EL504					
A	9.50 in	F	Ø.14 in thru type	K	6.33 in
B	8.80 in	G	1.37 in	L	6.50 in
C	2.40 in	H	0.15 in	M	1.50 in
D	1.50 in	I	0.15 in		
E	2.30 in	J	3.73 in		





Standard Features

- Strain relief cable fittings
- Removable connectors for easy wiring
- Connect two or four single load cells (even number of load cells only)

Applications

- Truck and floor scales
- Limited space installations

Specifications

Cable Fittings:
Five nylon 0.187 to 0.312 in cable strain reliefs

Rating/Material:
NEMA Type 4X, 40 psi washdown
Stainless steel

Connectors:
Electrovert 0.197 in (5.0 mm) miniature two piece connectors. Maximum wire size #14 AWG; connectors are removable for easy wiring.

Trimming:
Individual cell, signal trim

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:
100,000 ohm, 25-turn cermet

Circuit Board:
6.5 × 1.5 in, with anti-fungal coating

Warranty:
One-year limited

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JB8SP

TuffSeal® Signal Trim Junction Box



Approvals

FM APPROVED

Part Number/Price

Part #	Description	Price
91782	JB8SP signal trim eight-channel with expansion	$495.00
173807	JB8SP signal trim eight-channel with expansion, FM approved	$525.00
89889	Board only	$395.00
172415	Board only, FM approved	$425.00
165273	Enclosure only (does not include cord grips and filter)	$175.00

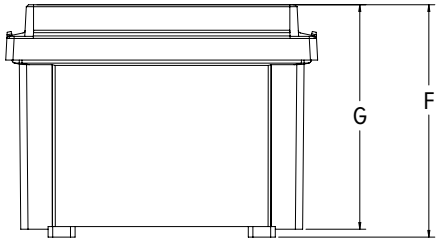
Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

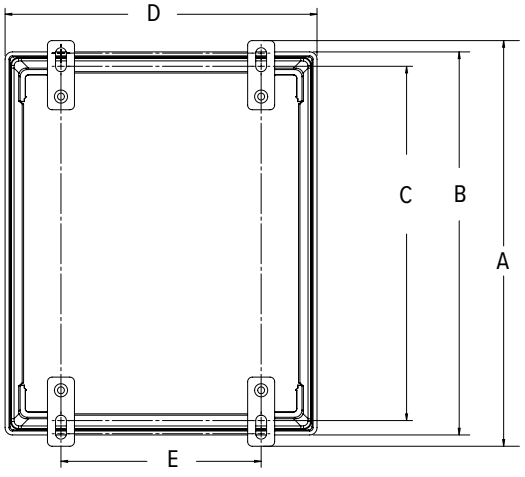
Options/Accessories

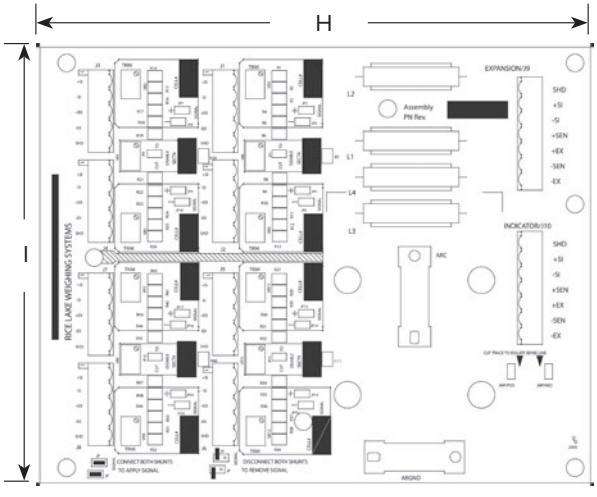
Part #	Description	Price
215178	Mounting tabs-new style (set of 4, includes screws), polycarbonate	$15.00
92734	Coupling, 1/2-in NPT cord grip to 3/4-in NPT conduit fitting	$27.00
92735	Coupling, 3/8-in NPT cord grip to 3/4-in NPT conduit fitting	$27.00

Dimensions

JB8SP			
A	12.13 in	F	5.98 in
B	11.45 in	G	6.95 in
C	11.38 in	H	7.20 in
D	10.59 in	I	5.70 in
E	9.32 in		







Standard Features

- Polycarbonate, NEMA Type 4X enclosure
- PreVent™ breather vent
- Conformal-coated circuit board
- Removable load cell connectors
- Section and individual cell trim capability
- Connect two, four, six or eight single load cells (even number of cells only)
- Expansion port

Applications

- Truck, livestock and railroad scales

Specifications

Cable Fittings:
(9) 3/8 in NPT 0.157 to 0.314 in
(2) 1/2 in NPT 0.272 to 0.472 in

Rating/Material:
NEMA Type 4X
Polycarbonate with overlapping solid cover, stainless steel screws

Connectors:
Pluggable screw type, 12 to 28 AWG

Trimming:
Individual cell , range trim

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:
100,000 ohm, 25 turn cermet

Circuit Board:
5.7 × 7.2 in with conformal coating

Warranty:
One-year limited

Approvals:
cFMus

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JB8SPT

TuffSeal® Signal Trim Junction Box



Standard Features

- Transient protection
- PreVent™ breather vent
- Conformal-coated circuit board
- Removable load cell connectors
- Section and individual cell trim capability
- Field replaceable transient protection
- One coupling, 0.5 inch NPT cord grip to 0.75-inch NPT conduit fitting for homerun cable
- Connect two, four, six or eight single load cells (even number of cells only)
- Expansion port

Applications

- Truck, livestock and railroad scales

Part Number/Price

Part #	Description	Price
91783	JB8SPT signal trim junction box with transient protection	$700.00
89889	Board only	$395.00
89894	Transient board	$235.00
165273	Enclosure only (does not include cord grips and filter)	$175.00

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Options/Accessories

Part #	Description	Price
215178	Mounting tabs-new style (set of 4, includes screws), polycarbonate	$15.00
92734	Coupling, 1/2-in NPT cord grip to 3/4-in NPT conduit fitting	$27.00
92735	Coupling, 3/8-in NPT cord grip to 3/4-in NPT conduit fitting	$27.00

Specifications

Cable Fittings:
(9) 3/8 in NPT 0.157 to 0.314 in
(2) 1/2 in NPT 0.272 to 0.472 in

Rating/Material:
NEMA Type 4X
Polycarbonate with overlapping solid cover, stainless steel screws

Connectors:
Pluggable screw type, 12 to 28 AWG

Trimming:
Individual cell trim

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

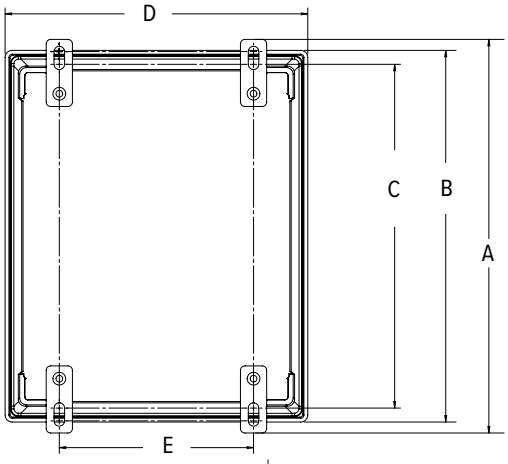
Potentiometers:
100,000 ohm, 25-turn cermet

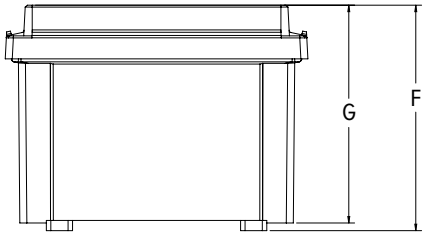
Circuit Board:
5.7 × 7.2 in with conformal coating

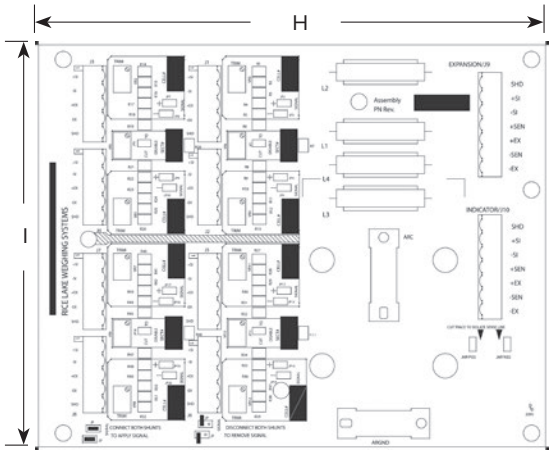
Warranty:
One-year limited

Dimensions

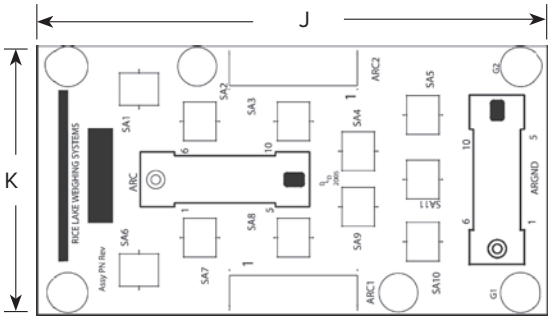
JB8SP	
A	12.13 in
B	11.45 in
C	11.38 in
D	10.59 in
E	9.32 in
F	5.98 in
G	6.95 in
H	7.20 in
I	5.70 in
J	3.80 in
K	2.30 in







Load Cell Board

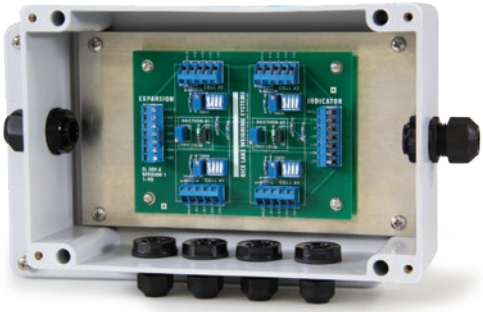


Transient Board

JUNCTION BOXES / SIMULATORS

EL304A

Signal Trim Junction Box



Part Number/Price

Part #	Description	Price
21169	EL304A signal trim four-channel junction box	$350.00
21301	Board only	$235.00
165275	Enclosure only (includes cord grips)	$180.00

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Dimensions

EL304A			
A	5.50 in	D	6.62 in
B	4.00 in	E	1.38 in
C	9.88 in	F	3.25 in

Standard Features

- Strain relief cable fittings
- Individual cell signal disconnect switches
- Connect two or four single cells (even number of cells only)
- Corner and/or section trim applications
- Expansion port

Applications

- Livestock scales, tank and vessel weighing

Specifications

Cable Fittings:
Four nylon cable strain reliefs, 0.079 to 0.236 in
Two nylon cable strain reliefs, 0.236 to 0.354 in

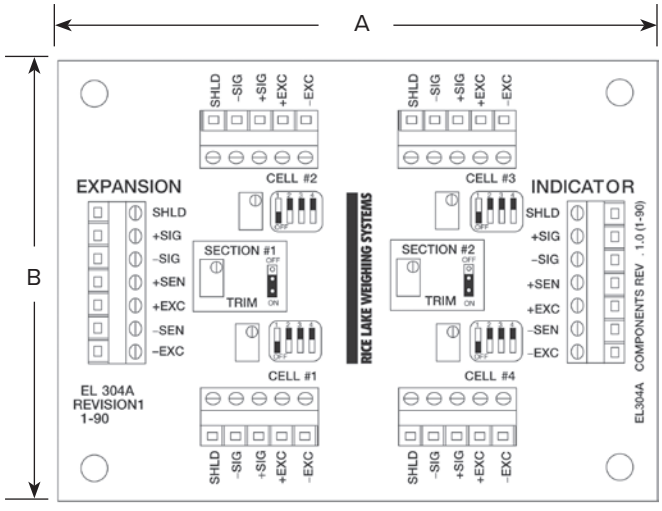
Rating/Material:
NEMA Type 4X, 40 psi washdown
Fiberglass Reinforced Polyester (FRP)

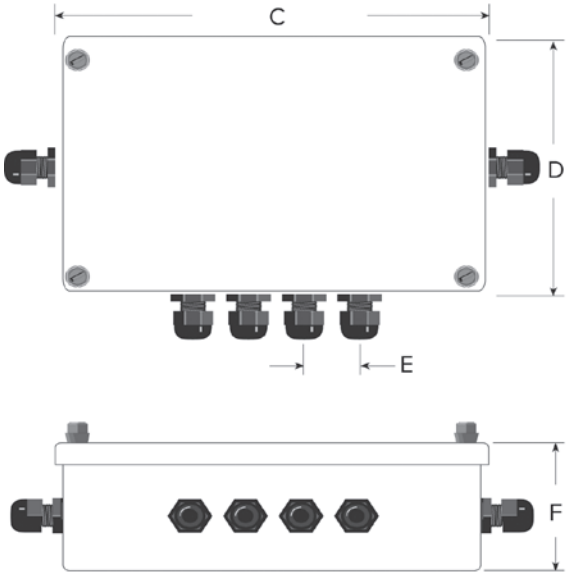
Connectors:
Electrovert 0.197 in (5.0 mm) miniature screw terminals
Maximum wire size #14 AWG

Trimming:
Individual cell and section, signal trim

Potentiometers:
100,000 ohm, 25-turn cermet

Warranty:
One-year limited





JUNCTION BOXES / SIMULATORS

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Standard Features

- Transient protection
- Signal or excitation trim
- Front panel mounting
- Strain relief cable fittings
- Connect up to 10 single load cells
- Trims odd numbers of cells without modification

Applications

- Tank, truck, railroad, hopper and floor scales
- Universal field replacement of existing boxes
- Expansion of existing scales

Specifications

Cable Fittings:
Nylon waterproof strain-relief type

Rating/Material:
NEMA Type 4X
Fiberglass Reinforced Polyester (FRP)

Terminal Block:
Rated 300V/15A;
7-position screw terminal can each accommodate up to #16 AWG

Trimming:
Individual cell, section signal and excitation trim

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:
100,000 ohm, 25-turns cermet

Mounting Centers:
3.75 × 2.31 in (95.2 × 58.7 mm)

Cable Diameter:
0.079 to 0.314 in

Warranty:
One-year limited

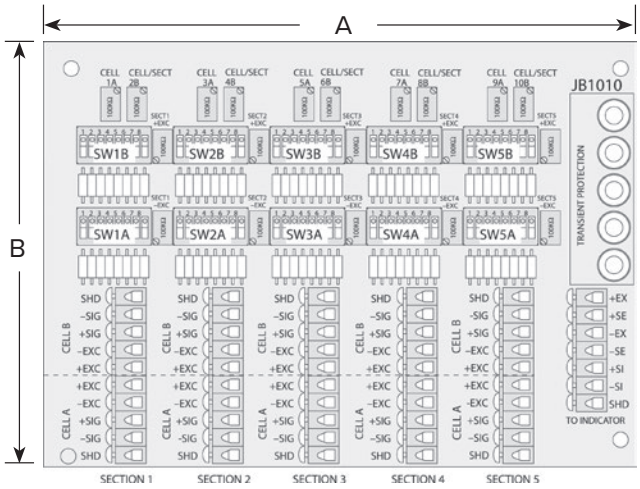
Part Number/Price

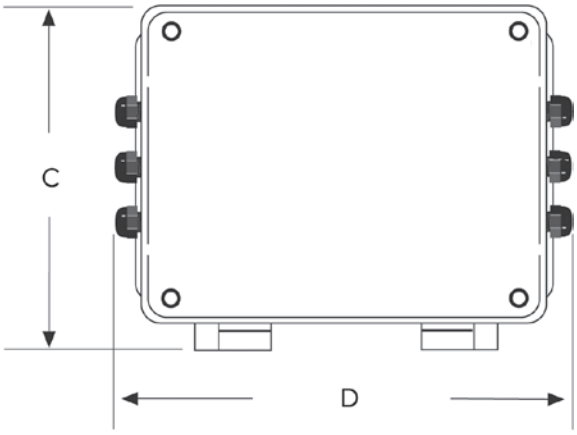
Part #	Description	Price
36231	JB1010 signal/excitation trim junction box	$685.00
36351	Board only	$475.00
165276	Enclosure only (includes cord grips)	$275.00

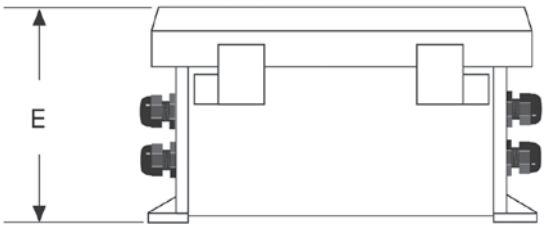
Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Dimensions

JB1010T	
A	6.75 in
B	4.75 in
C	7.88 in
D	10.75 in
E	5.00 in



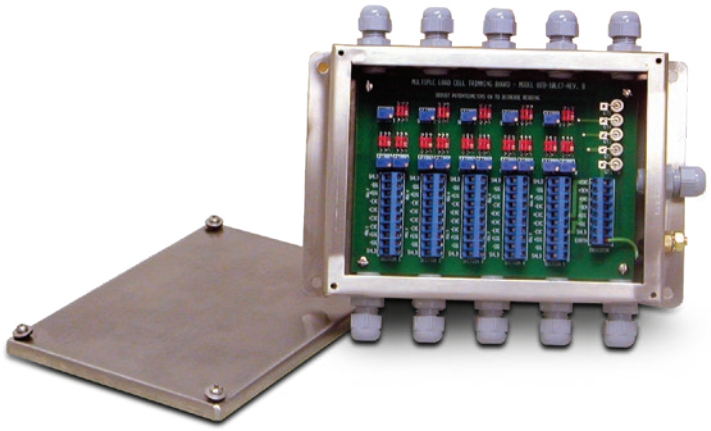




JUNCTION BOXES / SIMULATORS

JB1010ST

Signal Trim Junction Box



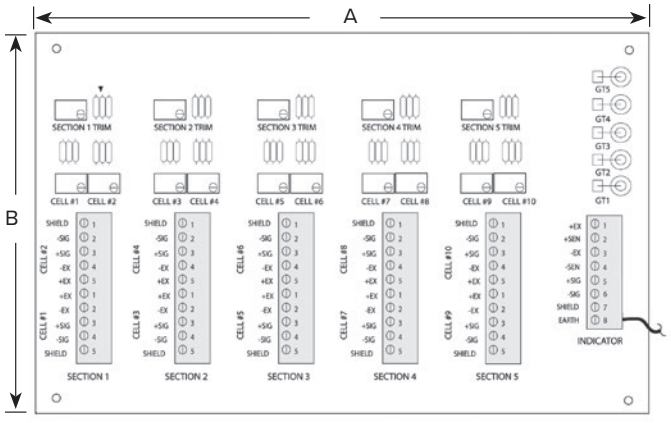
Part Number/Price

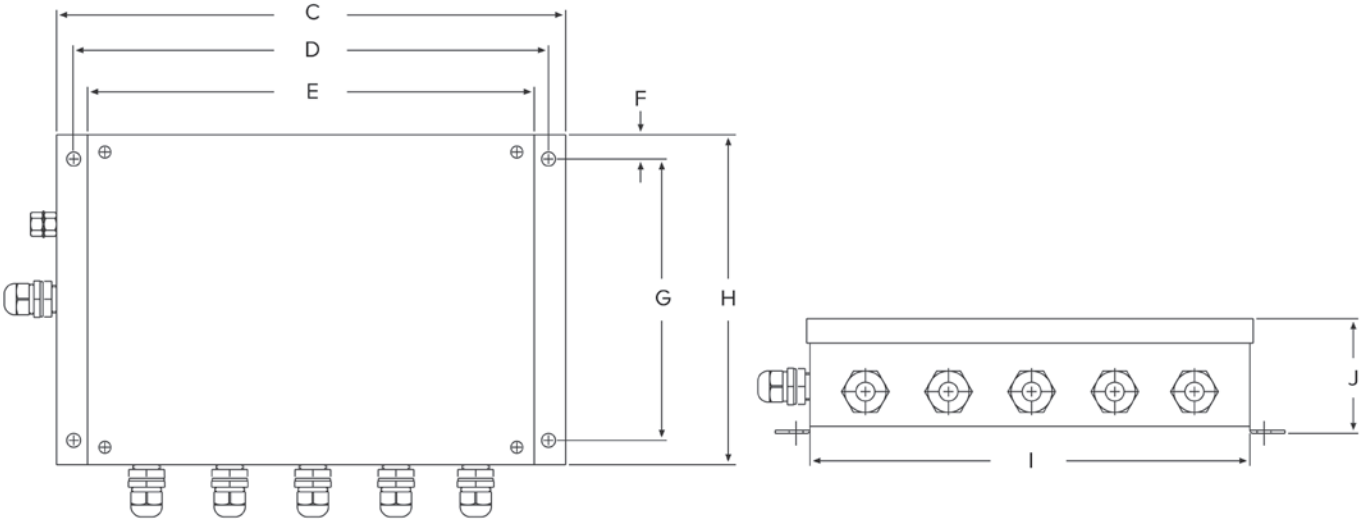
Part #	Description	Price
68813	JB1010ST signal trim junction box	$615.00
68811	Board only	$465.00
165277	Enclosure only (includes cord grips)	$485.00

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability. Any unused channels require modification.

Dimensions

JB1010ST	
A	6.75 in
B	4.75 in
C	9.19 in
D	8.58 in
E	8.06 in
F	0.44 in
G	5.19 in
H	5.94 in
I	7.94 in
J	2.06 in





Standard Features

- Transient protection using gas discharge tubes
- Stainless steel, NEMA Type 4X enclosure
- Section and individual cell trim capability
- Compact enclosure only 1.75 in deep
- Strain relief cable fitting
- Connect two, four, six, eight or 10 single load cells (even number of load cells only)
- Legal for Trade sealing screws, wire and seal included

Applications

- Tank, truck and railroad scales
- Summing 10 load cells with individual and section trimming capability

Specifications

Cable Fittings:
Eleven nylon 0.079 to 0.314 in cable strain reliefs

Rating/Material:
NEMA Type 4X
Stainless steel

Connectors:
Electrovert 0.197 miniature screw terminals
Five positions
Maximum wire size: #14 AWG
External enclosure ground stud

Trimming:
Individual cell and section signal trim

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:
100,000 ohm, 25-turn cermet, individual trim
100 ohm, for section trimming

Warranty:
One-year limited

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Model	Complete J-Box Replacement	Replacement Board Only	Replacement Cord Grips	Replacement Pressure & Condensation Vent	Desiccant Pack
JB4SS	**88956** $295.00	**88958** $175.00	**58983**=PG7, $5.00 **59001**=PG11 $3.70	**88733** PreVent™ breather (vent) $22.00 **88734** (vent nut) $1.05	**92240** $1.20
JB4ES	**91779** $295.00	**89446** $170.00	**58983**=PG7, $5.00 **59001**=PG11 $3.70	**88733** PreVent™ breather (vent) $22.00 **88734** (vent nut) $1.05	**92240** $1.20
JB4SP JB4SPT	**91780** $310.00 **92762** $495.00	**88958** (load cell) $175.00 & **89894** (transient protection) $235.00	**58983**=PG7, $5.00 **59001**=PG11 $3.70	**88733** PreVent™ breather (vent) $22.00 **88734** (vent nut) $1.05	**16039** $2.30
JB4EP JB4EPT	**91781** $310.00 **92763** $495.00	**89446** (load cell) $170.00 & **89894** (transient protection) $235.00	**58983**=PG7, $5.00 **59001**=PG11 $3.70	**88733** PreVent™ breather (vent) $22.00 **88734** (vent nut) $1.05	**16039** $2.30
EL204	**73428** $245.00	**88958** $175.00	N/A	N/A	N/A
JB8SP	**91782** $495.00 **173807** FM approved $525.00	**89889** $395.00 **172415** FM approved $425.00	**15655** (cord grip) $2.10 & **15656** (nut) $1.05 =3/8 in NPT **15628** (cord grip) $5.00 & **15630** (nut) $3.00 =1/2 in NPT	**88733** PreVent™ breather (vent) $22.00 **88734** (vent nut) $1.05	**16039** $2.30
JB8SPT	**91783** $700.00	**89889** (load cell) $395.00 & **89894** (transient protection) $235.00	**15655** (cord grip) $2.10 & **15656** (nut) $1.05 =3/8 in NPT **15628** (cord grip) $5.00 & **15630** (nut) $3.00 =1/2 in NPT	**88733** PreVent™ breather (vent) $22.00 **88734** (vent nut) $1.05	**16039** $2.30
EL304A	**21169** $350.00	**21301** $235.00	N/A	N/A	N/A
JB1010	**36231** $685.00	**36351** $475.00	N/A	N/A	N/A
JB1010ST	**68813** $615.00	**68811** $465.00	N/A	N/A	N/A
EL210	**91781**, JB4EP* $310.00	**92472** $155.00	**58983**=PG7, $5.00 **59001**=PG11 $3.70	N/A	N/A
EL211A	**91780**, JB4SP* $310.00 (However the board does not have section trim capabilities)	**92473**, $160.00 (However the board does not have section trim capabilities)	**58983**=PG7, $5.00 **59001**=PG11 $3.70	N/A	N/A
EL604-AL	**88956**, JB4SS* $295.00	**88958** $175.00	**58983**=PG7, $5.00 **59001**=PG11 $3.70	N/A	N/A
EL604STA	**88956**, JB4SS* $295.00	**88958** $175.00	**58983**=PG7, $5.00 **59001**=PG11 $3.70	N/A	N/A
EL604ETA	**91779**, JB4ES* $295.00	**89446** $170.00	**58983**=PG7, $5.00 **59001**=PG11 $3.70	N/A	N/A
EL504	**21165** $425.00	**21296** $275.00	N/A	N/A	N/A
JB808S	**91782**, JB8SP* $495.00	**92471** $385.00	**15655** (cord grip) $2.10 & **15656** (nut) $1.05 =3/8 in NPT **15628** (cord grip) $5.00 & **15630** (nut) $3.00 =1/2 in NPT	N/A	N/A
JB818ST	**91783**, JB8SPT* $700.00	Need (1) **77445** $68.00 (1) **89889** $395.00, & (1) **89894** $235.00	**15655** (cord grip) $2.10 & **15656** (nut) $1.05 =3/8 in NPT **15628** (cord grip) $5.00 & **15630** (nut) $3.00 =1/2 in NPT	N/A	N/A

**See catalog pages for enclosure dimensions*

JUNCTION BOXES / SIMULATORS

iQUBE²®

Digital Diagnostic Junction Box



TuffSeal®

Approvals

Measurement Canada Approved

c UL us LISTED

Standard Features

- iQUBE² board has four A/D channels
- Supports networking up to four boards, for 16 A/D channels; connection can be up to four separate platforms with a system total, or four separate scale systems
- Diagnostic routines for weighing errors and system health
- Cell tests for overloaded, underloaded, zero reference, drift, noise and unbalanced conditions
- Onboard status LEDs for communication and visual bi-color indication of cell health
- Cell emulator compensates for load cell failure until a repair can be made
- Cal-Match® algorithm automatically trims and calibrates the scale in one pass of test weights (stopping over each mount)
- Standard communications
- Option card slot for fiber optic, Ethernet TCP/IP, wireless TCP/IP, USB or RS-232/RS-485
- Communicates to 920i®, 1280, VIRTUi²® using ASCII (EDP) serial commands

Applications

- Truck, railroad, tank and hopper scales
- Multi-channel scales

Specifications

Voltage Input:
115/230 VAC power supply
DC/DC converter for 9 to 36 V
6 to 12 VDC to CPU

Analog Signal Input Range:
-78 to +78 mV

Analog Signal Sensitivity:
0.3 uV/grad at 30 Hz
0.5 uV/grad at 100 Hz
1.2 uV/grad at 500 Hz

A/D Sampling Rate:
2.5 to 500 Hz (selectable)

Digital I/O:
Four per card, for push-button operation, setpoint control or cell status

Communication Ports:
RS-232/RS-422

Load Cell Inputs:
Four channels per board
up to four networked boards

Load Cell Excitation:
5 V DC, 57 mA maximum per channel

Rating/Material:
Polycarbonate (NEMA Type 4X) enclosure with overlapping solid cover, stainless steel screws
Stainless steel (NEMA Type 4X) enclosure with hinged cover

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -13 °F to 140 °F (-25 °C to 60 °C)

Warranty:
Two-year limited

Approvals:
NTEP 03-032A1
Measurement Canada AM-5561
CE Marked
cULus E151461

Part Number/Price

Part #	Description	Est. Weight	Price
With AC Power Supply			
108425*	iQUBE², four-channel, polycarbonate small junction box	9 lb	$1,365.00
108426	iQUBE², four-channel, polycarbonate large junction box	11 lb	$1,575.00
108427	iQUBE², eight-channel, polycarbonate large junction box	11 lb	$2,625.00
108428	iQUBE², four-channel, stainless steel small junction box	13 lb	$2,573.00
Without Power Supply			
108429*	iQUBE², four-channel, polycarbonate small junction box	8 lb	$1,260.00
108430	iQUBE², four-channel, polycarbonate large junction box	10 lb	$1,470.00
108431	iQUBE², eight-channel, polycarbonate large junction box	10 lb	$2,520.00
108432	iQUBE², four-channel, stainless steel small junction box	12 lb	$2,468.00
Conduit Adapters			
92734	Conduit adapter 3/8 in NTP to 3/4 in NPT		$27.00
92735	Conduit adapter 1/2 in NTP to 3/4 in NPT		$27.00

** Enclosure size 8 x 10in required for truck scale junction box pocket*

Options/Accessories

Part #	Description	Price
108433	Four-channel iQUBE² board with cables and connectors	$1,050.00
97475	DC/DC power supply, 9 to 36 VDC (requires factory installation)	$255.00
108434	Remote power supply 115/230 VAC and transient board with enclosure	$473.00
109396	Transient board	$95.00
110949	Transient board with mount	$116.00
161954	Hotspot in polycarbonate enclosure	$3,195.00
215178	Mounting tabs-new style (set of 4, includes screws), polycarbonate	$15.00

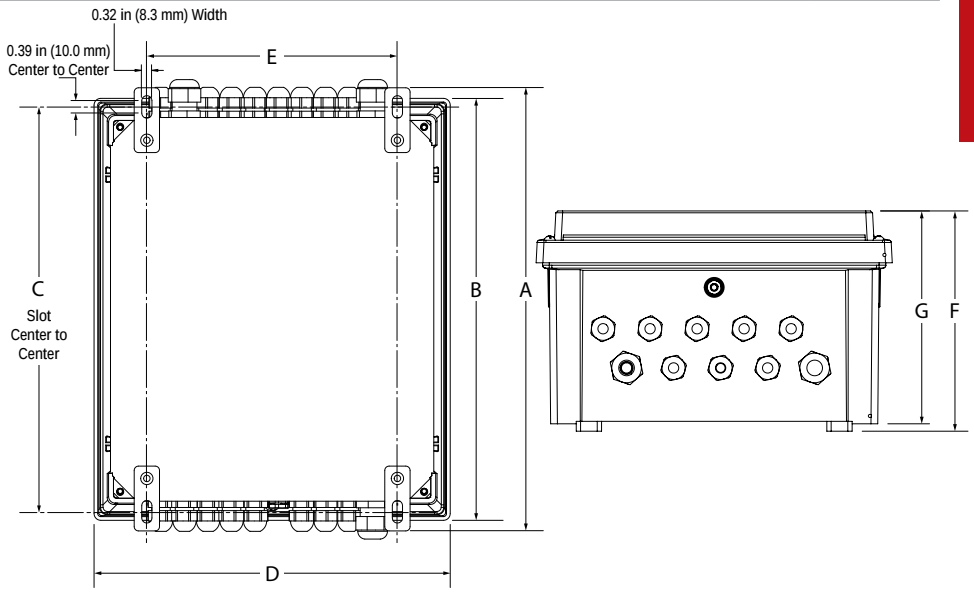
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Options/Accessories

Part #	Description	Price
Communication Card		
108579	RS-232/RS-485 port	$300.00
77142	Ethernet TCP/IP	$545.00
206272	Wireless LAN 802.11 A/B	$610.00
93245	USB port	$225.00
77143	Fiber-optic board	$231.00
77788	Fiber-optic board (installed in 920i)	$235.00
Duplex Fiber (Max Run 350 ft)		
78026	Fiber-optic cable, 100 ft	$185.00
78027	Fiber-optic cable, 200 ft	$350.00
78910	Fiber-optic cable, custom length	$1.85/ft
Home Run Cable		
116587	EL166 16 gauge, six conductor, shielded	$2.65/ft
Software		
108436	VIRTUi² activation part number	$578.00
112262	Firmware update flash cable	$69.00
920i® Indicators for use with iQUBE², requires version 4 software		
77790	920i Universal, 115 VAC, without A/D	$3,195.00
77791	920i Universal, 230 VAC, without A/D	$3,195.00
93243	920i Deep Universal, 115 VAC, without A/D	$3,445.00
93244	920i Deep Universal, 230 VAC, without A/D	$3,445.00
77792	920i Panel Mount, 115 VAC, without A/D	$3,195.00
77793	920i Panel Mount, 230 VAC, without A/D	$3,195.00
77794	920i Wall Mount, 115 VAC, without A/D	$4,095.00
77795	920i Wall Mount, 230 VAC, without A/D	$4,095.00
1280 Indicators for use with iQUBE²		
189623	1280 7 inch touch-only, AC power supply, no power cord, standard display, without A/D	$3,180.00
188526	1280 7 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	$3,280.00
188395	1280 12 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	$4,345.00
181073	1280 Panel Mount, DC power supply, no power cord, standard display, without A/D	$3,180.00
178473	1280 Panel Mount, AC power supply, no power cord, high visibility display, without A/D	$3,280.00
205677	1280 Wall Mount, AC power supply, U.S. power cord, standard display, without A/D	$3,780.00
171667	1280 Wall Mount, AC power supply, U.S. power cord, high visibility display, without A/D	$3,880.00
174750	1280 Panel Mount, AC power supply, no power cord, standard display, without A/D	$3,180.00
174207	1280 Universal, AC power supply, Europe power cord, standard display, without A/D	$3,380.00
171582	1280 Universal, AC power supply, U.S. power cord, standard display, without A/D	$3,380.00
188713	1280 Universal, DC power supply, no power cord, standard display, without A/D	$3,380.00
171540	1280 Universal, DC power supply, no power cord, high visibility display, without A/D	$3,480.00
172419	1280 Universal, AC power supply, U.S. power cord, high visibility display, without A/D	$3,480.00

Dimensions

iQUBE²			
Stainless Steel			
A	13.50 in (343 mm)	E	8.00 in (203 mm)
B	12.28 in (312 mm)	F	6.29 in (160 mm)
C	12.75 in (324 mm)	G	6.20 in (157 mm)
D	10.28 in (261 mm)		
Polycarbonate Small			
A	12.13 in (308 mm)	E	5.98 in (152 mm)
B	11.45 in (291 mm)	F	6.95 in (176 mm)
C	10.90 in (268 mm)	G	6.71 in (170 mm)
D	9.32 in (237 mm)		
Polycarbonate Large			
A	14.13 in (360 mm)	E	7.99 in (203 mm)
B	13.46 in (342 mm)	F	7.02 in (178 mm)
C	12.91 in (328 mm)	G	6.79 in (172 mm)
D	11.36 in (289 mm)		



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iQUBE³

Digital Diagnostic Junction Box

NEW



Approvals

Measurement Canada Approved
pending

TuffSeal®

Standard Features

- Designed for weighing systems using the 1280 Enterprise™ Series indicator
- iQUBE³ CPU board: Four A/D channels, SD Slot, RS232/485, four DIOs, Ethernet TCP/IP (wired), USB-C
- iQUBE³ CPU board supports networking up to five iQUBE³ four-channel boards (four A/D channels each), for a total of 24 A/D channels; connection can be up to four separate scales and a Total Scale
- Diagnostic routines for weighing errors and system health
- Additional diagnostics for overloaded, underloaded, zero reference, drift, noise and unbalanced conditions
- Onboard status LEDs for communication and visual bi-color indication of load cell health
- Load cell emulator compensates for a failed load cell
- Cal-Match® algorithm automatically trims and calibrates the scale in one pass of test weights
- Two option slots available

Part Number/Price

Part #	Description	Est. Weight	Price
With AC Power Supply			
227157*	iQUBE³, four-channel, polycarbonate small junction box	9 lb	$1,465.00
227158	iQUBE³, four-channel, polycarbonate large junction box	11 lb	$1,675.00
227159	iQUBE³, eight-channel, polycarbonate large junction box	11 lb	$2,725.00
227160	iQUBE³, four-channel, stainless steel small junction box	13 lb	$2,673.00
Without Power Supply			
227161*	iQUBE³, four-channel, polycarbonate small junction box	8 lb	$1,360.00
227162	iQUBE³, four-channel, polycarbonate large junction box	10 lb	$1,570.00
227163	iQUBE³, eight-channel, polycarbonate large junction box	10 lb	$2,620.00
227164	iQUBE³, four-channel, stainless steel small junction box	12 lb	$2,568.00
With DC Power Supply			
227165	iQUBE³, four-channel, polycarbonate small junction box with transient protection	9 lb	$1,615.00
227166	iQUBE³, four-channel, polycarbonate large junction box with transient protection	11 lb	$1,825.00
227167	iQUBE³, eight-channel, polycarbonate large junction box with transient protection	11 lb	$2,875.00
227168	iQUBE³, four-channel, stainless steel small junction box with transient protection	13 lb	$3,150.00

**Small iQUBE³ required for truck scale junction box pocket.*

Options

- Fiber optic
- Analog output: 16-bit resolution, 0 to 10 VDC, 0 to 20 mA, 4 to 20 mA
- Relay or Serial (two RS-232 or RS-422/485)
- Wireless Ethernet TCP/IP
- Bridge resistance board

Applications

- Truck and railroad scales
- Tank and hopper scales
- Multi-channel scales

Specifications

Voltage Input:
AC voltage: 100 to 240 VAC; 50/60 Hz
DC voltage: 9 to 36 VDC

Analog Signal Input Range:
-51 to +51 mV

Analog Signal Sensitivity:
0.3 uV/grad at 30 Hz
0.5 uV/grad at 100 Hz
1.2 uV/grad at 500 Hz

A/D Sampling Rate:
2.5 to 500 Hz (selectable)
12.5 Hz (default)

Digital I/O:
Four per card, for push-button operation, setpoint control or cell status
24 mA per DIO at 5 V

Communication Ports:
RS-232/RS-422/485
USB-C
Ethernet TCP/IP, wired standard
Ethernet TCP/IP, optional wireless

Load Cell Inputs:
Connect up to 24 load cells (four, per board)

Load Cell Excitation:
3.3 VDC, 38 mA maximum per channel
Up to 24 × 350 ohm load cells

Rating/Material:
Polycarbonate (NEMA Type 4X) enclosure
Stainless steel (NEMA Type 4X) enclosure with hinged cover

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -40 °F to 140 °F (-40 °C to 60 °C)
Storage: -40 °F to 158 °F (-40 °C to 70 °C)

Warranty:
Two-year limited

Approvals:
NTEP 25-041
Measurement Canada (pending)
cULus (pending)
CE Marked (pending)

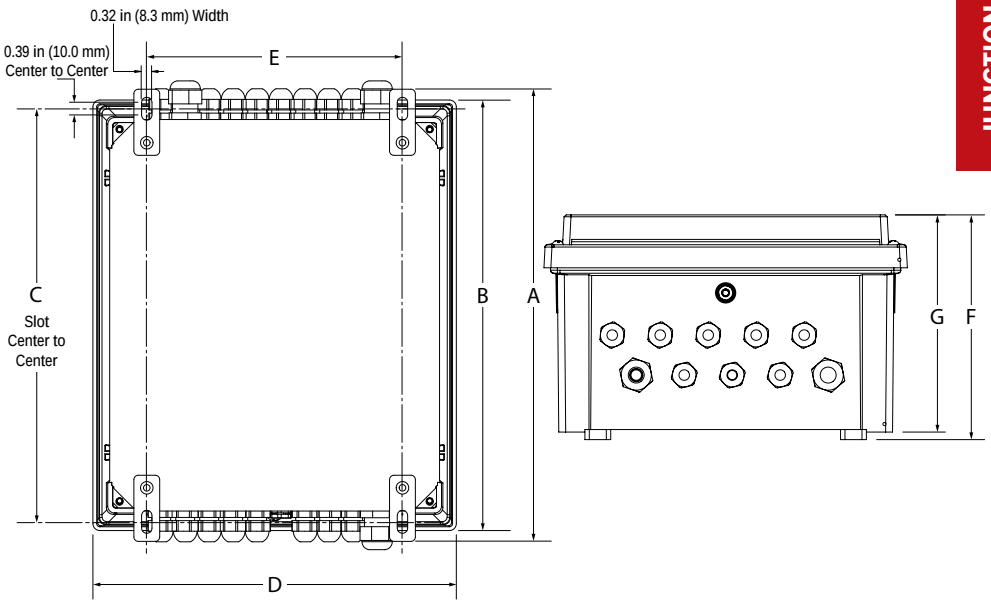
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Options/Accessories

Part #	Description	Price
231373	iQUBE³ CPU board, four-channel with cables and connectors	$1,200.00
227169	iQUBE³, four-channel board, four-channel with cables and connection	$950.00
231372	Enclosure, iQUBE³, four-channel, polycarbonate small junction box (no CPU)	$1,260.00
227171	Power supply, 115/230 VAC input, 24VDC output, FRP enclosure, iQUBE³ remote power	$473.00
230935	Bridge resistance card assembly, four-channel	$750.00
232018	Transient board with mount (only used with multiple enclosures)	$116.00
231993	iQUBE³ enclosure, small, polycarbonate, includes kickstand bracket	$525.00
231994	iQUBE³ enclosure, large, polycarbonate, includes kickstand bracket	$750.00
231995	iQUBE³ enclosure, stainless steel	$1,750.00
215178	Enclosure mounting tabs-new style (set of 4, includes screws), polycarbonate	$15.00
195084	Analog card, kit	$360.00
211709	Relay card, kit	$360.00
Conduit Adapter		
92734	Conduit adapter 1/2 in NPT to 3/4 in NPT	$27.00
92735	Conduit adapter 3/8 in NPT to 3/4 in NPT	$27.00
Communication Card		
211710	Serial Output, dual serial card for iQUBE³ install kit	$360.00
230919	iQUBE³ fiber optic kit	$290.00
231366	Wireless LAN 802.11 A/B *(factory install required)*	$250.00
Duplex Fiber (Max Run 500 ft)		
78026	Fiber-optic cable, 100 ft (includes polishing kit)	$185.00
78027	Fiber-optic cable, 200 ft (includes polishing kit)	$350.00
78910	Fiber-optic cable, duplex 1.00 mm core 2.2 mm, custom length	$1.85/ft
1280 Indicators for use with iQUBE³		
189623	1280 7 inch touch-only, AC power supply, no power cord, standard display, without A/D	$3,180.00
188526	1280 7 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	$3,280.00
188395	1280 12 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	$4,345.00
181073	1280 Panel Mount, DC power supply, no power cord, standard display, without A/D	$3,180.00
178473	1280 Panel Mount, AC power supply, no power cord, high visibility display, without A/D	$3,280.00
205677	1280 Wall Mount, AC power supply, U.S. power cord, standard display, without A/D	$3,780.00
171667	1280 Wall Mount, AC power supply, U.S. power cord, high visibility display, without A/D	$3,880.00
174750	1280 Panel Mount, AC power supply, no power cord, standard display, without A/D	$3,180.00
174207	1280 Universal, AC power supply, Europe power cord, standard display, without A/D	$3,380.00
171582	1280 Universal, AC power supply, U.S. power cord, standard display, without A/D	$3,380.00
188713	1280 Universal, DC power supply, no power cord, standard display, without A/D	$3,380.00
171540	1280 Universal, DC power supply, no power cord, high visibility display, without A/D	$3,480.00
172419	1280 Universal, AC power supply, U.S. power cord, high visibility display, without A/D	$3,480.00

Dimensions

iQUBE³			
Stainless Steel			
A	13.50 in (343 mm)	E	8.00 in (203 mm)
B	12.28 in (312 mm)	F	6.29 in (160 mm)
C	12.75 in (324 mm)	G	6.20 in (157 mm)
D	10.28 in (261 mm)		
Polycarbonate Small			
A	12.13 in (308 mm)	E	5.98 in (152 mm)
B	11.45 in (291 mm)	F	6.95 in (176 mm)
C	10.90 in (268 mm)	G	6.71 in (170 mm)
D	9.32 in (237 mm)		
Polycarbonate Large			
A	14.13 in (360 mm)	E	7.99 in (203 mm)
B	13.46 in (342 mm)	F	7.02 in (178 mm)
C	12.91 in (328 mm)	G	6.79 in (172 mm)
D	11.36 in (289 mm)		



JUNCTION BOXES / SIMULATORS

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EL168

1-Cell Junction Splice Box

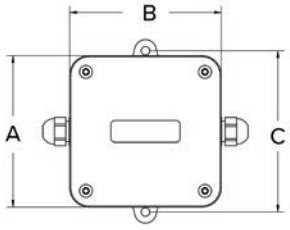


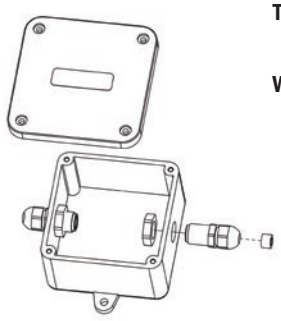
Part Number/Price

Part #	Description	Price
21161	EL168 one-cell junction box	$85.00

Dimensions

EL168	
A	4.38 in (111 mm)
B	4.38 in (111 mm)
C	4.66 in (118 mm)





Standard Features

- Non-metallic PVC enclosure with separate input and output cable fittings
- No soldering, compression or swaged fittings are required

Applications

- Splicing or extending load cell cable

Specifications

Dimensions:
(L × W × H)
4.0 × 4.0 × 2.5 in

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Cable Fittings:
Nylon waterproof strain-relief type

Cable Diameter:
0.079 to 0.314 in (2 to 8 mm)

Terminal Block:
Rated 300 V/15 A; seven-position, screw terminal can each accommodate up to #16 AWG

Warranty:
One-year limited

TP75 DC

Transient Protection





Standard Features

- Protects load cells and indicators from voltage transients
- Avalanche diode design
- Full six-wire with shield protection
- NEMA Type 4X enclosure
- Unlimited number of parallel load cells; up to eight in series
- Terminal lugs provided

Applications

- Truck, railroad, tank, bin and hopper scales
- Suitable for outdoor use

Part Number/Price

Part #	Description	Price
33185	TP75 DC transient protection	$340.00

Options/Accessories

Part #	Description	Price
31164	Circuit board only	$265.00

Specifications

Protection Type:
Six-wire type with separate shield

Maximum Excitation Voltage:
22.8 VDC

Response Time:
Five nanoseconds

Peak Surge Currents:
100 amps

Grounding:
10 AWG wire or larger (not provided)

Cable Fitting:
(2) Nylon strain relief for 0.187 to 0.312 in diameter cable

Enclosure:
Impact-resistant polycarbonate NEMA Type 4X, maximum 40 psi washdown

Temperature:
Operating:
-4 °F to 149 °F (-20 °C to 65 °C)

Dimensions:
(L × W × H)
3.16 × 2.20 × 1.18 in

Warranty:
One-year limited

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UJB3T6 DC

Transient Protection





Part Number/Price

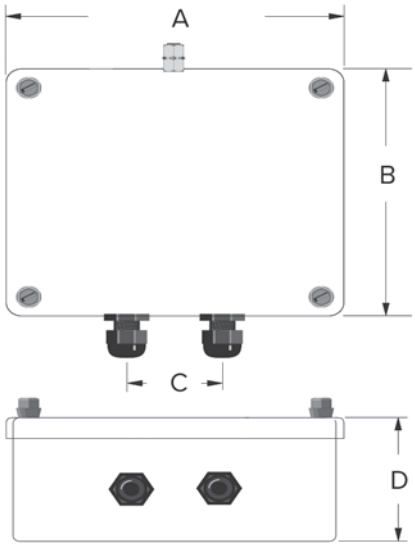
Part #	Description	Price
21134	UJB3T6	$495.00

Options/Accessories

Part #	Description	Price
21135	Six-wire load cell transient protector, board only	$285.00

Dimensions

UJB3T6 DC	
A	7.63 in
B	6.63 in
C	2.0 in
D	3.25 in



Standard Features

- Protects load cells from voltage transients
- Compatible with signals down to 1 µV per grad
- Factory serviceable
- Full six-wire with shield protection
- #6 SEMS screw type; accepts spade lugs, tinned leads or bare wires up to #12 AWG
- Up to eight parallel or summed load cells

Applications

- Installations exposed to significant transients
- Environments where serial communication lines and load cells must be protected

Specifications

Protection Type:
Six-wire type with separate shield

Maximum Excitation Voltage:
20 VDC or 20 VAC

Clamping Voltage:
75 VDC or 75 VAC

Clamping Time:
75 VDC Stages <100 nanoseconds typical

Peak Surge Currents:
75 VDC Stage, 5,000 amps

Maximum Serial Transmission Rate:
50K baud

Series Resistance:
0.219 ohm typical

Series Inductance:
110 µH typical

Grounding:
20 ft insulated #10 AWG wire

Cable Fitting:
(2) Nylon strain relief for 0.079 to 0.236 in diameter cable

Enclosure:
NEMA Type 4X, maximum 40 psi washdown Fiberglass Reinforced Polyester (FRP)

Temperature:
Operating:
4 °F to 104 °F (-10 °C to 40 °C)

Circuit Board:
6.75 × 4.75 in with anti-fungal coating

Dimensions:
(L × W × H)
7.63 × 6.63 × 3.25 in

Warranty:
One-year limited

TP232

RS-232 Serial Surge Protection



Standard Features

- Two metal mounting brackets
- Three stages of protection: Gas discharge tube, series resistor and transient voltage suppressor (TVS)
- Two terminal posts for ground
- RS-232 high energy surge protector
- Terminal blocks for transmit, receive, request to send, clear to send and signal ground
- Safe for use with computers and PLCs
- Also works with RS-485, RS-422 and 20 mA

Applications

- Indicators, remote displays, printers, computers and PLCs

Specifications

Clamping Voltage (Stage One):
72 V DC minimum, 108 V DC maximum

Series Resistance (Stage Two):
2.7 ohm

Clamping Voltage (Stage Three):
14.3 V minimum, 15.7 V maximum

Clamping Time:
< 5 × 10 ? seconds

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Connectors:
Five-position terminal blocks

Dimensions:
(L × W × H)
Approximately 4.5 × 3.3 × 1.8 in

Warranty:
One-year limited

Approvals:
CE Listed

Approvals

CE

Part Number/Price

Part #	Description	Price
69201	TP232	$190.00

Options/Accessories

Part #	Description	Price
17778	12 in ground strap	$22.00
17781	24 in ground strap	$22.00
69516	Additional installation manual	$6.00

Ranger 1

Variable Range Simulator



Standard Features

- ABS plastic case, weighs less than 1 lb
- Large vernier knob, smooth 10-turn potentiometer
- Ideal tool for troubleshooting a scale system, bench testing stability of indicators and setpoint simulation

Specifications

Variable Range:
0 to 3 mV/V

Impedance:
700 ohm nominal

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Connectors:
Binding posts suitable for banana plug or 14 gauge wire

Temperature Coefficient:
±100 ppm/ °C

Dimensions:
(L × W × H)
4.5 × 3.5 × 1.25 in
(114 × 89 × 32 mm)

Warranty:
One-year limited

Part Number/Price

Part #	Description	Price
68029	Ranger 1 variable range simulator	$160.00

Options/Accessories

Part #	Description	Price
21116	Cable (4 ft) with banana plugs	$70.00

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Ranger 3

Variable Range Simulator



Part Number/Price

Part #	Description	Price
68030	Ranger 3 simulator	$425.00

Options/Accessories

Part #	Description	Price
21116	Cable (4 ft) with banana plugs	$70.00

Standard Features

- ABS plastic case, weighs less than 1 lb
- Fixed rotary switch, -0.5 mV/V to 4.5 mV/V in nine steps of 0.5 mV/V per step
- Ideal tool for calibrating the indicator A/D offset and gain setting
- A/D calibration steps for -0.5 mV/V for offset and 4.5 mV/V for gain
- Used in troubleshooting and testing systems

Specifications

Range:
-0.5 mV/V to 4.5 mV/V

Impedance:
350 ohm nominal

Nonlinearity:
Less than 0.02%

Connectors:
Binding posts suitable for banana plug or 14-gauge wire

Temperature Coefficient:
±5 ppm/ °C

Dimensions:
(L × W × H)
4.5 × 3.5 × 1.25 in

Warranty:
One-year limited

Ranger 5

Variable Range Simulator



Standard Features

- ABS plastic case, weighs less than 1 lb
- Fixed rotary switch, -0.5 mV/V to 4.5 mV/V in nine steps of 0.5 mV/V per step
- 10-turn vernier knob with locking graduated dial
- Vernier selection of four ranges: Off, Fine, Medium and Coarse
- Ideal tool for calibrating indicator A/D offset and gain setting
- A/D calibration steps for -0.5 mV/V for offset and 4.5 mV/V for gain
- Used in testing, troubleshooting and calibrating digital weight indicator

Specifications

Fixed Steps:
-0.5 mV/V to 4.5 mV/V

Vernier:
Variable range: up to 0.5 mV/V, up to 1 mV/V, up to 1.5 mV/V

Impedance:
350 ohm nominal

Nonlinearity:
Less than 0.02%

Connectors:
Binding posts suitable for banana plug or 14 gauge wire

Temperature Coefficient:
± 5 ppm/ °C

Dimensions:
(L × W × H)
4.5 × 3.5 × 1.25 in

Warranty:
One-year limited

Part Number/Price

Part #	Description	Price
68031	Ranger 5 simulator	$695.00

Options/Accessories

Part #	Description	Price
21116	Cable (4 ft) with banana plugs	$70.00

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Ranger 7

Variable Range Simulator



Standard Features

- High resolution design
- Used in high precision testing, troubleshooting and calibrating digital weight indicators
- Switchable offset
- Painted die-cast enclosure

Specifications

Vernier:
Two ranges; one is equal to the sum of the 0.05 mV/V switch and the 0 to 0.5 mV/V switch. The other is the sum of the 0.5 mV/V, 0.1 mV/V and 0.01 mV/V switches.

Load Impedance:
Three settings:
X0.5: 700 ohm
X1: 350 ohm (one standard load cell)
X4: 87.5 ohm (four load cell platform)

Linearity:
± 0.01% + 1µV

Connectors:
Low Thermal Electronics, Type 2758 precision gold plated binding posts, standard banana jacks or 14 AWG wire

Temperature Coefficient:
5 ppm/ °C

Zero Offset:
± 0.0005 mV/V

Output Range:
0 to 3 mV/V in 0.01 mV/V steps

LED Annunciators:
EXC +
EXC –
Offset ON
0.5 mV/V
0.1 mV/V

Warranty:
One-year limited

Part Number/Price

Part #	Description	Price
157323	Ranger 7 high resolution calibration simulator	$1,050.00

Options/Accessories

Part #	Description	Price
21116	Cable (4 ft) with banana plugs	$70.00

Transducer Simulator 4



Standard Features

- Designed for high accuracy
- Sealed lid with neoprene O-ring
- Dustproof and crush tested to 500 lb
- Four operational modes include: vernier adjustment, calibrated adjustment, 0.25 mV/V offset and 0.50 mV/V offset
- Ideal for setpoint or batching simulation

Specifications

Range:
Choose any fixed setting ± 0.25 mV or 0.50 mV through a 10-turn wire-wound potentiometer with locking clutch, fixed and variable

Maximum Voltage:
15 V

Linearity:
Less than ± 0.02% full scale

Temperature Coefficient:
Absolute 5 ppm/ °C; tracking less than 0.5 ppm/ °C

Load Factors:
Simulates one, two, three, four or eight 350 ohm load cells; or two, four, six, eight or 16 700 ohm load cells

Offset:
+0.25 mV/V for use with digitally calibrated meters requiring positive dead load for calibration

Connectors:
Binding posts, suitable for loose wires or banana jacks

Warranty:
One-year limited

Part Number/Price

Part #	Description	Price
22513	Transducer simulator 4	$850.00

Options/Accessories

Part #	Description	Price
21116	Cable (4 ft) with banana plugs	$70.00

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Livestock Scales

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RoughDeck® SLV 612
Single Animal Livestock Scale

RoughDeck® EQ 614
Equine Floor Scale and Indicator Package

Farm Bars 616
With 380 Indicator

Farm Bars 617
Without Instrumentation

LIVESTOCK SCALES

The following product names, logos, brands and other trademarks featured or referred to within this publication are the property of their respective trademark holders.

RoughDeck® SLV

Single Animal Livestock Scale



Approvals

Standard Features

- Mild steel construction
- Diamond safety thread plate deck
- Rigid-type structural steel channel frame
- NEMA Type 4X stainless steel side-access junction box without quick connector
- Signal trim summing board
- Four adjustable stainless steel SUREFOOT™ support feet
- SURVIVOR® EL147HE hostile environment load cell cable
- Four alloy steel load cells

Specifications

Full Scale Capacity:
4,000 lb, 1 lb increments

End Load Capacity:
125% full scale

Cable Length:
20 ft (6 m)

Warranty:
Two-year limited (scale only)

Approvals:
NTEP 92-001 Class III 4,000 d

Capacity not to exceed 4,000 lb x 1 lb and platform size not to exceed 32 sq ft

Part Number/Price

Part #	Capacity	Outside Dimensions	Est. Weight	Price
103617	4,000 lb, 20 ft without Quick Connect, modified to fit gate and rack (scale platform only)	8 × 3 ft	565 lb	$3,700.00
78452	4,000 lb, 20 ft without Quick Connect (gate and rack not included) (scale platform only)	8 × 3 ft	565 lb	$3,700.00
103619	4,000 lb, 20 ft without Quick Connect, modified to fit gate and rack (scale platform only)	8 × 4 ft	750 lb	$3,800.00
78453	4,000 lb, 20 ft without Quick Connect (gate and rack not included) (scale platform only)	8 × 4 ft	750 lb	$3,800.00
RoughDeck SLV 4,000 lb Bundle Package (Ships Assembled)				
231387	Scale Pkg, 3 × 8 ft, 4,000 lb capacity with swing gates, racks, kick plates, 380 Synergy indicator, factory calibrated prior to shipping with 1 lb increments.	8 × 3 ft	1,200 lb	$6,500.00
231388	Scale Pkg, 3 × 8 ft, 4,000 lb capacity with slide gates, racks, kick plates, 380 Synergy indicator, factory calibrated prior to shipping with 1 lb increments.	8 × 3 ft	1,310 lb	$9,200.00
231389	Scale Pkg, 4 × 8 ft, 4,000 lb capacity with swing gates, racks, kick plates, 380 Synergy indicator, factory calibrated prior to shipping with 1 lb increments.	8 × 4 ft	1,500 lb	$7,100.00
231390	Scale Pkg, 4 × 8 ft, 4,000 lb capacity with slide gates, racks, kick plates, 380 Synergy indicator, factory calibrated prior to shipping with 1 lb increments.	8 × 4 ft	1,610 lb	$9,800.00

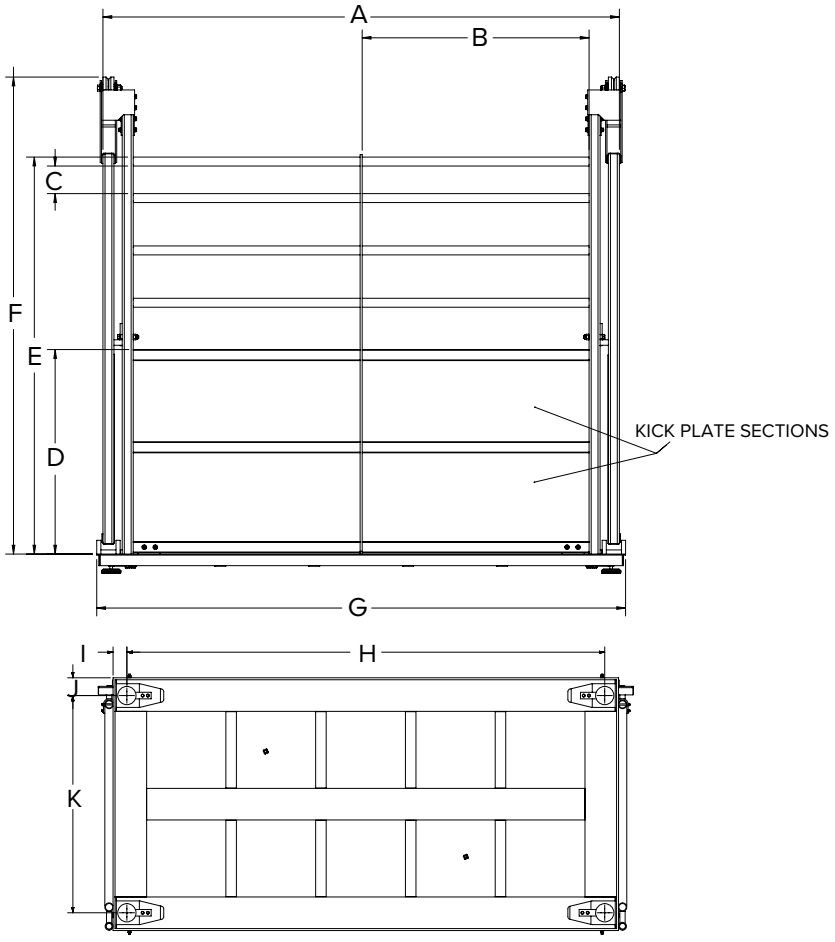
Options/Accessories

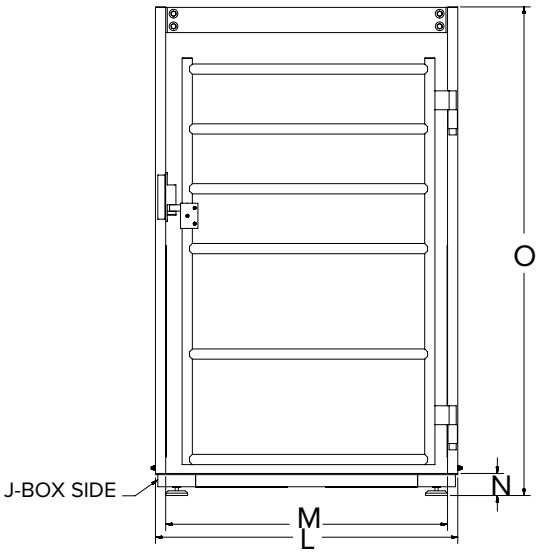
Part #	Description	Price
Consult	Smooth deck instead of diamond safety tread plate	N/C
Consult	Stainless steel load cells (RL32018S IP66) and hardware	$120.00 list price add-on
Consult	Stainless steel hermetically sealed load cells (RL32218S-HE IP69K) and hardware	$440.00 list price add-on
Consult	Angle iron bolted to scale for wood deck provisions (wood to be supplied by customer)	$225.00
Consult	Rubber mat	Consult
226036	380 universal segmented LCD display, battery powered, Synergy Series with 4-pin quick connect ag scale cable	$785.00
18777	Floor anchor plates, mild steel (set of 2)	$40.00
18778	Floor anchor plates, stainless steel (set of 2)	$55.00

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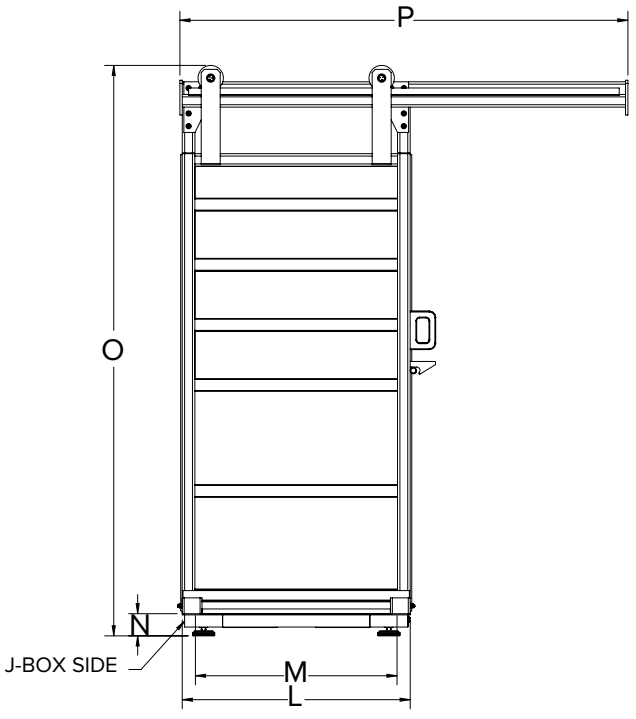
Dimensions

RoughDeck SLV			
3 × 8 ft			
A	93.75 in	I	2.62 in
B	41.19 in	J	3.38 in
C	5.01 in	K	29.25 in
D	37.12 in	L	36.00 in
E	72.06 in	M	31.84 in
F	74.00 in (swing gate) 86.59 in (slide gate)	N	3.50 in
G	96.00 in	O	77.50 in (swing gate) 90.09 in (slide gate)
H	90.76 in	P	70.75 in
4 × 8 ft			
A	93.75 in	I	2.62 in
B	41.19 in	J	3.38 in
C	5.01 in	K	41.25 in
D	37.12 in	L	48.00 in
E	72.06 in	M	43.85 in
F	74.00 in (swing gate) 86.59 in (slide gate)	N	3.50 in
G	96.00 in	O	77.50 in (swing gate) 90.09 in (slide gate)
H	90.76 in	P	94.75 in





View of swing gate

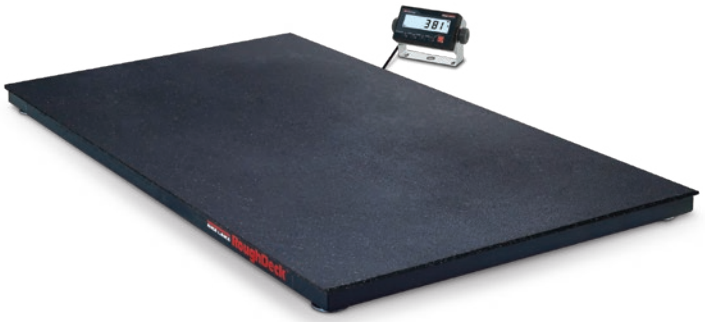


View of slide gate

LIVESTOCK SCALES

RoughDeck® EQ

Equine Floor Scale and Indicator Package



Part Number/Price

Part #	Size (W × L × H)	Capacity	Est. Weight	Price
RoughDeck EQ Floor Scale with 381 Indicator				
231030	4 ft × 6 ft × 4.25 in	2,500 × 0.5 lb	610 lb	$3,350.00

Note: Height includes stall mat

Options/Accessories

Part #	Description	Price
Consult	Access ramps	+ Consult list price add-on
Consult	Smooth deck instead of diamond safety tread plate	N/C
12839*	50 lb cast iron calibration weights	$250.00
207812	Guide rail, 5.66 ft long × 4.36 ft high, field installable, black matte finish	+$295.00 list price add-on
18777	Floor anchor plates	$40.00
Consult	Hermetically sealed load cells	Consult

**Quantity of 5 weights is recommended for 10% of capacity.*



RoughDeck EQ with two optional guide rails installed

Standard Features

- Package includes 4 ft × 6 ft × 4.25 in floor scale with stall mat, 20 ft of SURVIVOR® EL147HE hostile environment load cell cable and indicator
- Mat thickness 0.75 in

Scale

- Heavy-duty design with structural steel channel frame
- Stall mat to reduce noise and instill equine comfort
- Four adjustable stainless steel SUREFOOT™ support feet
- Powder-coated black matte finish

Indicator

- LCD display
- Battery powered
- Push-button and keyed tare
- Two communication ports
- Five tactile butto ns
- Configurable print f ormats
- ABS enclosure

RoughDeck EQ Specifications

End Load Capacity:
100% full scale at 2,500 lb

Load Cells:
Model RL32018 alloy steel environmentally sealed IP66

Junction Box:
Side access, TuffSeal JB4SS stainless steel, NEMA Type 4X with a signal card

Feet:
Stainless steel SUREFOOT, adjustable (+0.25 in or -0.125 in) for leveling the scale

Finish:
Powder coat painted, black matte

Cable Length:
20 ft (6.1 m) for connecting scale junction box to indicator

Threaded Eyebolt:
One lifting hole located in center of scale for easy install (requires 1/2-20NF eyebolt, not included)

Warranty:
Two-year limited

381 Specifications

Power:
Battery: AA or Nickel Metal Hydride (NiMH)
381-2D-AA Adapter: 115/230 VAC to 12 VDC
381-2D-NiMH Charger: 115/230 VAC

Battery Life:
AA: 40 hours with one × 350 ohm load cell
NiMH: 80 hours with one × 350 ohm load cell

Communication Ports:
One full-duplex RS-232
One USB 2.0

Display:
Six 1 in (25 mm) tall, LCD digits

Annunciators:
g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Keys/Buttons:
Five tactile buttons

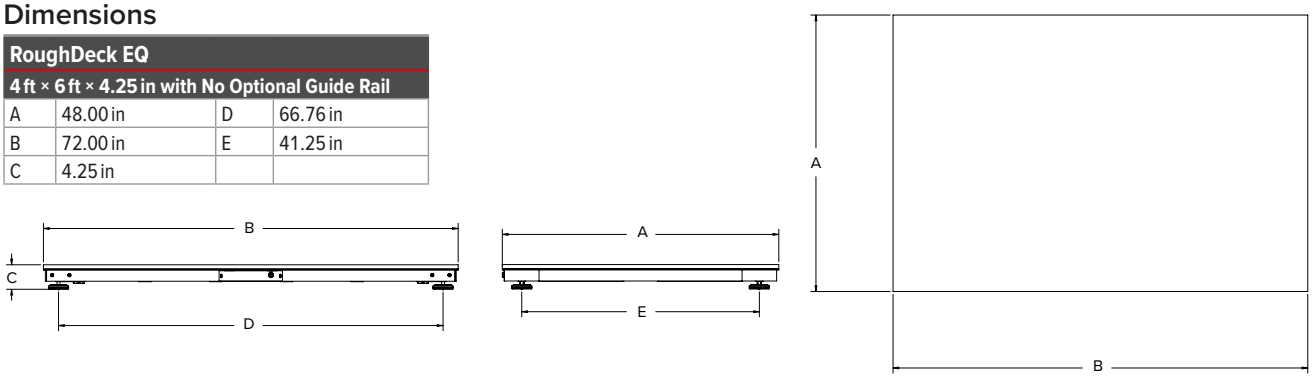
Rating/Material:
AA Battery: IP54, ABS
NiMH Battery: IP66, ABS

Approvals:
NTEP 21-051 Class III/IIIL, 10,000 d
Measurement Canada AM-6184

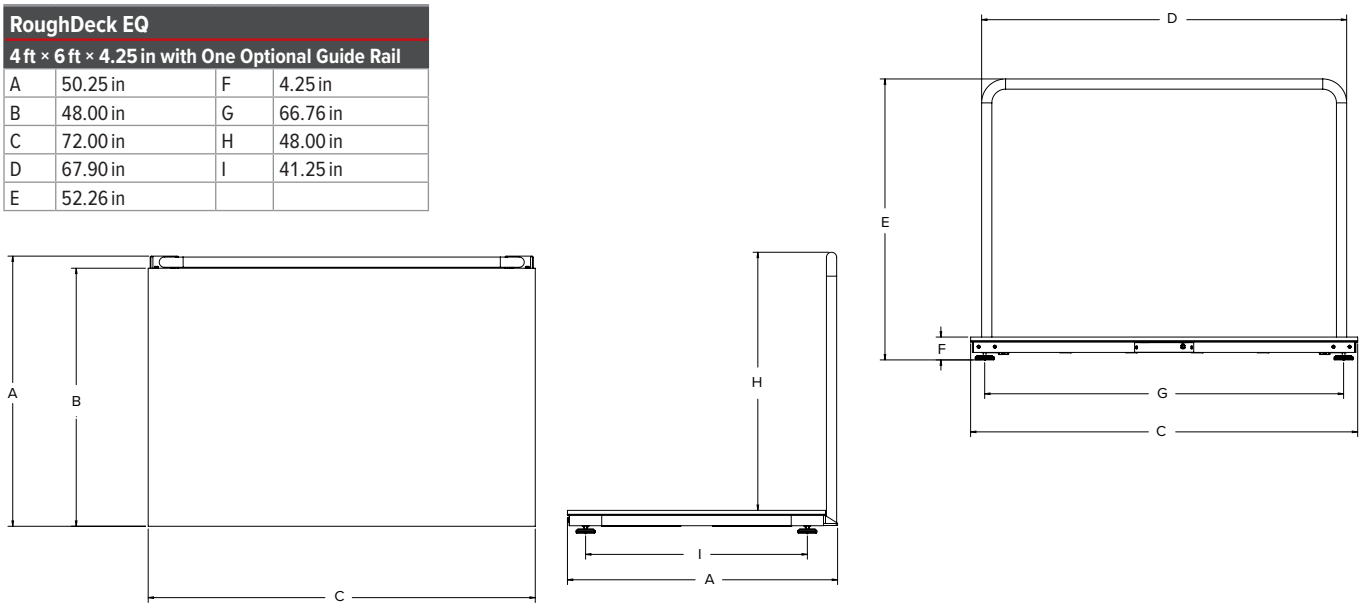
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Dimensions

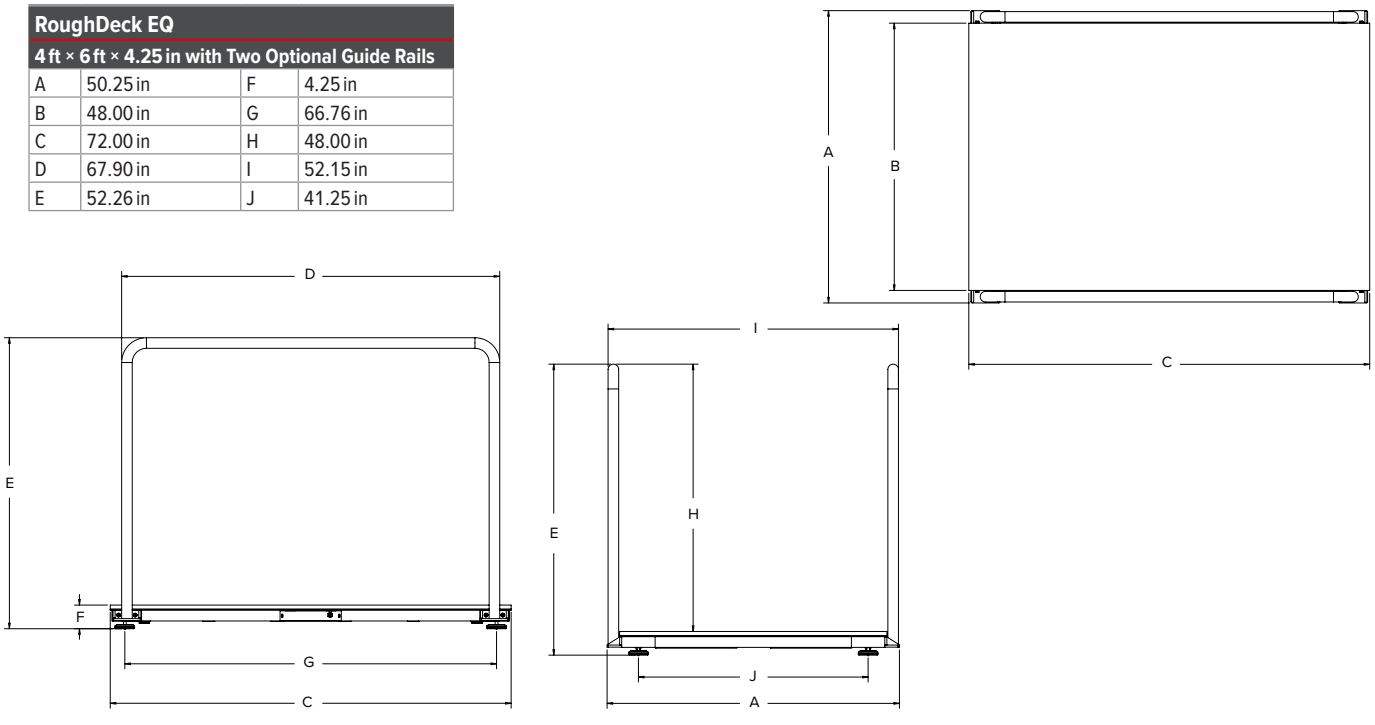
RoughDeck EQ			
4 ft × 6 ft × 4.25 in with No Optional Guide Rail			
A	48.00 in	D	66.76 in
B	72.00 in	E	41.25 in
C	4.25 in		



RoughDeck EQ			
4 ft × 6 ft × 4.25 in with One Optional Guide Rail			
A	50.25 in	F	4.25 in
B	48.00 in	G	66.76 in
C	72.00 in	H	48.00 in
D	67.90 in	I	41.25 in
E	52.26 in		



RoughDeck EQ			
4 ft × 6 ft × 4.25 in with Two Optional Guide Rails			
A	50.25 in	F	4.25 in
B	48.00 in	G	66.76 in
C	72.00 in	H	48.00 in
D	67.90 in	I	52.15 in
E	52.26 in	J	41.25 in

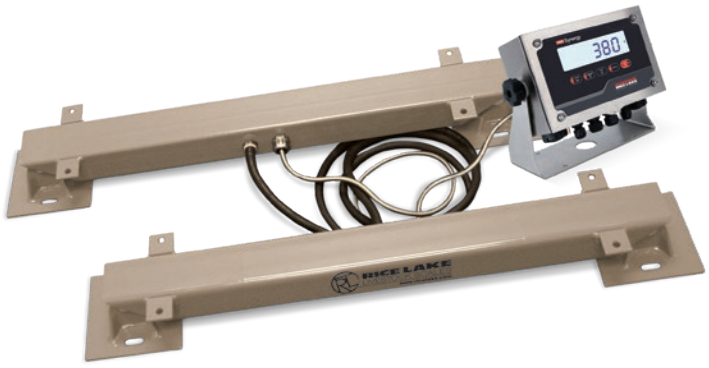


LIVESTOCK SCALES

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Farm Bars

With 380 Indicator



Part Number/Price

Part #	Description	Est. Weight	Price
With 380 Indicator			
2,500 lb Capacity			
214517	2,500U 22 – Farm Bar Kit, 22 in with 380, 2,500 capacity, square pads	98 lb	$3,800.00
5,000 lb Capacity			
214518	5,000U 26 – Farm Bar Kit, 26 in with 380, 5,000 capacity, square pads	117 lb	$4,300.00
214519	5,000U 33 – Farm Bar Kit, 33 in with 380, 5,000 capacity, square pads	123 lb	$4,300.00
214520	5,000U 36 – Farm Bar Kit, 36 in with 380, 5,000 capacity, square pads	128 lb	$4,300.00
214521	5,000U 40 – Farm Bar Kit, 40 in with 380, 5,000 capacity, square pads	134 lb	$4,300.00
214522	5,000U 44 – Farm Bar Kit, 44 in with 380, 5,000 capacity, square pads	140 lb	$4,300.00
214523	5,000U 48 – Farm Bar Kit, 48 in with 380, 5,000 capacity, square pads	146 lb	$4,300.00
10,000 lb Capacity			
214524	10,000U 32 – Farm Bar Kit, 32 in with 380, 10,000 capacity, square pads	152 lb	$5,400.00
214525	10,000U 36 – Farm Bar Kit, 36 in with 380, 10,000 capacity, square pads	152 lb	$5,400.00
214526	10,000U 48 – Farm Bar Kit, 48 in with 380, 10,000 capacity, square pads	175 lb	$5,400.00
214527	10,000U 60 – Farm Bar Kit, 60 in with 380, 10,000 capacity, square pads	210 lb	$5,400.00
214528	10,000U 72 – Farm Bar Kit, 72 in with 380, 10,000 capacity, square pads	230 lb	$5,400.00

Options/Accessories

Part #	Description	Price
159788	Extension cable, farm bar, 10 ft long	$273.00
127556	Home run cable, 12 ft long, 4-pin male to blunt end, for indicator	$130.00
202711	380 Universal Segmented LCD Display, Battery Powered	$705.00
206433	Power supply, 12 V 6 W	$60.00
23113	Printer TM-U295	$693.00
71630	Scale tickets, 500/pack	$60.00
15547	Blunt end to DB25, RS-232 cable for printer to indicator	$70.00

Standard Features

- Indicator cable length 12 ft
- 3 ft ArmorGuard cable included
- Kit includes 380 Synergy Series digital weight indicator powered by four C-cell batteries (not included)
- Factory calibrated when sold with instrumentation
- Capacities from 2,500 to 10,000 lb
- Non-Legal for Trade

Specifications

Safe Overload:
150%

Full Scale Output:
3 mv/V nominal
Output is standardized for each model of load bar, consult factory for details

Maximum Excitation:
15 VDC

Nonlinearity:
0.02% full scale

Hysteresis:
0.02% full scale

Bridge Resistance:
350 ohm

Temperature:
-40 °F to 111 °F (-40 °C to 44 °C)

Cable Configuration:
8 ft cable between bars, hard-wired
12 ft cable with quick disconnect for the indicator

Warranty:
Two-year limited

380 Specifications

Power:
Batteries: Four alkaline C-cell (not included)
Optional: 115/230 VAC to 12 VDC adapter

Battery Life:
100 hours with 1 × 350 ohm load cell, no backlight

Communication Ports:
One RS-232 (three-wire)
One USB 2.0

Annunciators:
g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Display:
Six 1 in (25 mm) tall, LCD digits

Keys/Buttons:
Five tactile buttons

Rating/Material:
IP66
Stainless steel

Approvals:
NTEP 21-051
Measurement Canada AM-6184
CE
cULus

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Standard Features

- 3 ft ArmorGuard cable included
- Capacities from 2,500 to 10,000 lb
- Non-Legal for Trade

Specifications

Safe Overload:
150%

Full Scale Output:
3 mv/V nominal
Output is standardized for each model of load bar, consult factory for details

Maximum Excitation:
15 VDC

Nonlinearity:
0.02% full scale

Hysteresis:
0.02% full scale

Bridge Resistance:
350 ohm

Temperature:
-40 °F to 111 °F (-40 °C to 44 °C)

Cable Configuration:
8 ft between bars, hard-wired
12 ft cable with quick disconnect for the indicator

Warranty:
Two-year limited

Part Number/Price

Part #	Description	Est. Weight	Price
2,500 lb Capacity			
152016	2,500 lb 22 – Farm Bar set, with square pads	92 lb	$3,500.00
5,000 lb Capacity			
152018	5,000 lb 26 – Farm Bar set, with square pads	111 lb	$3,900.00
152019	5,000 lb 33 – Farm Bar set, with square pads	117 lb	$3,900.00
152020	5,000 lb 36 – Farm Bar set, with square pads	122 lb	$3,900.00
152021	5,000 lb 40 – Farm Bar set, with square pads	128 lb	$3,900.00
152022	5,000 lb 44 – Farm Bar set, with square pads	134 lb	$3,900.00
152023	5,000 lb 48 – Farm Bar set, with square pads	140 lb	$3,900.00
10,000 lb Capacity			
185437	10,000 lb 32 – Farm Bar set, with square pads	146 lb	$4,800.00
152024	10,000 lb 36 – Farm Bar set, with square pads	146 lb	$4,800.00
152025	10,000 lb 48 – Farm Bar set, with square pads	169 lb	$4,800.00
152026	10,000 lb 60 – Farm Bar set, with square pads	204 lb	$4,800.00
152027	10,000 lb 72 – Farm Bar set, with square pads	224 lb	$4,800.00

Options/Accessories

Part #	Description	Price
159788	Extension cable, farm bar, 10 ft long	$273.00
127556	Home run cable, 12 ft long, 4-pin male to blunt end, for indicator	$130.00
202711	380 Universal Segmented LCD Display, Battery Powered	$705.00
23113	Printer TM-U295	$693.00
71630	Scale tickets, 500/pack	$60.00
15547	Blunt end to DB25, RS-232 cable for printer to indicator	$70.00
206433	Power supply, 12 V 6 W	$60.00



PN 127556 Home-run cable

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Farm Bars

Dimensions

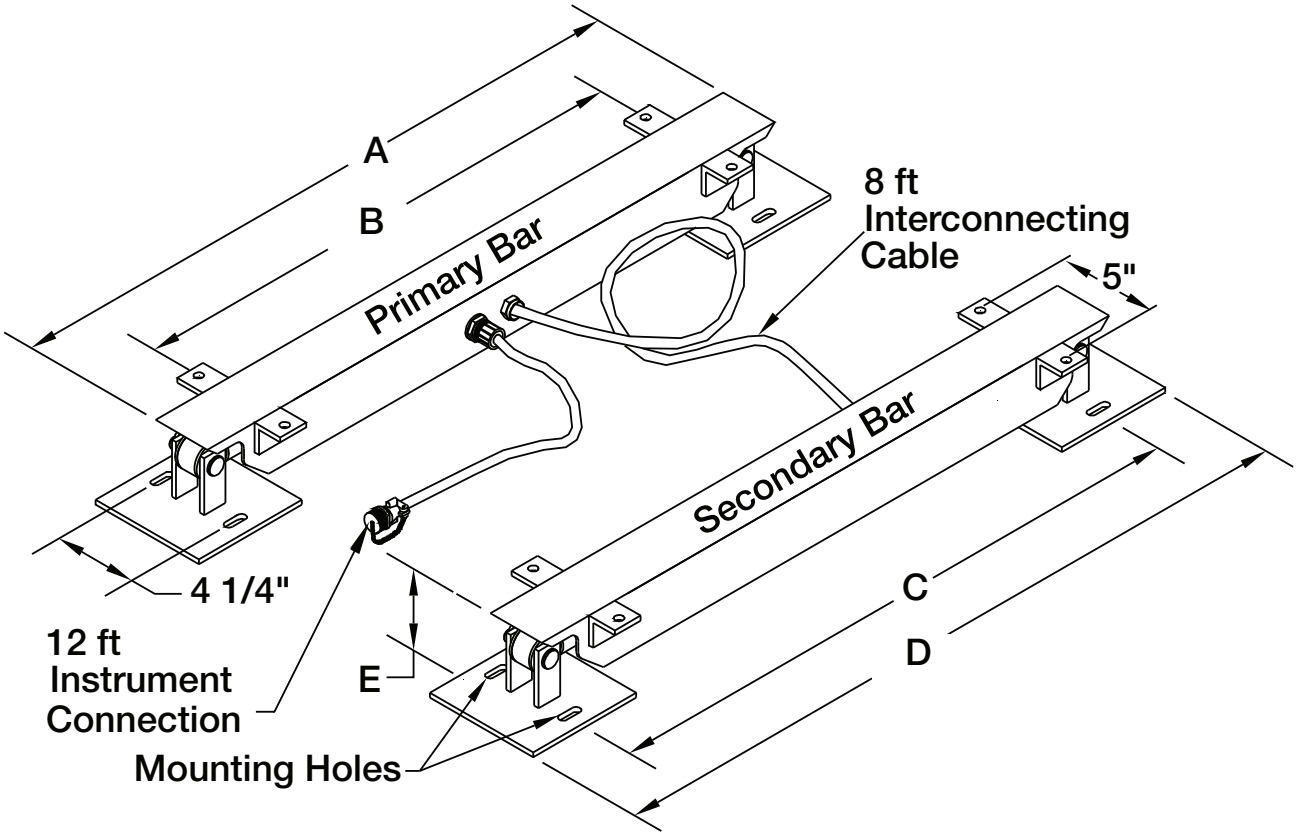
Dimensions

Farm Bar 2,500U				
A	B*	C	D*	E
22.00 in	15.00 in	19.75 in	25.75 in	4.00 in

Farm Bar 5,000U				
A	B*	C	D*	E
26.00 in	19.00 in	23.75 in	29.75 in	4.00 in
33.00 in	26.00 in	30.75 in	36.75 in	4.00 in
36.00 in	29.00 in	33.75 in	39.75 in	4.00 in
40.00 in	33.00 in	37.75 in	43.75 in	4.00 in
44.00 in	37.00 in	41.75 in	47.75 in	4.00 in
48.00 in	41.00 in	45.75 in	51.75 in	4.00 in

Farm Bar 10,000U				
A	B*	C	D*	E
32.00 in	25.00 in	29.75 in	35.75 in	4.00 in
36.00 in	29.00 in	33.75 in	39.75 in	4.00 in
48.00 in	41.00 in	45.75 in	51.75 in	4.00 in
60.00 in	53.00 in	57.75 in	63.75 in	4.00 in
72.00 in	65.00 in	69.75 in	75.75 in	4.00 in

** B equals dimension A less 7 inches*
** D equals dimension C plus 6 inches*



LIVESTOCK SCALES

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Load Cells / Weigh Modules

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RL72020 MLC Coated 704
RL72019SS 705
RL77032 706
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RL75016 709
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RL75114-50K 727

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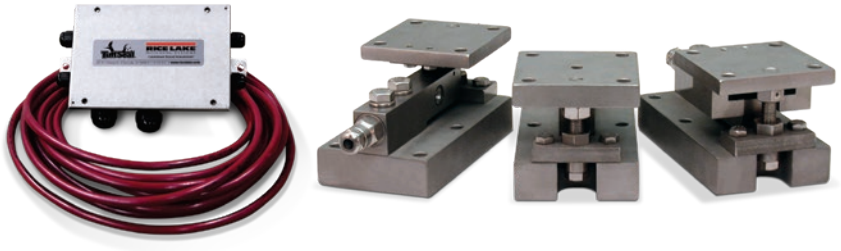
TENSION LINK

RL2010 750
MSI Load Pin Sensors 751
MSI Load Pin Questionnaire 752
MSI Tension Link 753
MSI Clamp-On 754

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SURVIVOR Paramounts® HE

Medium-capacity Weigh Module Kits



Picture is a representation of actual product.

Order Information

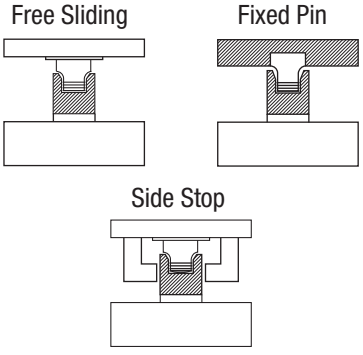
Load Rating (Per Module)	Part #	Price
NTEP Certified/OIML C3 3-Module Kit		
5 kN	**29883**	Consult
10 kN	**29884**	Consult
23 kN	**29885**	Consult
50 kN	**29886**	Consult
NTEP Certified/OIML C3 4-Module Kit		
5 kN	**29879**	Consult
10 kN	**29880**	Consult
23 kN	**29881**	Consult
50 kN	**29882**	Consult
Non-NTEP Certified 3-Module Kit		
5 kN	**17991**	Consult
10 kN	**17992**	Consult
23 kN	**17993**	Consult
50 kN	**17994**	Consult
100 kN	**17995**	Consult
Non-NTEP Certified 4-Module Kit		
5 kN	**17998**	Consult
10 kN	**17999**	Consult
23 kN	**18000**	Consult
50 kN	**18001**	Consult
100 kN	**18002**	Consult
*Conduit adapter, 1/2-14 NPT	**17703**	Consult

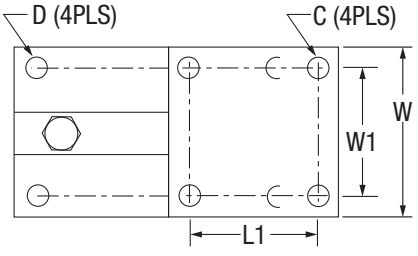
**Must be factory installed*

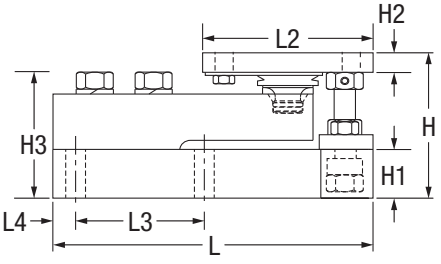
Dimensions

Rated Capacity	C	D	H	H1	*H2	**H2	H3	L	L1	L2	L3	L4	W	W1
kN/in														
5 to 23	0.44	0.44	3.58	1.25	0.50	0.75	3.06	7.51	3.00	4.00	3.00	0.50	4.00	3.00
50	0.56	0.56	4.66	1.50	0.62	1.00	4.09	9.19	3.87	5.00	3.87	0.56	5.00	3.87
100	0.69	0.69	6.41	2.00	0.75	1.25	5.73	11.46	4.75	6.00	4.75	0.69	6.00	4.75

**Side stop and free sliding units **Fixed pin units*







Complete Kit Includes

- One fixed-pin module, one side-stop module, and one or two free-sliding assemblies. Each module is complete with a Flintec SB4 stainless steel hermetically sealed load cell.
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of our hostile environment EL147HE SURVIVOR load cell cable

Standard Features

- All stainless steel construction
- Bolt-in-place design; module bolts directly to tank leg without requiring additional load buttons or mounting plates
- Load cell outputs are mV/V/ohm calibrated to minimize maintenance costs
- Unique design allows for thermal expansion/contraction
- Low-profile, self-checking design
- Jacking screw allows empty vessel to be lifted clear of load cell for maintenance
- Unique patented blind load hole technology minimizes unwanted side and eccentric loading
- Vessel is free to slide laterally on PTFE-coated surfaces

Applications

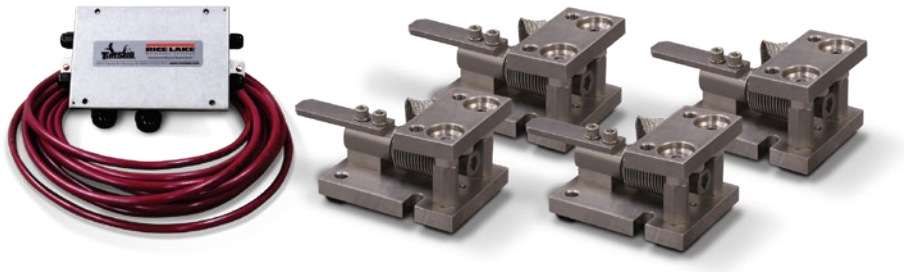
- Medium-capacity blenders and tanks
- Batching/blending
- Pharmaceutical processing
- Food processing
- Petroleum refining and batching

Load Cell Approvals

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SURVIVOR RL1700 HE

Light- to Medium-capacity Weigh Module Kits



Picture is a representation of actual product.

Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Includes Load Cell)		
5 kg	**32687**	Consult
10 kg	**32688**	Consult
20 kg	**32689**	Consult
50 kg	**32690**	Consult
100 kg	**32691**	Consult
200 kg	**32692**	Consult
250 kg	**32693**	Consult
500 kg	**32974**	Consult
1,000 kg	**32973**	Consult
2,000 kg	**32972**	Consult
5,000 kg	**32971**	Consult
3-Module Kit		
5 kg	**32920**	Consult
10 kg	**32921**	Consult
20 kg	**32922**	Consult
50 kg	**32923**	Consult
100 kg	**32924**	Consult
200 kg	**32925**	Consult
250 kg	**32926**	Consult
500 kg	**32980**	Consult
1,000 kg	**32981**	Consult
2,000 kg	**32982**	Consult
5,000 kg	**32983**	Consult
4-Module Kit		
5 kg	**32927**	Consult
10 kg	**32928**	Consult
20 kg	**32929**	Consult
50 kg	**32930**	Consult
100 kg	**32931**	Consult
200 kg	**32932**	Consult
250 kg	**32933**	Consult
500 kg	**32984**	Consult
1,000 kg	**32985**	Consult
2,000 kg	**32986**	Consult
5,000 kg	**32987**	Consult

Dimensions

Rated Capacity	C	B	*H1	**H2	L	L1	L2	L3	L4	L5	W	W1	W2	W3
kg/mm														
5 to 250	13.1	1/2-20 UNF	80.0	86.1	131.8	63.8	76.0	42.0	56.0	14.1	101.4	70.0	15.5	25.4
500 to 2,000	13.1	5/8-18 UNF	101.6	109.4	165.1	71.2	129.5	15.5	75.5	60.0	110.0	70.0	20.0	31.8
5,000	19.8	3/4-10 UNC	135.0	143.0	215.0	81.0	161.0	20.0	90.0	70.0	150.0	90.0	30.0	40.0

** In weighing position ** In jacked-up position for load cell shipping or removal*

Complete Kit Includes

- Three or four RL1700 HE stainless steel compression mounts with NTEP Certified RL9018SS (5 to 250 kg) or RLHTO (500 to 5,000 kg) stainless steel, hermetically sealed single-ended beam load cells
- One JB4SS NEMA Type 4X stainless steel signal-trim junction box
- 25 ft of our hostile environment EL147HE SURVIVOR load cell cable

Standard Features

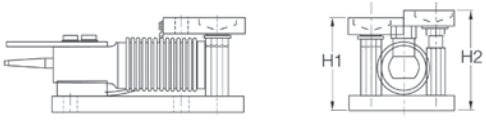
- Capacities (per module) 5 to 5,000 kg
- All stainless steel, weldless construction retains less residue and allows fast, thorough cleaning
- Bolt-in-place design; module bolts directly to tank leg without requiring additional load buttons or mounting plates
- Self-checking with lift-off/tip-over protection and jacking/shipping bolts
- Load cell is isolated from overload in all directions

Applications

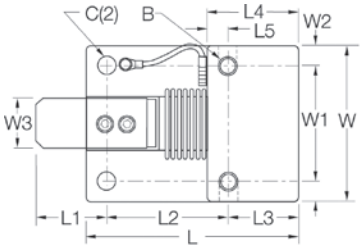
- Multi-ingredient micro-batching
- Meat and poultry processing
- Batching/blending
- Dye/ink blending

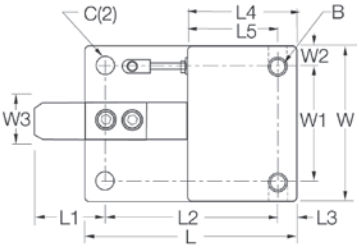
Load Cell Approvals





5 kg - 250 kg capacities





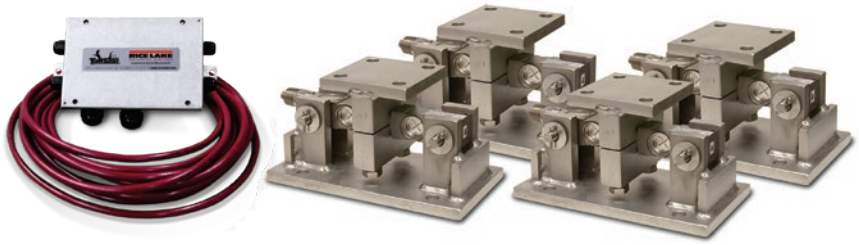
500 kg - 5000 kg capacities

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SURVIVOR RL1600 HE Series

Medium-capacity Weigh Module Kits

Discontinued



Picture is a representation of actual product.

Order Information

Load Rating (Per Module)	Part #	Price
Single Mount Does Not Include Load Cells		
1,000 to 5,000 lb	**17813**	Consult
10,000 to 25,000 lb	**17815**	Consult
3-Module Kit		
1,000 lb	**46723**	$4,500.00
1,500 lb	**119673**	Consult
2,000 lb	**119675**	Consult
2,500 lb	**46724**	$4,500.00
5,000 lb	**46725**	$4,500.00
10,000 lb	**46726**	$6,725.00
15,000 lb	**46727**	$6,725.00
20,000 lb	**84664**	Consult
25,000 lb	**46728**	$6,725.00
4-Module Kit		
1,000 lb	**46729**	$5,865.00
1,500 lb	**119674**	Consult
2,000 lb	**119676**	Consult
2,500 lb	**46730**	$5,865.00
5,000 lb	**46731**	$5,865.00
10,000 lb	**46732**	$8,800.00
15,000 lb	**46733**	$8,800.00
20,000 lb	**84665**	$8,800.00
25,000 lb	**46734**	$8,800.00
Dummy Load Cells (Mild Steel)		
1,000 to 5,000 lb	**18236**	Consult
10,000 to 25,000 lb	**18237**	Consult

Shims*

	Part #	Price
1,000 to 5,000 lb		
0.0625	**150852**	Consult
0.125	**150853**	Consult
0.250	**150854**	Consult
10,000 to 25,000 lb		
0.0625	**150855**	Consult
0.125	**150856**	Consult
0.250	**150857**	Consult

**Shims match the top plate*

Dimensions

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/in													
1,000 to 5,000	0.56	5.00	0.50	0.50	9.25	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000 to 25,000	0.78	7.87	0.75	0.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00

Complete Kit Includes

- Three or four RL1600 HE stainless steel compression mounts with RL75016WHE stainless steel, hermetically sealed double-ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of our hostile environment EL147HE SURVIVOR load cell cable

Standard Features

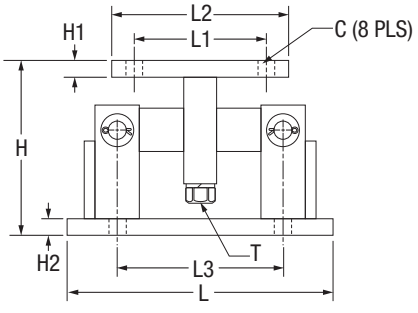
- All stainless steel construction
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Center loaded

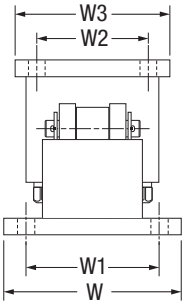
Applications

- Medium-capacity tanks, bins and hoppers
- Bulk material management
- Ingredient batching, mixing and blending

Load Cell Approvals

FM APPROVED





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SURVIVOR RL1855 HE-HS

Medium-capacity Weigh Module Kits



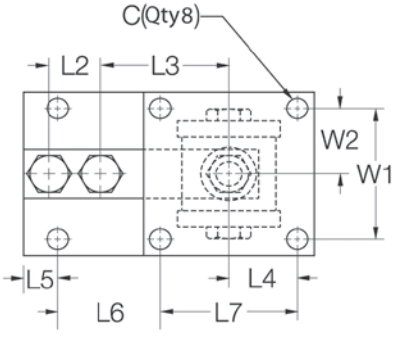
Picture is a representation of actual product.

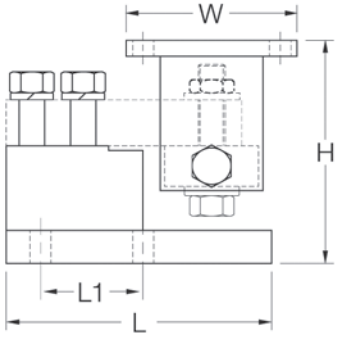
Order Information

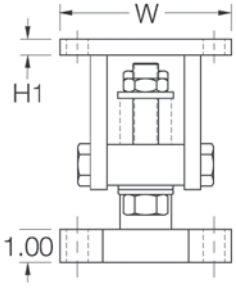
Load Rating (Per Module)	Part #	Price
Single Modules (Includes Load Cell)		
1,000 lb	**170857**	Consult
2,500 lb	**170858**	Consult
4,000 lb	**170859**	Consult
5,000 lb	**170860**	Consult
10,000 lb	**170861**	Consult
3-Module Kit		
1,000 lb	**170862**	Consult
2,500 lb	**170863**	Consult
4,000 lb	**170864**	Consult
5,000 lb	**170865**	Consult
10,000 lb	**170866**	Consult
4-Module Kit		
1,000 lb	**170867**	Consult
2,500 lb	**170868**	Consult
4,000 lb	**170869**	Consult
5,000 lb	**170870**	Consult
10,000 lb	**170871**	Consult

Dimensions

Rated Capacity	C	H min/ max	H1	L	L1	L2	L3	L4	L5	L6	L7	W	W1	W2
lb/in														
1,000 to 4,000	0.62	5.25/5.56	0.50	6.00	2.00	1.00	3.00	2.00	0.68	1.94	4.00	5.00	4.00	2.00
5,000 to 10,000	0.62	6.12/6.62	0.50	7.75	3.00	1.50	3.75	2.00	1.03	2.97	4.00	5.00	4.00	2.00







Complete Kit Includes

- Three or four RL1855 HE stainless steel mounts with RL32218S-HE NTEP Certified hermetically sealed stainless steel load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR load cell cable

Standard Features

- NTEP Certified load cells, 5,000 d Class III multiple load cell
- All stainless steel construction
- Self-checking design with lift off/tip off protection

Applications

- Medium-capacity hoppers, bins and tanks
- Batching/blending

Load Cell Approvals

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SURVIVOR RL2100 HE

Heavy-capacity Weigh Module Kits



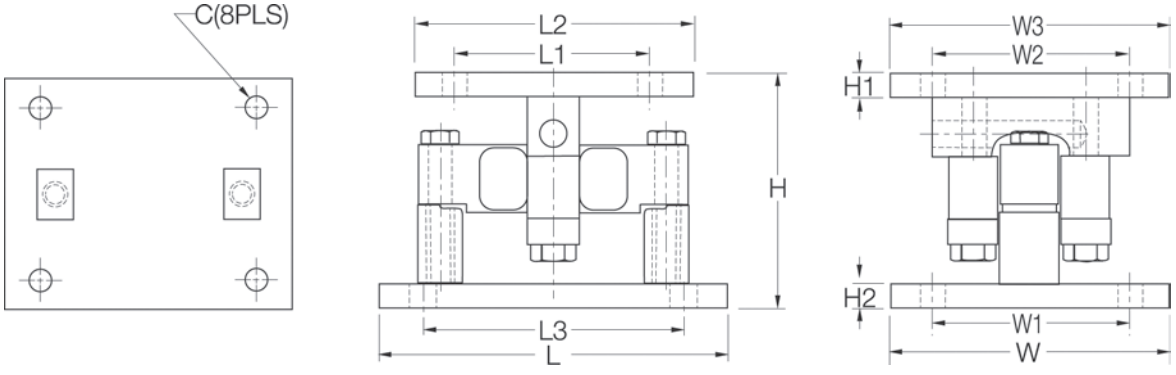
Picture is a representation of actual product.

Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Includes Load Cell)		
20,000 lb	**32951**	Consult
25,000 lb	**65541**	Consult
35,000 lb	**32952**	Consult
50,000 lb	**32953**	Consult
60,000 lb	**32954**	Consult
75,000 lb	**32955**	Consult
100,000 lb	**32956**	Consult
3-Module Kit		
20,000 lb	**32970**	Consult
25,000 lb	**65984**	Consult
35,000 lb	**32969**	Consult
50,000 lb	**32968**	Consult
60,000 lb	**32967**	Consult
75,000 lb	**32966**	Consult
100,000 lb	**32965**	Consult
4-Module Kit		
20,000 lb	**32964**	Consult
25,000 lb	**65983**	Consult
35,000 lb	**32963**	Consult
50,000 lb	**32962**	Consult
60,000 lb	**32961**	Consult
75,000 lb	**32960**	Consult
100,000 lb	**32959**	Consult

Dimensions

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	W	W1	W2	W3
lb/in												
20,000 to 25,000	0.78	6.85	0.75	0.75	10.00	6.00	8.00	7.50	8.00	6.00	6.00	8.00
35,000 to 100,000	1.13	9.42	1.00	1.00	14.00	6.50	9.00	11.50	10.00	7.50	6.50	9.00



Complete Kit Includes

- Three or four RL2100 HE stainless steel compression mounts with NTEP Certified RL75060S or RL75058S-LP stainless steel, welded seal double-ended beam load cells
- One JB4SS NEMA Type 4X stainless steel signal-trim junction box
- 25 ft of our hostile environment EL147HE SURVIVOR load cell cable

Standard Features

- NTEP Certified load cells, 5,000 d, Class IIIL/10,000 d, Class IIIL multiple cell
- All stainless steel construction
- Bolt-in-place design; module bolts directly to tank leg without requiring additional load buttons or mounting plates
- Self-checking design with lift-off/tip-over protection

Applications

- Heavy-capacity tanks, blenders, reactors and bulk inventory management
- Petroleum refining process control
- Blending/batching

Load Cell Approvals

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ITCM

Mild Steel, Isolated Tension Cell Weigh Module Kit





Picture is a representation of actual product.

Load Cell Approvals

Complete Kit Includes

- Three or four ITCM assemblies with RL20000I NTEP Certified S-beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

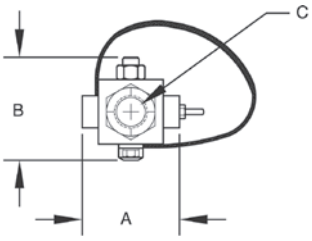
- Capacities (per module): 100 to 20,000 lb
- Clevis mounts with nylon insulating washers
- Zinc-plated clevis assemblies
- Load cell is completely isolated from stray currents (except 20,000 lb)
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies

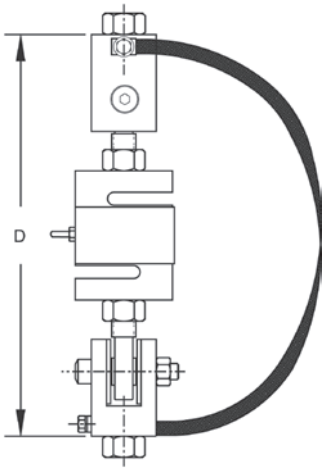
Applications

- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

Load Rating Dimensions Per Module

Load Cell Capacity	A	B	C	D	Single Module	Price	3-Module Kit	Price	4-Module Kit	Price
lb/in										
100	2.00	1.81	3/8-16 UNC 1/2-13 UNC	7.00 (ref)	**17851** **17831**	Consult Consult	**18003** **18004**	Consult Consult	**18027** **18028**	Consult Consult
150	2.00	1.81	3/8-16 UNC 1/2-13 UNC	7.00 (ref)	**30337** **30336**	Consult Consult	**30357** **30358**	Consult Consult	**30359** **30360**	Consult Consult
200	2.00	1.81	3/8-16 UNC 1/2-13 UNC	7.00 (ref)	**30335** **30338**	Consult Consult	**30361** **30362**	Consult Consult	**30363** **30364**	Consult Consult
250	2.00	1.81	3/8-16 UNC 1/2-13 UNC	7.00 (ref)	**17852** **17832**	Consult Consult	**18005** **18006**	Consult Consult	**18029** **18030**	Consult Consult
500	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**17853** **17858** **17833**	Consult Consult Consult	**18007** **18008** **18009**	Consult Consult Consult	**18031** **18032** **18033**	Consult Consult Consult
750	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**17854** **17859** **17834**	Consult Consult Consult	**18010** **18011** **18012**	Consult Consult Consult	**18034** **18035** **18036**	Consult Consult Consult
1,000	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**17855** **17860** **17835**	Consult Consult Consult	**18013** **18014** **18015**	Consult Consult Consult	**18037** **18038** **18039**	Consult Consult Consult
1,500	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**17856** **17861** **17836**	Consult Consult Consult	**18016** **18017** **18018**	Consult Consult Consult	**18040** **18041** **18042**	Consult Consult Consult
2,000	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**17857** **17862** **17837**	Consult Consult Consult	**18019** **18020** **18021**	Consult Consult Consult	**18043** **18044** **18045**	Consult Consult Consult
2,500	2.68	2.68	5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**17863** **17838**	Consult Consult	**18022** **18023**	Consult Consult	**18046** **18047**	Consult Consult
3,000	3.37	3.37	3/4-10 UNC	10.50 (ref)	**30339**	Consult	**30365**	Consult	**30366**	Consult
5,000	3.37	3.37	3/4-10 UNC 1-8 UNC	12.25 (ref)	**17864** **17839**	Consult Consult	**18024** **18025**	Consult Consult	**18048** **18049**	Consult Consult
10,000	3.37	3.37	1-8 UNC	12.25 (ref)	**17840**	Consult	**18026**	Consult	**18050**	Consult
15,000	4.00	4.12	1 1/4-7 UNC	18.00 (ref)	**17960**	Consult	**30353**	Consult	**30354**	Consult
20,000	5.00	4.12	1 1/2-6 UNC	20.00 (ref)	**17961**	Consult	**30355**	Consult	**30356**	Consult





ITCM SS

Stainless Steel, Isolated Tension Cell Weigh Module Kit





Picture is a representation of actual product.

Load Cell Approvals

Complete Kit Includes

- Three or four ITCM assemblies with RL20000ST NTEP Certified S-beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

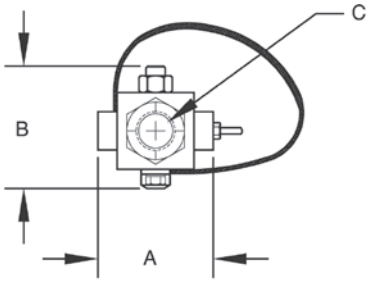
- Capacities (per module): 100 to 5,000 lb
- Clevis mounts with nylon insulating washers
- PTFE lined rod-end ball joints
- Load cell is completely isolated from stray currents
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies

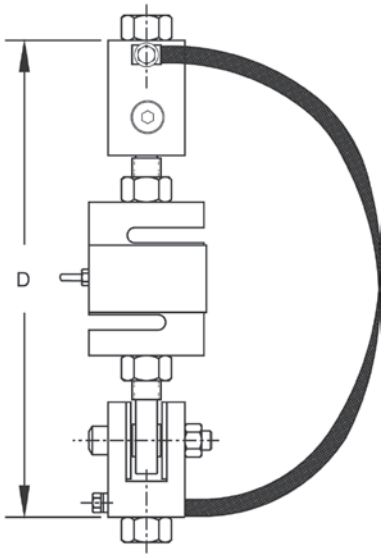
Applications

- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

Load Rating Dimensions Per Module

Load Cell Capacity	A	B	C	D	Single Module	Price	3-Module Kit	Price	4-Module Kit	Price
lb/in										
100	2.00	1.81	3/8-16 UNC 1/2-13 UNC	7.00 (ref)	**46765** **46766**	Consult Consult	**46735** **46736**	Consult Consult	**46751** **46752**	Consult Consult
250	2.00	1.81	3/8-16 UNC 1/2-13 UNC	7.00 (ref)	**46767** **46768**	Consult Consult	**46737** **46738**	Consult Consult	**46753** **46754**	Consult Consult
500	2.68	2.68	1/2-13 UNC 5/8-11 UNC	9.50 (ref)	**46769** **46770**	Consult Consult	**46739** **46740**	Consult Consult	**46755** **46756**	Consult Consult
750	2.68	2.68	1/2-13 UNC 5/8-11 UNC	9.50 (ref)	**46771** **46772**	Consult Consult	**46741** **46742**	Consult Consult	**46757** **46758**	Consult Consult
1,000	2.68	2.68	1/2-13 UNC 5/8-11 UNC	9.50 (ref)	**46773** **46774**	Consult Consult	**46743** **46744**	Consult Consult	**46759** **46760**	Consult Consult
2,500	2.68	2.68	5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**46775** **46776**	Consult Consult	**46745** **46746**	Consult Consult	**46761** **46762**	Consult Consult
3,000	3.37	3.37	3/4-10 UNC	10.75 (ref)	**46777**	Consult	**46747**	Consult	**46763**	Consult
5,000	3.37	3.37	3/4-10 UNC	12.00 (ref)	**46778**	Consult	**46748**	Consult	**46764**	Consult





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ITCM HE

Stainless Steel, Isolated Tension Cell Weigh Module Kit





Picture is a representation of actual product.

Load Cell Approvals

Complete Kit Includes

- Three or four ITCM assemblies with RL20001HE NTEP Certified S-beam, stainless steel, welded-seal load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

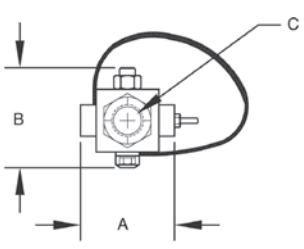
- Capacities (per module): 500 to 5,000 lb
- Clevis mounts with nylon insulating washers
- PTFE lined rod-end ball joints
- Load cell is completely isolated from stray currents
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies

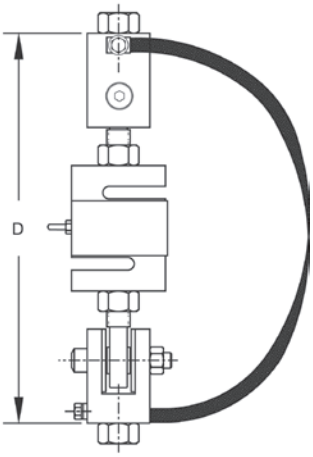
Applications

- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

Load Rating Dimensions Per Module

Load Cell Capacity	A	B	C	D	Single Module	Price	3-Module Kit	Price	4-Module Kit	Price
lb/in										
500	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**46599** **46600** **46601**	Consult Consult Consult	**46561** **46562** **46563**	Consult Consult Consult	**46580** **46581** **46582**	Consult Consult Consult
750	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**46602** **46603** **46604**	Consult Consult Consult	**46564** **46565** **46566**	Consult Consult Consult	**46583** **46584** **46585**	Consult Consult Consult
1,000	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**46605** **46606** **46607**	Consult Consult Consult	**46567** **46568** **46569**	Consult Consult Consult	**46586** **46587** **46588**	Consult Consult Consult
1,500	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**46608** **46609** **46610**	Consult Consult Consult	**46570** **46571** **46572**	Consult Consult Consult	**46589** **46590** **46591**	Consult Consult Consult
2,000	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**46611** **46612** **46613**	Consult Consult Consult	**46573** **46574** **46575**	Consult Consult Consult	**46592** **46593** **46594**	Consult Consult Consult
2,500	2.68	2.68	5/8-11 UNC 3/4-10 UNC	9.50 (ref)	**46614** **46615**	Consult Consult	**46576** **46577**	Consult Consult	**46595** **46596**	Consult Consult
3,000	3.37	3.37	3/4-10 UNC	10.00 (ref)	**46616**	Consult	**46578**	Consult	**46597**	Consult
5,000	3.37	3.37	3/4-10 UNC	12.62 (ref)	**46617**	Consult	**46579**	Consult	**46598**	Consult





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RL50210TA

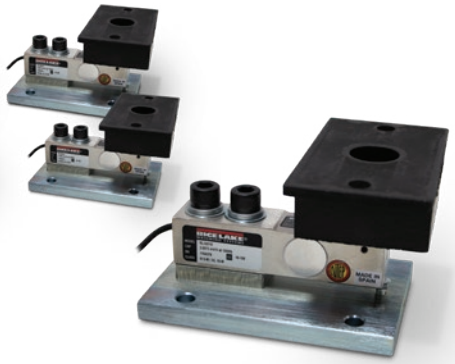
Mild Steel/Stainless Steel, Mini Tank Weigh Module Kit



RL50210TA mild steel (50 lb-250 lb)







Picture is a representation of actual product.

NTEP Certified 1,000 lb mild steel load cell shown.

Load Cell Approvals

Complete Kit Includes

- Three or four neoprene isolation/compression mounts with load cells
  - 50 to 250 lb mild steel: RL50210
  - 500 lb mild steel: RL30000, RL50210 or RL50225
  - 1,000 to 2,500 lb mild steel: RL32018
  - 500 lb stainless steel: RL39123 or equivalent
  - 1,000 to 2,500 lb stainless steel: RL32018S
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- NTEP Certified load cells (1,000 lb, 2,000 lb and 2,500 lb only)
- Zinc plated mild steel or stainless steel assemblies
- Weighing ranges from 50 to 2,500 lb per module
- Neoprene isolation mounts allow for minor misalignment, thermal expansion and shock absorption
- Overload stop provides durability

Applications

- Small tanks and hoppers
- Conveyor/In-motion weighing
- Small platform scales where minor shock loading may occur

Optional Features

- Stainless steel modules available in 500 lb capacities with RL39123 stainless steel load cells

Order Information

Load Rating (Per Module)	Part #	Price
Non-NTEP Certified Mild Steel Single Module (Includes Load Cell)		
50 lb	**17844**	Consult
100 lb	**17845**	Consult
150 lb	**17846**	Consult
250 lb	**17847**	Consult
500 lb	**17848**	Consult
NTEP Certified Mild Steel Single Module (Includes Load Cell)		
1,000 lb	**17849**	Consult
2,000 lb	**17948**	Consult
2,500 lb	**17949**	Consult
Non-NTEP Certified Mild Steel 3-Module Kit		
50 lb	**18051**	Consult
100 lb	**18052**	Consult
150 lb	**18053**	Consult
250 lb	**18054**	Consult
500 lb	**18055**	Consult
NTEP Certified Mild Steel 3- Module Kit		
1,000 lb	**18056**	Consult
2,000 lb	**30398**	Consult
2,500 lb	**30396**	Consult
Non-NTEP Certified Mild Steel 4-Module Kit		
50 lb	**18057**	Consult
100 lb	**18058**	Consult
150 lb	**18059**	Consult
250 lb	**18060**	Consult
500 lb	**18061**	Consult

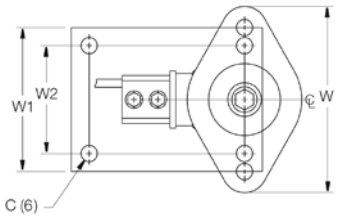
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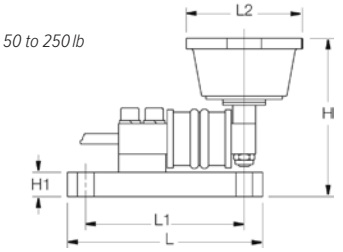
Order Information

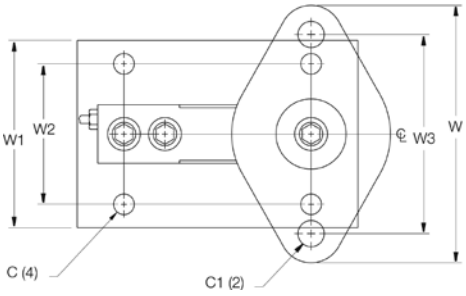
Load Rating (Per Module)	Part #	Price
NTEP Certified Mild Steel 4- Module Kit		
1,000 lb	**18062**	Consult
2,000 lb	**30397**	Consult
2,500 lb	**30395**	Consult
Stainless Steel Single Module (Includes Load Cell)		
500 lb	**17954**	Consult
1,000 lb	**17955**	Consult
2,000 lb	**17956**	Consult
2,500 lb	**17957**	Consult
Stainless Steel 3-Module Kit		
500 lb	**30394**	Consult
1,000 lb	**30404**	Consult
2,000 lb	**30402**	Consult
2,500 lb	**30400**	Consult
Stainless Steel 4-Module Kit		
500 lb	**30393**	Consult
1,000 lb	**30403**	Consult
2,000 lb	**30401**	Consult
2,500 lb	**30399**	Consult

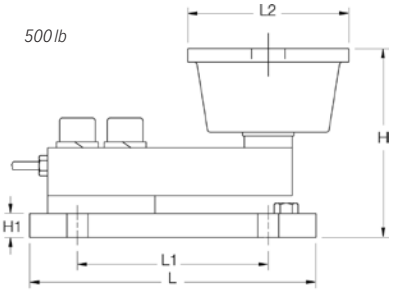
Dimensions

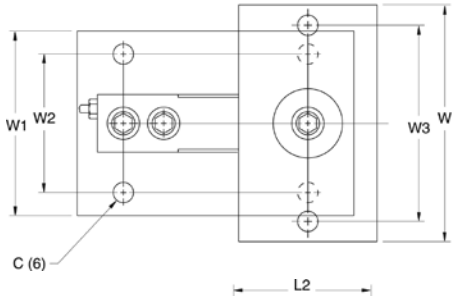
Rated Capacity	C	C1	H	H1	L	L1	L2	W	W1	W2	W3
lb/in											
50 to 250	0.34	-	3.13	0.50	4.00	3.25	2.38	3.88	3.00	2.25	-
500	0.44	0.56	3.88	0.50	6.00	4.00	3.38	5.50	4.00	3.00	4.13
1,000	0.44	-	4.00	0.50	6.00	4.00	3.00	5.13	4.00	3.00	4.13
2,000 to 2,500	0.44	0.56	4.00	0.50	6.00	4.00	4.62	6.25	4.00	3.00	5.00

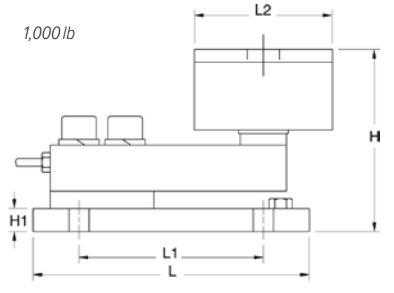


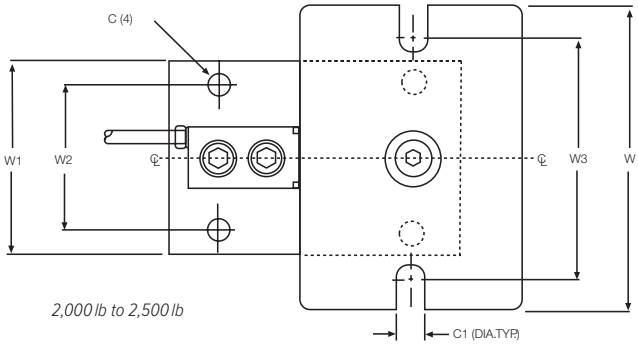


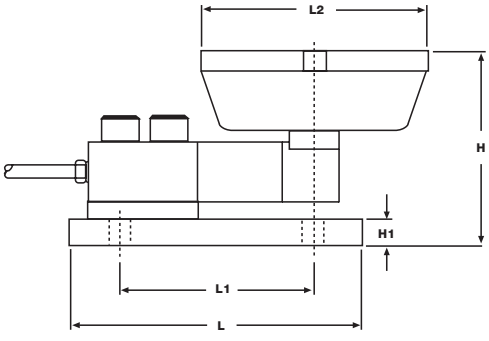












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65059

Mild Steel/Stainless Steel, Mini Tank Weigh Module Kit, VPG® Sensortronics®



NTEP Certified 1,000 lb load cell shown.

65059 mild steel (50 lb to 250 lb)

Picture is a representation of actual product.

Load Cell Approvals

1,000 to 2,500 lb

Complete Kit Includes

- Three or four neoprene isolation/compression mounts with load cells. (1,000 to 2,500 lb are NTEP Certified)
  - 50 to 250 lb mild steel: 60040
  - 500 lb mild steel: 65023-500-0107
  - 1,000 to 2,500 lb mild steel: 65023A1K-5107
  - 500 lb stainless steel: 65023-500-0113
  - 1,000 to 2,500 lb stainless steel: 65023S1K-5113
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Zinc plated, mild steel modules
- Lower weighing ranges from 50 to 500 lb per module
- Environmentally protected load cells
- 1,000 to 2,500 lb capacities are NTEP Certified
- Neoprene isolation/compression mounts allow for minor misalignment, thermal expansion and shock absorption
- Overload stop for 500 lb modules provides durability

Applications

- Small tanks and hoppers
- Conveyor/In-motion weighing
- Small platform scales where minor shock loading may occur

Order Information

Load Rating (Per Module)	Part #	Price
Mild Steel Single Module (Includes Load Cell)		
50 lb	**17825**	Consult
100 lb	**17826**	Consult
150 lb	**17827**	Consult
250 lb	**17828**	Consult
500 lb	**17829**	Consult
1,000 lb	**17830**	Consult
2,000 lb	**17946**	Consult
2,500 lb	**17947**	Consult
Mild Steel 3-Module Kit		
50 lb	**18063**	Consult
100 lb	**18064**	Consult
150 lb	**18065**	Consult
250 lb	**18066**	Consult
500 lb	**18067**	Consult
1,000 lb	**18068**	Consult
2,000 lb	**30413**	Consult
2,500 lb	**30412**	Consult
Mild Steel 4-Module Kit		
50 lb	**18069**	Consult
100 lb	**18070**	Consult
150 lb	**18071**	Consult
250 lb	**18072**	Consult
500 lb	**18073**	Consult
1,000 lb	**18074**	Consult
2,000 lb	**30414**	Consult
2,500 lb	**30411**	Consult

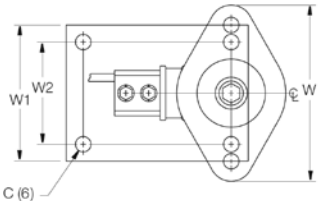
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Order Information

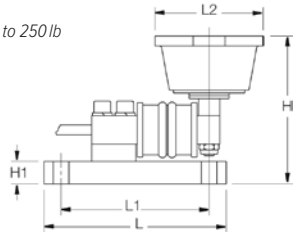
Load Rating (Per Module)	Part #	Price
Stainless Steel Single Module (Includes Load Cell)		
500 lb	**17950**	Consult
1,000 lb	**17951**	Consult
2,000 lb	**17952**	Consult
2,500 lb	**17953**	Consult
Stainless Steel 3-Module Kit		
500 lb	**30392**	Consult
1,000 lb	**30410**	Consult
2,000 lb	**30408**	Consult
2,500 lb	**30406**	Consult
Stainless Steel 4-Module Kit		
500 lb	**30391**	Consult
1,000 lb	**30409**	Consult
2,000 lb	**30407**	Consult
2,500 lb	**30405**	Consult

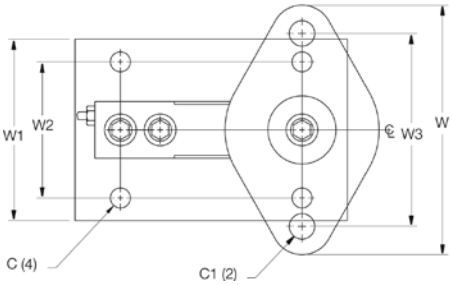
Dimensions

Rated Capacity	C	C1	H	H1	L	L1	L2	W	W1	W2	W3
lb/in											
50 to 250	0.34	-	3.13	0.50	4.00	3.25	2.38	3.88	3.00	2.25	-
500	0.44	0.56	3.88	0.50	6.00	4.00	3.38	5.50	4.00	3.00	4.13
1,000	0.44	-	4.00	0.50	6.00	4.00	3.00	5.13	4.00	3.00	4.13
2,000 to 2,500	0.44	0.56	4.00	0.50	6.00	4.00	4.62	6.25	4.00	3.00	5.00

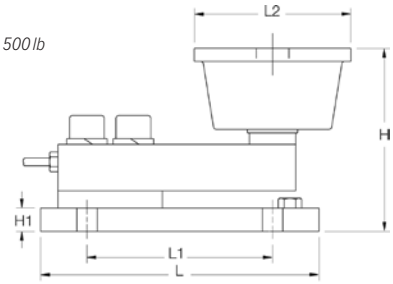


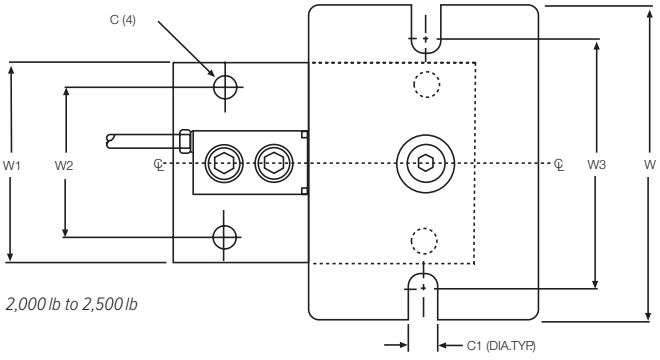
50 to 250 lb



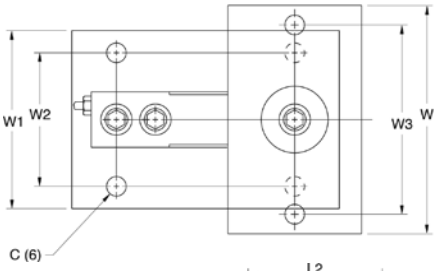


500 lb

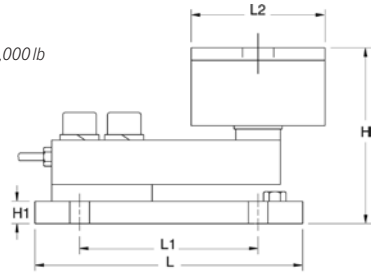


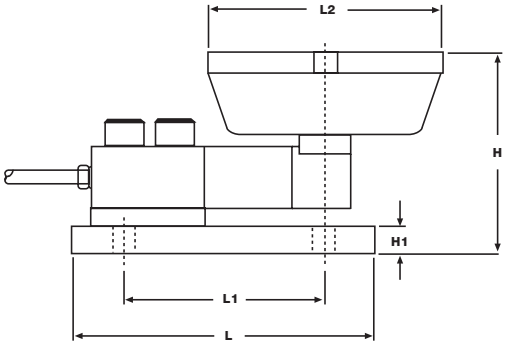


2,000 lb to 2,500 lb



1,000 lb





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RL50219SS-TA

Stainless Steel, Mini Tank Weigh Module Kit



RL50219SS-TA (50 lb-250 lb)

Picture is a representation of actual product.

Complete Kit Includes

- Three or four neoprene isolation/compression mounts with load cells
  - 50 to 250 lb model: RL50219SS
  - 500 lb model: multiple stainless steel, single-ended beam modules available
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Stainless steel modules
- Lower weighing ranges from 50 to 500 lb per module
- Environmentally protected load cells
- Neoprene isolation/compression mounts allow for minor misalignment, thermal expansion and shock absorption
- Overload stop for 500 lb modules provides durability

Applications

- Small tanks and hoppers
- Conveyor/In-motion weighing
- Small platform scales where minor shock loading may occur

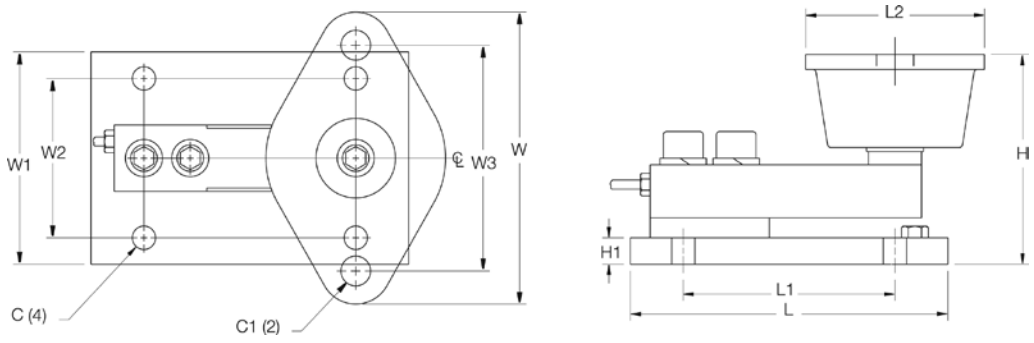
Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Includes Load Cell)		
50 lb	**196829**	Consult
75 lb	**196830**	Consult
100 lb	**196831**	Consult
150 lb	**196832**	Consult
250 lb	**196833**	Consult
500 lb	**17954**	Consult
3-Module Kit		
50 lb	**196840**	Consult
75 lb	**196841**	Consult
100 lb	**196842**	Consult
150 lb	**196843**	Consult
250 lb	**196844**	Consult
500 lb	**30394**	Consult
4-Module Kit		
50 lb	**196845**	Consult
75 lb	**197015**	Consult
100 lb	**196846**	Consult
150 lb	**196848**	Consult
250 lb	**196849**	Consult
500 lb	**30393**	Consult

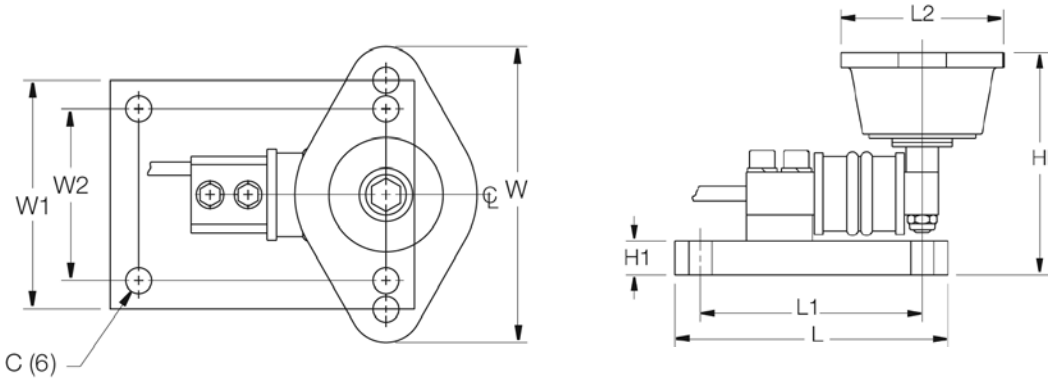
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Dimensions

Rated Capacity	C	C1	H	H1	L	L1	L2	W	W1	W2	W3
lb/in											
50 to 250	0.34	-	3.13	0.50	4.00	3.25	2.38	3.88	3.00	2.25	-
500	0.44	0.56	3.88	0.50	6.00	4.00	3.38	5.50	4.00	3.00	4.13



500 lb



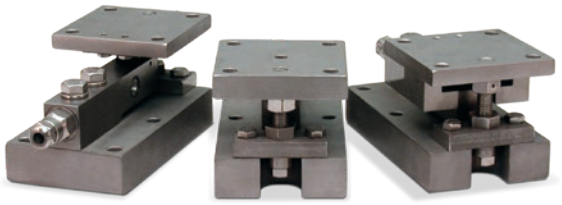
50 to 250 lb

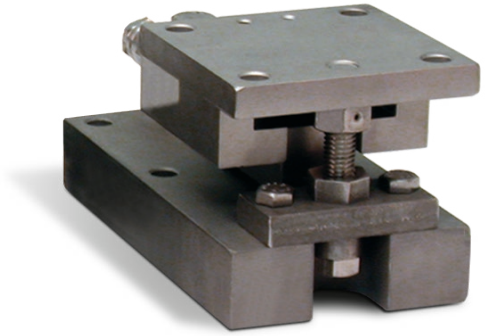
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Paramounts® EP

Zinc Plated, Environmentally Protected, Weigh Module Kit







Picture is a representation of actual product.

Load Cell Approvals

NTEP, OIML, FM APPROVED

Available

Order Information

Load Rating (Per Module)	Part #	Price
NTEP Certified 3-Module Kits		
5 kN	**33683**	Consult
10 kN	**33682**	Consult
20 kN	**33681**	Consult
50 kN	**33680**	Consult
NTEP Certified 4-Module Kits		
5 kN	**33678**	Consult
10 kN	**33677**	Consult
20 kN	**33676**	Consult
50 kN	**33675**	Consult
Non-NTEP Certified 3-Module Kit		
100 kN	**33679**	Consult
Non-NTEP Certified 4-Module Kit		
100 kN	**33674**	Consult

NOTE: 1 kN=224.8 lb

Complete Kit Includes

- One fixed-pin module, one side-stop module, and one or two free-sliding assemblies. Each module is complete with a NTEP Certified Flintec® SB5 stainless steel environmentally protected load cell.
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 5 to 20 kN
- NTEP Certified 1:5000 d, Class II load cells
- Unique design allows for thermal expansion/contraction
- Jacking screw allows empty vessel to be lifted clear of load cell for maintenance
- Unique blind load hole eliminates unwanted side and eccentric loads
- Vessel is free to slide laterally on PTFE coated surfaces
- mV/V/ohm load cell outputs allow for replacement without further calibration

Applications

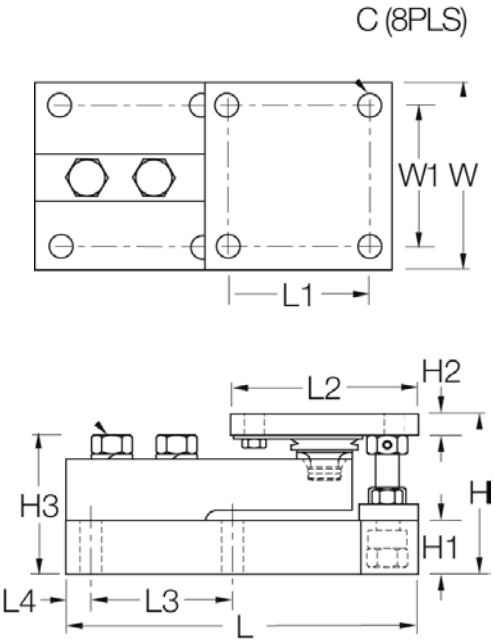
- Light- to medium-capacity tanks and hoppers
- Process measurement and control

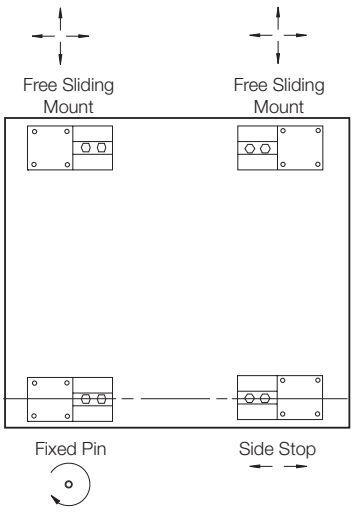
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Dimensions

Rated Capacity	C	H	H1	*H2	**H2	H3	L	L1	L2	L3	L4	W	W1
kN/in													
5 to 20	0.44	3.58	1.25	0.50	0.75	3.06	7.51	3.00	4.00	3.00	0.50	4.00	3.00
50	0.56	4.66	1.50	0.62	1.00	4.09	9.19	3.87	5.00	3.87	0.56	5.00	3.87
100	0.69	6.41	2.00	0.75	1.25	5.73	11.46	4.75	6.00	4.75	0.69	6.00	4.75

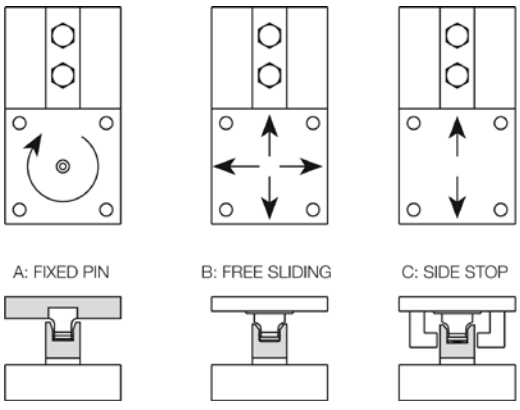
** Side-stop and free-sliding units ** Fixed-pin units*





VESSEL ARRANGEMENT

When arranged as illustrated, the vessel is fixed at one corner but is able to slide freely as indicated. This ensures there is minimal side loading on the cells and at the same time the vessel is self-checking. The unique, patented blind load hole technology used in these mounts introduces the load at the neutral axis of the load cell which helps minimize the effects of side loads.



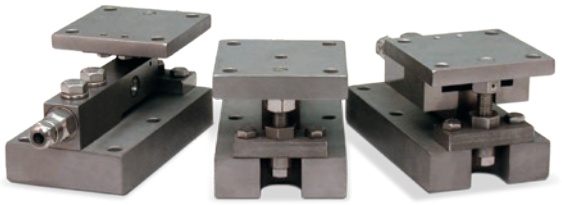
Fixed-pin Mount *Free-sliding Mount* *Side-stop Mount*

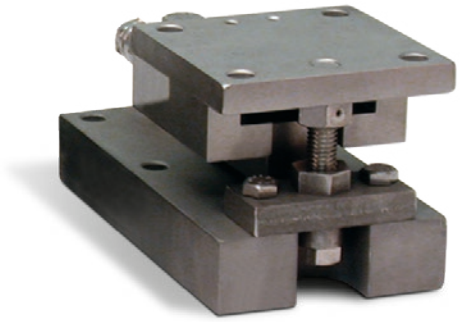
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Paramounts® HS

Zinc Plated, Hermetically Sealed, Weigh Module Kit







Picture is a representation of actual product.

Load Cell Approvals

NTEP, OIML, FM APPROVED

Available

Order Information

Load Rating (Per Module)	Part #	Price
NTEP Certified 3-Module Kit		
5 kN	**29871**	Consult
10 kN	**29872**	Consult
23 kN	**29873**	Consult
50 kN	**29874**	Consult
NTEP Certified 4-Module Kit		
5 kN	**29875**	Consult
10 kN	**29876**	Consult
23 kN	**29877**	Consult
50 kN	**29878**	Consult
Non-NTEP Certified 3-Module Kit		
5 kN	**17977**	Consult
10 kN	**17978**	Consult
23 kN	**17979**	Consult
50 kN	**17980**	Consult
100 kN	**17981**	Consult

Load Rating (Per Module)	Part #	Price
Non-NTEP Certified 4-Module Kit		
5 kN	**17984**	Consult
10 kN	**17985**	Consult
23 kN	**17986**	Consult
50 kN	**17987**	Consult
100 kN	**17988**	Consult
Conduit Adapter Kit (must be factory installed to maintain warranty)		
1/2-14 NPT	**17703**	Consult

Complete Kit Includes

- One fixed-pin module, one side-stop module, and one or two free-sliding assemblies. Each module is complete with a Flintec® SB4 NTEP Certified, stainless steel, hermetically sealed load cell.
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 5 to 100 kN
- Unique design allows for thermal expansion/contraction
- Jacking screw allows empty vessel to be lifted clear of load cell for maintenance
- Unique blind load hole eliminates unwanted side and eccentric loads
- Vessel is free to slide laterally on PTFE coated surfaces
- Load cell outputs are matched to ± 0.07% allowing replacement without further calibration

Applications

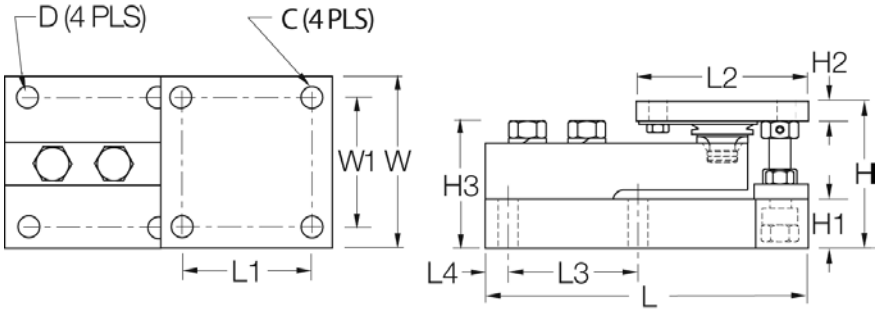
- Light- to medium-capacity tanks and hoppers
- Mixers and blenders
- Process measurement and control

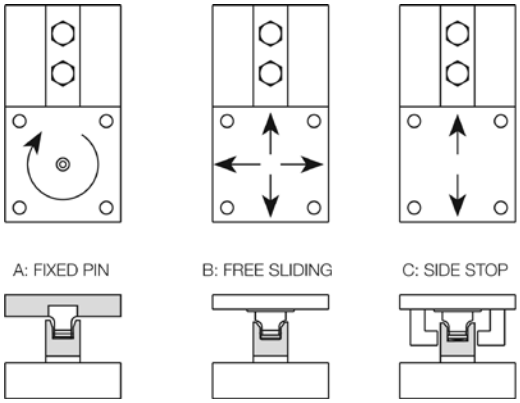
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Dimensions

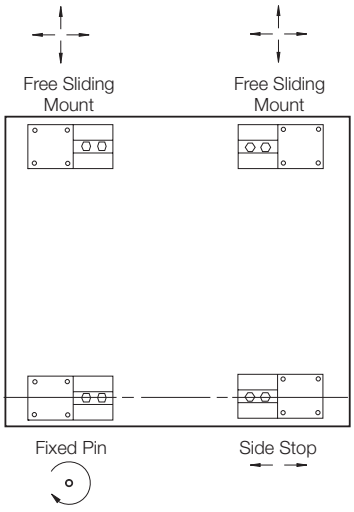
Rated Capacity	C	D	H	H1	*H2	**H2	H3	L	L1	L2	L3	L4	W	W1
kN/in														
5 to 23	0.44	0.44	3.58	1.25	0.50	0.75	3.06	7.51	3.00	4.00	3.00	0.50	4.00	3.00
50	0.56	0.56	4.66	1.50	0.62	1.00	4.09	9.19	3.87	5.00	3.87	0.56	5.00	3.87
100	0.69	0.69	6.41	2.00	0.75	1.25	5.73	11.46	4.75	6.00	4.75	0.69	6.00	4.75

** Side-stop and free-sliding units ** Fixed-pin units*





Fixed-pin Mount *Free-sliding Mount* *Side-stop Mount*



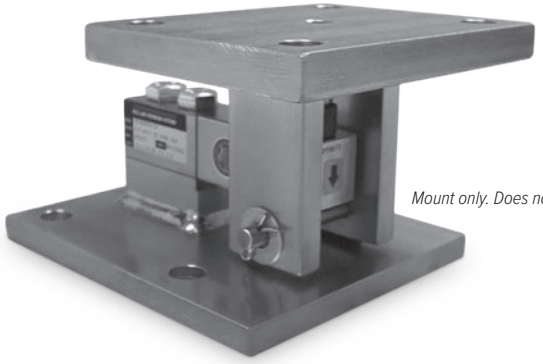
VESSEL ARRANGEMENT

When arranged as illustrated, the vessel is fixed at one corner but is able to slide freely as indicated. This ensures there is minimal side loading on the cells and at the same time the vessel is self-checking. The unique, patented blind load hole technology used in these mounts introduces the load at the neutral axis of the load cell which helps minimize the effects of side loads.

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RLBTM

Mild Steel/Stainless Steel, Weigh Module



Mount only. Does not include load cell

Picture is a representation of actual product.

Standard Features

- Capacities (per module): 250 to 5,000 lb SE
- Zinc plated, mild steel construction or stainless steel construction
- Self-checking, multi-directional movement
- Design incorporates a ball and cup for self-centering
- Will accommodate a standard shear beam 250 to 5,000 lb SE load cell that has a threaded load hole, such as the RL30000, RL39123, RL32018, RL32018S, RL32218S-HE

Applications

- Light- to medium-capacity tanks and hoppers
- Conveyors

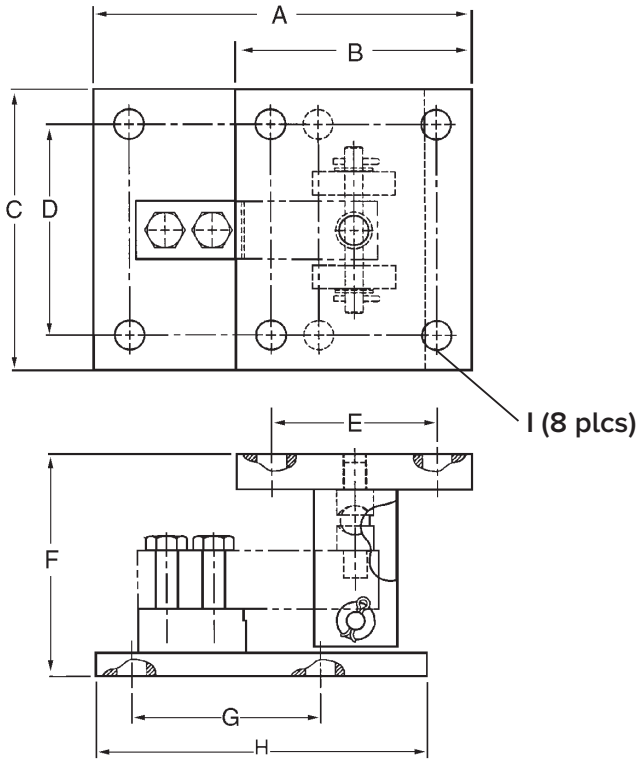
Order Information

Load Rating (Per Module)	Part #	Price
Single Module Mild Steel		
250 to 5,000 lb SE	**53059**	Consult
Single Module Stainless Steel		
250 to 5,000 lb SE	**53066**	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I
lb/in									
250 to 5,000 SE	8.00	5.00	6.00	4.50	3.50	4.75	4.00	7.00	0.63

SE=Small envelope

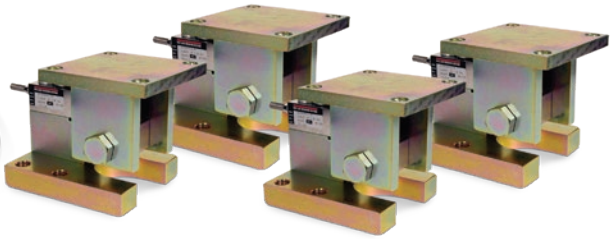


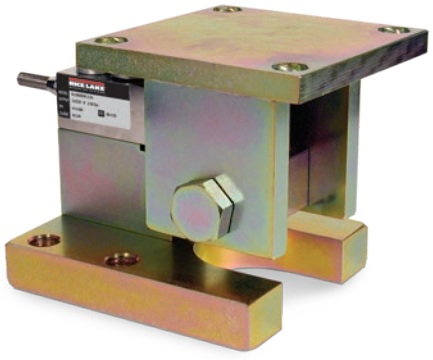
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RL1800 Series

Mild Steel/Stainless Steel, Weigh Module Kit







Picture is a representation of actual product.

Load Cell Approvals

NTEP

FM APPROVED

Except 250lb

Complete Kit Includes

- Three or four RL1800 mild steel or stainless steel compression mounts with NTEP Certified RL32018 single-ended beam load cells, RL32018S used in stainless steel
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 250 to 10,000 lb
- NTEP Certified load cells in 500 to 10,000 lb capacities, except 3,000 lb
- Zinc plated mild steel/stainless steel construction
- Center-pivoted, tension loading design
- Self-checking, multi-directional movement
- Load is suspended on high-strength bolt instead of wire rope
- Design incorporates spherical washers for self centering

Applications

- Conveyors
- Medium-capacity tanks and hoppers
- Mixers and blenders
- Process measurement and control

Mild Steel Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
250 to 5,000 lb SE	**17817**	Consult
5,000 LE to 10,000 lb	**17819**	Consult
3-Module Kit		
250 lb*	**18075**	Consult
500 lb	**18076**	Consult
1,000 lb	**18077**	Consult
2,000 lb	**18078**	Consult
2,500 lb	**18079**	Consult
3,000 lb	**18080**	Consult
4,000 lb	**18081**	Consult
5,000 lb SE	**18082**	Consult
5,000 lb LE	**18083**	Consult
10,000 lb	**18084**	Consult
4-Module Kit		
250 lb*	**18085**	Consult
500 lb	**18086**	Consult
1,000 lb	**18087**	Consult
2,000 lb	**18088**	Consult
2,500 lb	**18089**	Consult
3,000 lb	**18090**	Consult
4,000 lb	**18091**	Consult
5,000 lb SE	**18092**	Consult
5,000 lb LE	**18093**	Consult
10,000 lb	**18094**	Consult

** Non-NTEP*

Stainless Steel Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
250 to 4,000 lb	**17818**	Consult
5,000 to 10,000 lb	**17820**	Consult
3-Module Kit		
1,000 lb	**18095**	Consult
2,000 lb	**18096**	Consult
2,500 lb	**18097**	Consult
4,000 lb	**18099**	Consult
5,000 lb LE	**18100**	Consult
10,000 lb	**18101**	Consult
4-Module Kit		
1,000 lb	**18102**	Consult
2,000 lb	**18103**	Consult
2,500 lb	**18104**	Consult
4,000 lb	**18106**	Consult
5,000 lb LE	**18107**	Consult
10,000 lb	**18108**	Consult
Dummy Cell		
Dummy load cell 1 k to 5 k SE	**22980**	Consult

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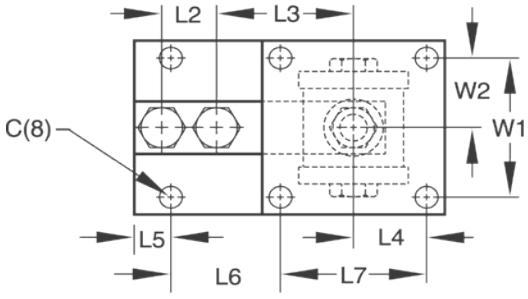
RL1800 Series

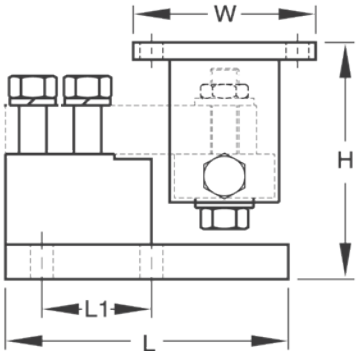
Mild Steel/Stainless Steel, Weigh Module Kit

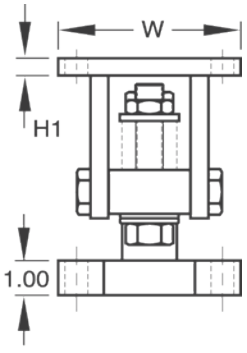
Dimensions

Rated Capacity	C	H Min/Max	H1	L	L1	L2	L3	L4	L5	L6	L7	W	W1	W2
Mild Steel Construction														
lb/in														
250 to 5,000 SE	0.62	5.25/5.56	0.50	6.00	2.00	1.00	3.00	2.00	0.68	1.94	4.00	5.00	4.00	2.00
5,000 LE to 10,000	0.62	6.12/6.62	0.50	7.75	3.00	1.50	3.75	2.00	1.03	2.97	4.00	5.00	4.00	2.00
Stainless Steel Construction														
lb/in														
1,000 to 4,000	0.62	5.25/5.56	0.50	6.00	2.00	1.00	3.00	2.00	0.68	1.94	4.00	5.00	4.00	2.00
5,000 to 10,000	0.62	6.12/6.62	0.50	7.75	3.00	1.50	3.75	2.00	1.03	2.97	4.00	5.00	4.00	2.00

SE=Small envelope; LE=Large envelope







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RL1800 Series with MLC Coated Load Cell

Stainless Steel, Weigh Module Kit





Picture is a representation of actual product.

Load Cell Approvals

Complete Kit Includes

- Three or four RL1800 stainless steel compression mounts with MLC coated RL32018 NTEP Certified single-ended beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 1,000 to 10,000 lb
- NTEP Certified load cells in 1,000 to 10,000 lb capacities
- Stainless steel mounts
- Center-pivoted, tension loading design
- Self-checking, multi-directional movement
- Load is suspended on high-strength bolt instead of wire rope
- Design incorporates spherical washers for self centering
- Coated load cells for corrosion protection

Applications

- Conveyors
- Medium-capacity tanks and hoppers

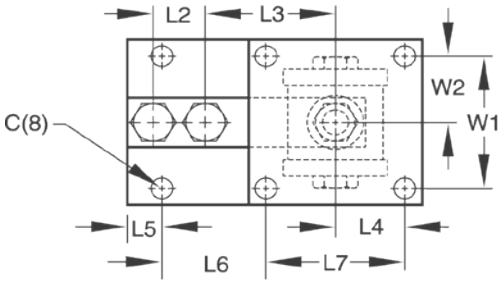
Stainless Steel Order Information

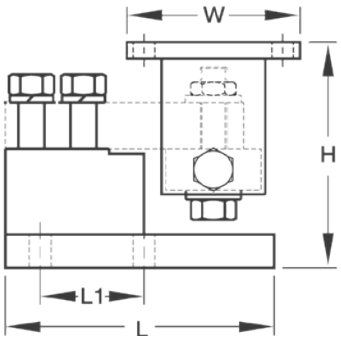
Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
1,000 to 5,000 SE lb	**17818**	Consult
5,000 LE to 10,000 lb	**17820**	Consult
3-Module Kit		
1,000 lb	**219894**	Consult
1,500 lb	**219896**	Consult
2,000 lb	**219898**	Consult
2,500 lb	**219900**	Consult
3,000 lb	**219902**	Consult
4,000 lb	**219904**	Consult
5,000 SE lb	**219906**	Consult
5,000 LE lb	**219908**	Consult
10,000 lb	**219910**	Consult
4-Module Kit		
1,000 lb	**219895**	Consult
1,500 lb	**219897**	Consult
2,000 lb	**219899**	Consult
2,500 lb	**219901**	Consult
3,000 lb	**219903**	Consult
4,000 lb	**219905**	Consult
5,000 SE lb	**219907**	Consult
5,000 LE lb	**219909**	Consult
10,000 lb	**219911**	Consult

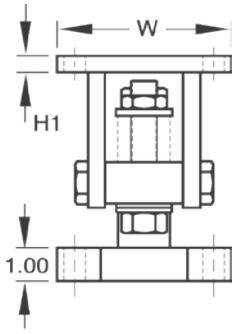
Dimensions

Rated Capacity	C	H Min/ Max	H1	L	L1	L2	L3	L4	L5	L6	L7	W	W1	W2
lb/in														
1,000 to 5,000 SE	0.62	5.25/5.56	0.50	6.00	2.00	1.00	3.00	2.00	0.68	1.94	4.00	5.00	4.00	2.00
5,000 LE to 10,000	0.62	6.12/6.62	0.50	7.75	3.00	1.50	3.75	2.00	1.03	2.97	4.00	5.00	4.00	2.00

SE=Small envelope; LE=Large envelope







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RL1900 Series

Stainless Steel, Weigh Module Kit



Picture is a representation of actual product.

Load Cell Approvals

Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
1,000 to 5,000 lb	**17841**	Consult
10,000 lb	**17843**	Consult
3-Module Kit		
1,000 lb	**18109**	Consult
2,000 lb	**18110**	Consult
5,000 lb	**18111**	Consult
10,000 lb	**18112**	Consult
4-Module Kit		
1,000 lb	**18113**	Consult
2,000 lb	**18114**	Consult
5,000 lb	**18115**	Consult
10,000 lb	**18116**	Consult

Dimensions

Rated Capacity	C	H Min/ Max	H1	L	L1	L2	L3	L4	L5	L6	L7	W	W1	W2
lb/in														
1,000 to 5,000	0.62	5.38/5.62	0.50	8.75	4.00	2.50	3.88	2.00	1.12	4.00	4.00	5.00	4.00	2.00
10,000	0.81	6.88/7.50	1.00	9.75	5.00	2.63	4.88	2.25	1.00	5.00	4.50	6.00	4.50	2.25

Complete Kit Includes

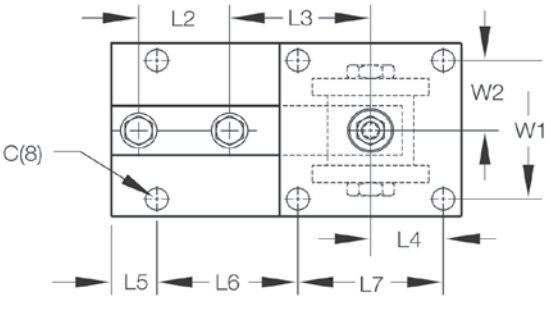
- Three or four RL1900 stainless steel compression mounts with RLSSB NTEP Certified welded stainless steel single-ended beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

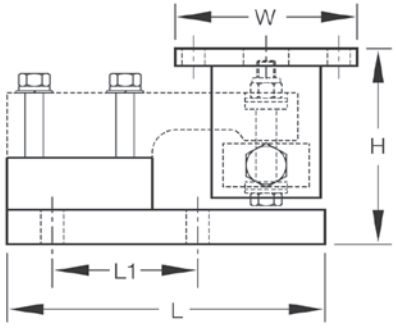
Standard Features

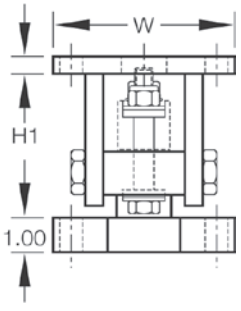
- Capacities (per module): 1,000 to 10,000 lb
- NTEP Certified load cells, 1:5000 d, Class III single cell
- Stainless steel construction
- Mild steel top plate
- Low-profile design
- Center-pivoted, tension loading design
- Welded-seal stainless steel load cells, IP67
- Self-checking, multi-directional movement
- Easy load cell replacement
- Load is suspended on a high-strength bolt instead of wire rope
- Design incorporates spherical washers
- Compatible with VPG® Revere SSB load cells
- Stainless steel top plates optional

Applications

- Medium-capacity tanks, bins and hoppers
- Washdown or corrosive applications







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RLTM

Stainless Steel, Weigh Module Kit





Picture is a representation of actual product.

Load Cell Approvals

Complete Kit Includes

- Three or four Rice Lake RLTM stainless steel mounting assemblies with RL32018S-T NTEP Certified, welded-seal stainless steel load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module) 500 to 10,000 lb
- NTEP Certified load cells, 1:5,000 d, Class III multiple cell
- Stainless steel construction
- Overload and uplift protection
- Rocker pin loading
- Integral lateral stops

Applications

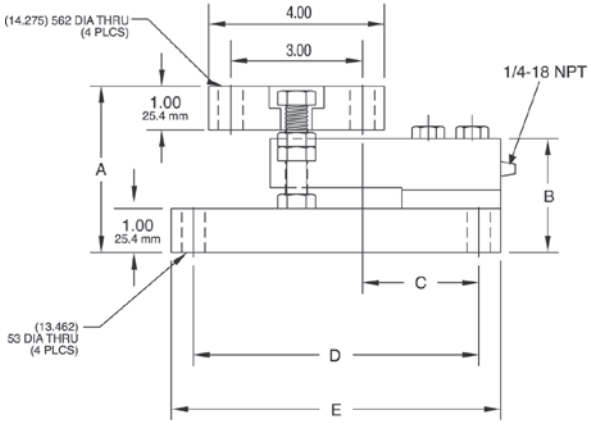
- Lower capacity tank and vessel weighing
- Process control and batching

Order Information

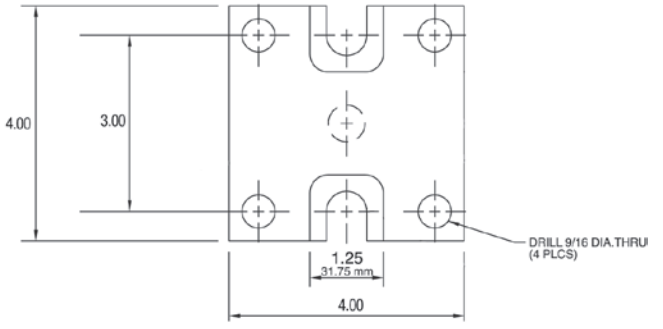
Load Rating (Per Module)	Part #	Price
Single Module (Includes Load Cell)		
500 lb	**159288**	Consult
1,250 lb	**159289**	Consult
2,500 lb	**159290**	Consult
5,000 lb	**159291**	Consult
10,000 lb	**159292**	Consult
3-Module Kit		
500 lb	**162942**	Consult
1,250 lb	**162944**	Consult
2,500 lb	**162945**	Consult
5,000 lb	**162946**	Consult
10,000 lb	**162947**	Consult
4-Module Kit		
500 lb	**162948**	Consult
1250 lb	**162949**	Consult
2500 lb	**162950**	Consult
5000 lb	**162951**	Consult
10,000 lb	**162953**	Consult

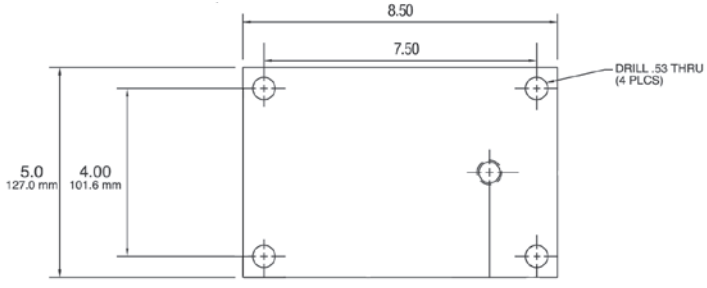
Dimensions

Rated Capacity	A	B	C	D	E
lb/in					
500 to 2,500	3.77	2.59	2.62	6.50	7.50
5,000	3.99	2.83	2.62	6.50	7.50
10,000	4.27	3.08	3.88	7.50	8.50



TOP PLATE





BASE PLATE

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RL9000TWM Series

Stainless Steel, Weigh Module Kit



Picture is a representation of actual product.

Load Cell Approvals

FM APPROVED

Complete Kit Includes

- Three or four stainless steel mounting assemblies with RL9000TWM compression disk load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 1,000 to 450,000 lb
- Stainless steel construction
- Mild steel base plates (stainless steel available on some capacities)
- Low-profile design
- Self-centering
- Self-checking assembly
- Offers 100% sideload, 100% uplift and 150% static safe load and 300% ultimate static overload protection
- Weighs accurately with up to 3° non-parallel load

Applications

- Tank, hopper or vessel weighing

Specifications

Full Scale Output:
3.0 (± 0.1%) mV/V

Bridge Resistance:
350 ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-17 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC

Nonlinearity:
1,000 to 100,000 lb: 0.05% FS
150,000 to 450,000 lb: 0.1% FS

Insulation Resistance:
5,000 megohm

Non-repeatability:
1,000 to 100,000 lb: 0.02% full scale
150,000 to 450,000 lb: 0.03% full scale

Cable Length:
25 ft

Deflection at Capacity:
1.000 to 15,000 lb: 0.002 in
20,000 to 50,000 lb: 0.004 in
60,000 to 200,000 lb: 0.007 in
250,000 to 450,000 lb: 0.009 in

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

Warranty:
Two-year limited

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Order Information

Load Rating (Per Module)	Part #	Price
Single Module		
1,000 lb	**84353**	Consult
2,500 lb	**84354**	Consult
5,000 lb	**84355**	Consult
10,000 lb	**84356**	Consult
15,000 lb	**84357**	Consult
20,000 lb	**84358**	Consult
25,000 lb	**84359**	Consult
35,000 lb	**84360**	Consult
50,000 lb	**84361**	Consult
60,000 lb	**84362**	Consult
75,000 lb	**84363**	Consult
100,000 lb	**84364**	Consult
150,000 lb	**84365**	Consult
200,000 lb	**84366**	Consult
250,000 lb	**84368**	Consult
300,000 lb	**84369**	Consult
400,000 lb	**84370**	Consult
450,000 lb	**84371**	Consult
3-Module Kit		
1,000 lb	**98974**	Consult
2,500 lb	**98980**	Consult
5,000 lb	**98981**	Consult
10,000 lb	**98982**	Consult
15,000 lb	**98983**	Consult
20,000 lb	**98984**	Consult
25,000 lb	**98985**	Consult
35,000 lb	**98986**	Consult
50,000 lb	**98987**	Consult
60,000 lb	**98988**	Consult
75,000 lb	**98989**	Consult
100,000 lb	**98990**	Consult
150,000 lb	**98991**	Consult
200,000 lb	**98992**	Consult
250,000 lb	**98993**	Consult
300,000 lb	**98994**	Consult
400,000 lb	**98995**	Consult
450,000 lb	**98996**	Consult
4-Module Kit		
1,000 lb	**98997**	Consult
2,500 lb	**98998**	Consult
5,000 lb	**98999**	Consult
10,000 lb	**99000**	Consult
15,000 lb	**99001**	Consult
20,000 lb	**99002**	Consult
25,000 lb	**99003**	Consult
35,000 lb	**99004**	Consult
50,000 lb	**99005**	Consult
60,000 lb	**99006**	Consult
75,000 lb	**99007**	Consult
100,000 lb	**99008**	Consult
150,000 lb	**99009**	Consult
200,000 lb	**99010**	Consult
250,000 lb	**99011**	Consult
300,000 lb	**99012**	Consult
400,000 lb	**99013**	Consult
450,000 lb	**99014**	Consult

Load Rating (Per Module)	Part #	Price
Top Plates (Stainless Steel) with bolts		
1,000 to 15,000 lb	**91207**	Consult
20,000 to 50,000 lb	**91210**	Consult
60,000 to 100,000 lb	**91211**	Consult
150,000 to 200,000 lb	**91213**	Consult
250,000 to 450,000 lb	**91215**	Consult
Top Plates (Mild Steel) with bolts		
1,000 to 15,000 lb	**124758**	Consult
20,000 to 50,000 lb	**125141**	Consult
60,000 to 100,000 lb	**124759**	Consult
150,000 to 200,000 lb	**124760**	Consult
250,000 to 450,000 lb	**124761**	Consult
Dummy Weigh Modules (non-functioning)		
1,000 to 10,000 lb	**158749**	Consult
15,000 lb	**158750**	Consult
20,000 to 50,000 lb	**158752**	Consult
60,000 to 100,000 lb	**158753**	Consult
150,000 to 200,000 lb	**158754**	Consult
250,000 to 450,000 lb	**158755**	Consult

150,000 to 450,000lb have mild steel painted base plates

Order Information

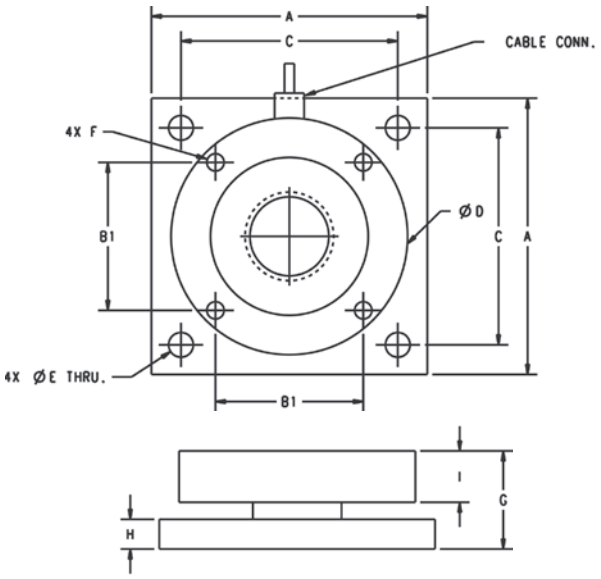
Capacity	Thickness	Material	Part #	Price
Shims				
1,000 to 15,000 lb	0.0625	SST	**167001**	Consult
1,000 to 15,000 lb	0.125	SST	**167002**	Consult
1,000 to 15,000 lb	0.250	SST	**167003**	Consult
1,000 to 15,000 lb	0.0625	MS	**167004**	Consult
1,000 to 15,000 lb	0.125	MS	**167005**	Consult
1,000 to 15,000 lb	0.250	MS	**167006**	Consult
20,000 to 50,000 lb	0.0625	SST	**167008**	Consult
20,000 to 50,000 lb	0.125	SST	**167009**	Consult
20,000 to 50,000 lb	0.250	SST	**167010**	Consult
20,000 to 50,000 lb	0.0625	MS	**167011**	Consult
20,000 to 50,000 lb	0.125	MS	**167012**	Consult
20,000 to 50,000 lb	0.250	MS	**167013**	Consult
60,000 to 100,000 lb	0.0625	SST	**167014**	Consult
60,000 to 100,000 lb	0.125	SST	**167015**	Consult
60,000 to 100,000 lb	0.250	SST	**167016**	Consult
150,000 to 200,000 lb	0.0625	SST	**167020**	Consult
150,000 to 200,000 lb	0.125	SST	**167021**	Consult
150,000 to 200,000 lb	0.250	SST	**167022**	Consult
250,000 to 450,000 lb	0.0625	SST	**167026**	Consult
250,000 to 450,000 lb	0.125	SST	**167027**	Consult
250,000 to 450,000 lb	0.250	SST	**167028**	Consult

Shims match dimensions of base plate and optional top plate

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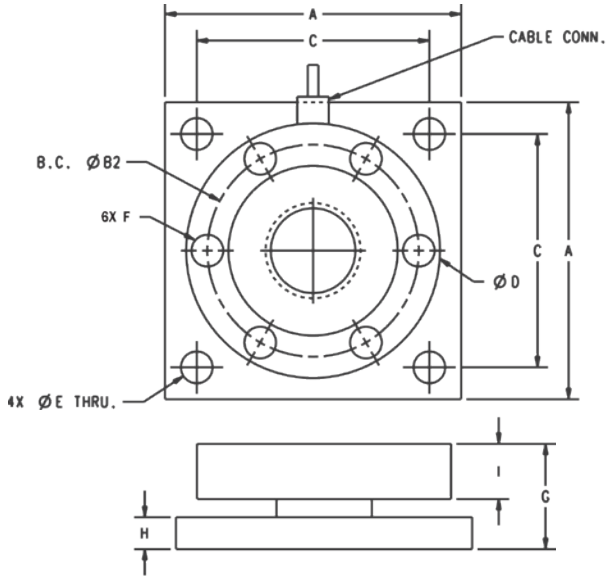
RL9000TWM Series

Stainless Steel, Weigh Module Kit



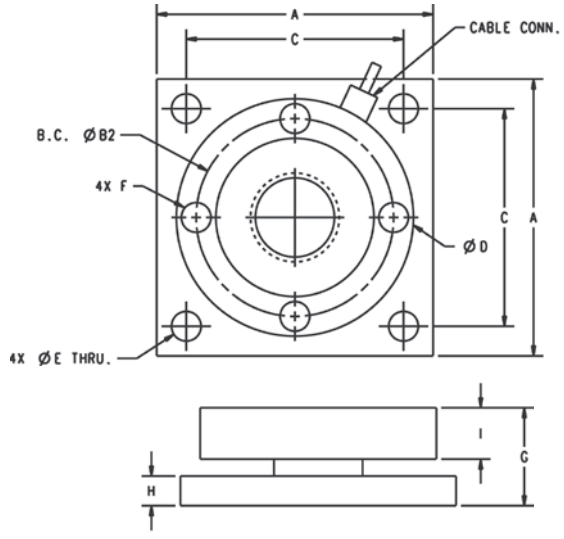
Dimensions

Rated Capacity	A	B1	C	D	E	F	G	H	I	Conduit Adapter
lb/in										
1,000 to 10,000	4.00	2.00	3.25	3.50	0.40	3/8-16 UNC	1.35	0.375	0.75	-
15,000	4.00	2.00	3.25	3.50	0.40	3/8-16 UNC	1.60	0.625	0.75	-
20,000 to 50,000	7.00	3.75	5.50	6.00	0.63	1/2-13 UNC	2.48	0.75	1.30	1/2-14 NPT
60,000 to 100,000	8.00	4.25	6.50	7.00	0.81	3/4-16 UNC	2.50	1.00	1.30	1/2-14 NPT



Dimensions

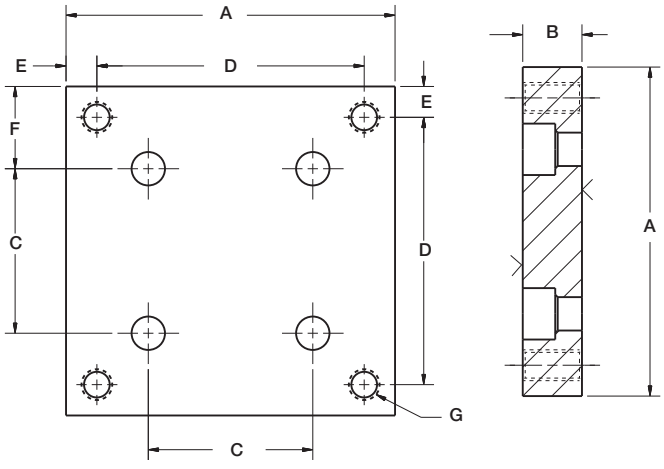
Rated Capacity	A	B2	C	D	E	F	G	H	I	Conduit Adapter
lb/in										
250,000 to 450,000	11.00	7.75	9.00	9.00	1.30	7/8-14 UNF	6.42	3.00	2.25	1/2-14 NPT



Dimensions

Rated Capacity	A	B2	C	D	E	F	G	H	I	Conduit Adapter
lb/in										
150,000 to 200,000	10.0	7.825	8.00	9.00	1.10	1-14 UNF	4.75	2.00	1.70	1/2-14 NPT

Optional Top Plates



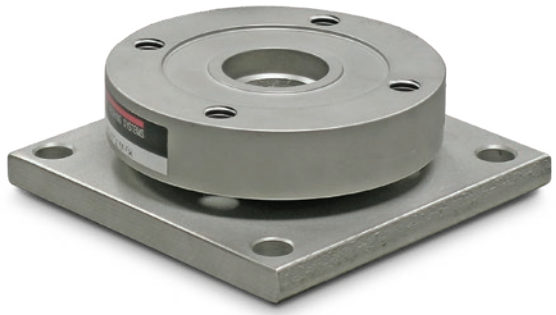
Dimensions

Rated Capacity	A	B	C	D	E	F	G
lb/in							
1,000 to 15,000	4.00	0.72	2.00	3.25	0.38	1.00	3/8-16 UNC
20,000 to 50,000	7.00	0.97	3.75	5.50	0.75	1.62	5/8-11 UNC
60,000 to 100,000	8.00	1.46	4.25	6.50	0.75	1.88	3/4-16 UNF
150,000 to 200,000	10.00	1.94	5.53	8.00	1.00	2.25	1-14 UNS
250,000 to 450,000	11.00	2.94	7.75 B.C.	9.00	1.00	1.00	1-1/4-12 UNF

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RL9000TWM-HT

Stainless Steel, High Temperature, Weigh Module



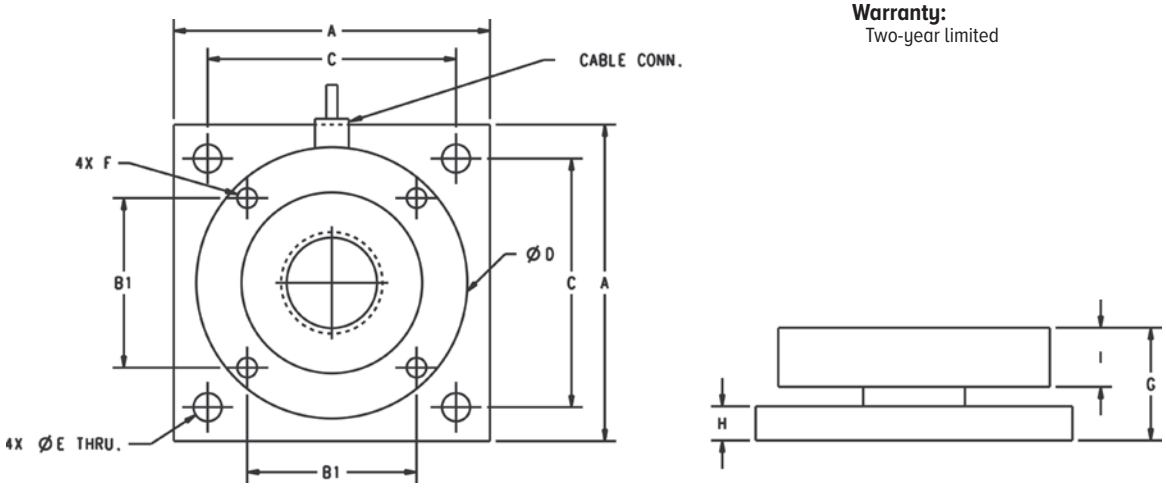
Picture is a representation of actual product.

Order Information

Load Rating (per module)	Part #	Price
Single Module		
1,000 lb	**117050**	Consult
2,500 lb	**117051**	Consult
5,000 lb	**117052**	Consult
10,000 lb	**117140**	Consult
15,000 lb	**117053**	Consult
20,000 lb	**117054**	Consult
25,000 lb	**117055**	Consult
35,000 lb	**117056**	Consult
50,000 lb	**117057**	Consult
Top Plates (Stainless Steel) with bolts		
1,000 to 15,000 lb	**91207**	Consult
20,000 to 50,000 lb	**91210**	Consult
Top Plates (Mild Steel) with bolts		
1,000 to 15,000 lb	**124758**	Consult
20,000 to 50,000 lb	**125141**	Consult

Dimensions

Rated Capacity	A	B1	C	D	E	F	G	H	I	Conduit Adapter
lb/in										
1,000 to 10,000	4.00	2.00	3.25	3.50	0.40	3/8-16 UNC	1.35	0.375	0.75	-
15,000	4.00	2.00	3.25	3.50	0.40	3/8-16 UNC	1.60	0.625	0.75	-
20,000 to 50,000	7.00	3.75	5.50	6.00	0.63	1/2-13 UNC	2.48	0.750	1.30	1/2-14NPT



Standard Features

- Capacities: 1,000 to 50,000 lb
- Stainless steel construction
- Low-profile design
- Self-centering
- Self-checking assembly
- Offers 100% side load, 100% uplift, 150% safe load and 300% ultimate overload protection
- Weighs accurately with up to 3° non-parallel load

Applications

- Tank, hopper, or vessel weighing
- High temperature applications

Optional Features

- Stainless steel top plates
- Higher capacities available upon request

Specifications

Full Scale Output:
3.0 (± 0.1%) mV/V

Bridge Resistance:
700 ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 400 °F (-17 °C to 204 °C)

Seal Type:
Welded seal, IP67

Safe Overload:
150% full scale

Nonlinearity:
0.01% full scale

Insulation Resistance:
5,000 megohm

Non-repeatability:
0.02% full scale

Deflection at Capacity:
1,000 to 15,000 lb: 0.002 in
20,000 to 50,000 lb: 0.004 in

Cable Length:
25 ft PTFE jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

Warranty:
Two-year limited

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RL2200 Series

Mild Steel, Weigh Module Kit



Picture is a representation of actual product.

Order Information

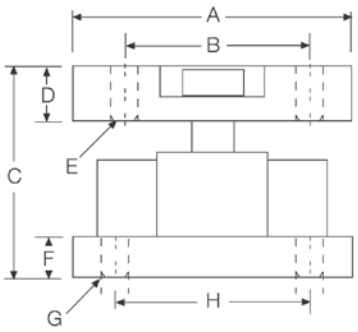
Load Rating (Per Module)	Part #	Price
Single Module		
2,500 lb	**76656**	Consult
5,000 lb	**45849**	Consult
10,000 lb	**45848**	Consult
25,000 lb	**45847**	Consult
50,000 lb	**45846**	Consult
3-Module Kit		
2,500 lb	**76897**	Consult
5,000 lb	**42811**	Consult
10,000 lb	**42812**	Consult
25,000 lb	**42813**	Consult
50,000 lb	**42814**	Consult
4-Module Kit		
2,500 lb	**76898**	Consult
5,000 lb	**42815**	Consult
10,000 lb	**42816**	Consult
25,000 lb	**42817**	Consult
50,000 lb	**42818**	Consult

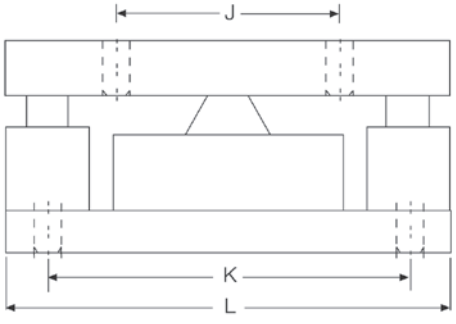
Replacement Load Cell Order Information

Load Rating (Per Module)	Part #	Price
2,500 lb	**76654**	Consult
5,000 lb	**45708**	Consult
10,000 lb	**45709**	Consult
25,000 lb	**45710**	Consult
50,000 lb	**45711**	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	J	K	L
lb/in											
2,500 to 10,000	5.00	3.50	4.00	1.00	0.52	1.00	0.52	3.50	4.00	6.50	8.00
25,000 to 50,000	6.00	4.50	5.00	1.25	0.78	1.00	0.78	4.50	5.00	7.75	10.00





Complete Kit Includes

- Three or four RL2200 high-alloy, zinc-plated steel mounting assemblies with RL2200 compression disk load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 2,500 to 50,000 lb
- Low-profile design
- Self-centering in all directions, able to withstand excessive side loads
- Self-checking assembly

Applications

- Tank, hopper or vessel weighing
- Belt or roller conveyors
- Scale platforms and screw feeders

Specifications

Full Scale Output:
4.0 mV/V
2.0 mV/V (2,500 lb)

Bridge Resistance:
350 ohm nominal

Material/Finish:
High-alloy steel, painted

Temperature:
Compensated:
15 °F to 115 °F (-9 °C to 46 °C)

Seal Type:
Environmentally sealed

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (20 V maximum)

Nonlinearity:
0.05% full scale

Hysteresis:
0.03% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
30 ft

Cable Color Code:
Red +Excitation
Black –Excitation
White +Signal
Green –Signal

Warranty:
Two-year limited

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RL2200SS Series

Stainless Steel, Weigh Module Kit



Picture is a representation of actual product.

Order Information

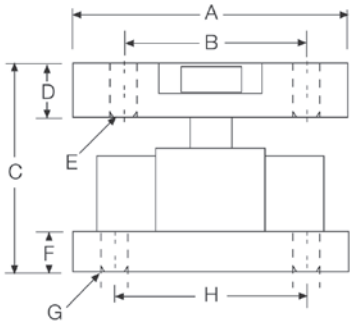
Load Rating (Per Module)	Part #	Price
Single Module		
2,500 lb	**76657**	Consult
5,000 lb	**45845**	Consult
10,000 lb	**45844**	Consult
25,000 lb	**45843**	Consult
50,000 lb	**45842**	Consult
3-Module Kit		
2,500 lb	**76899**	Consult
5,000 lb	**46478**	Consult
10,000 lb	**46479**	Consult
25,000 lb	**46480**	Consult
50,000 lb	**46481**	Consult
4-Module Kit		
2,500 lb	**76900**	Consult
5,000 lb	**46482**	Consult
10,000 lb	**46483**	Consult
25,000 lb	**46484**	Consult
50,000 lb	**46485**	Consult

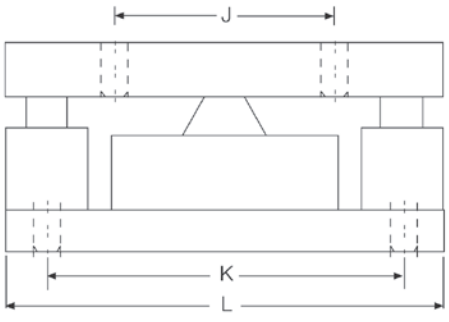
Replacement Load Cell Order Information

Load Rating (Per Module)	Part #	Price
2,500 lb	**76655**	Consult
5,000 lb	**45712**	Consult
10,000 lb	**45713**	Consult
25,000 lb	**45714**	Consult
50,000 lb	**45715**	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	J	K	L
lb/in											
2,500 to 10,000	5.00	3.50	4.00	1.00	0.52	1.00	0.52	3.50	4.00	6.50	8.00
25,000 to 50,000	6.00	4.50	5.00	1.25	0.78	1.00	0.78	4.50	5.00	7.75	10.00





Complete Kit Includes

- Three or four RL2200 stainless steel mounting assemblies with RL2200SS stainless steel, hermetically sealed, compression disk load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Applications

- Medium- to heavy-capacity tank, hopper or vessel weighing
- Belt or roller conveyors
- Scale platforms and screw feeders

Specifications

Full Scale Output:
4.0 mV/V
2.0 mV/V (2,500 lb)

Bridge Resistance:
350 ohm nominal

Material/Finish:
Stainless steel

Temperature:
Compensated:
15 °F to 115 °F (9 °C to 46 °C)

Seal Type:
Hermetically sealed, IP66/68

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (20 V maximum)

Nonlinearity:
0.05% full scale

Hysteresis:
0.03% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
30 ft

Cable Color Code:
Red +Excitation
Black –Excitation
White +Signal
Green –Signal

Warranty:
Two-year limited

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RLC

Stainless Steel, Weigh Module Kit, VPG® Revere



Picture is a representation of actual product.

Load Cell Approvals

Complete Kit Includes

- Three or four RLC stainless steel compression mounts with RLC NTEP Certified stainless steel hermetically sealed compression disk load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 0.5 to 5 t
- mV/V/Ohm calibrated load cells eliminates the need for trimming
- Stainless steel construction
- Rocker pin design allows movement in all directions
- Easy load cell replacement
- Integral jacking/shipping bolts

Applications

- Medium-capacity tanks, bins and hoppers
- Washdown or corrosive applications
- Process control and batch weighing

Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Includes Load Cell)		
0.5 t	**36401**	Consult
1 t	**36402**	Consult
2 t	**36403**	Consult
5 t	**36405**	Consult
3-Module Kit		
0.5 t	**36406**	Consult
1 t	**36407**	Consult
2 t	**36408**	Consult
5 t	**36410**	Consult
4-Module Kit		
0.5 t	**36411**	Consult
1 t	**36412**	Consult
2 t	**36413**	Consult
5 t	**36415**	Consult

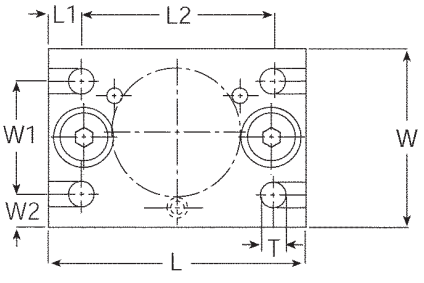
Replacement Rocker Pin Set*

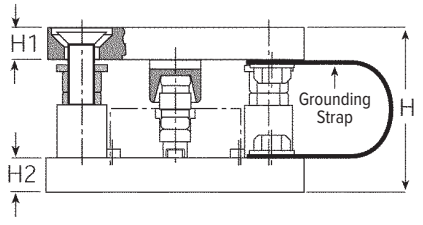
Load Rating (Per Module)	Part #	Price
0.5 t to 1 t	**170875**	Consult
2 t to 5 t	**170876**	Consult

**Kit includes upper cup, rocker pin and grease*

Dimensions

Rated Capacity	H	H1	H2	L	L1	L2	T	W	W1	W2
ton/mm										
0.5 to 1	80.0	20.0	15.0	150.0	15.0	120.0	14.0 (top plate)	100.0	70.0	15.0
2 to 5	100.0	20.0	20.0	160.0	20.0	120.0	13.8 (bottom plate)	110.0	70.0	20.0

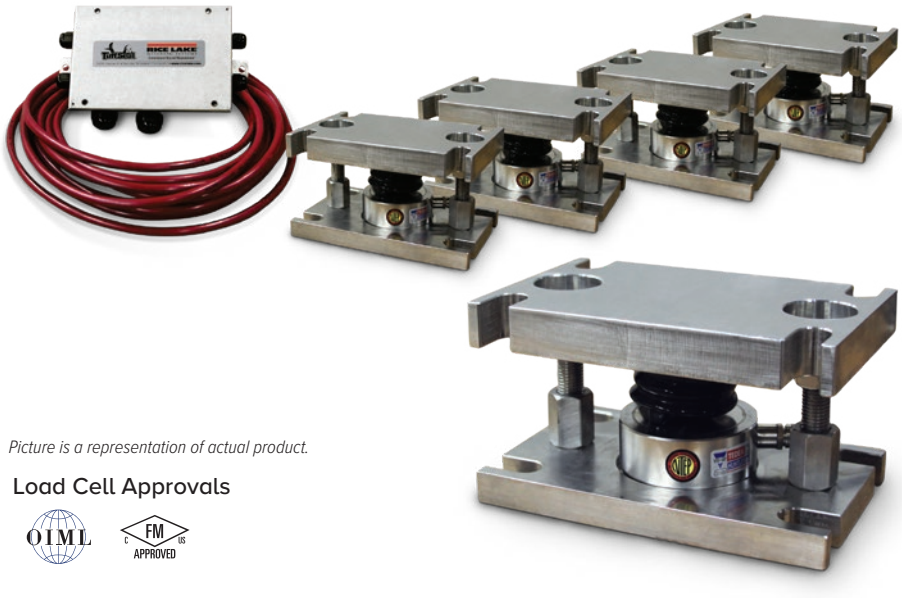




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220 Universal Mount

Stainless Steel, Weigh Module Kit, VPG® Tedea-Huntleigh®



Picture is a representation of actual product.

Load Cell Approvals

OIML FM APPROVED

Complete Kit Includes

- Three or four 220 stainless steel compression mounts with 220 stainless steel hermetically sealed compression disk load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 5,000 to 30,000 kg
- mV/V/ohm calibrated load cells eliminates the need for trimming
- Stainless steel construction
- Easy load cell replacement
- Integral jacking/shipping bolts

Applications

- Medium- to high-capacity tanks, bins and hoppers
- Washdown or corrosive applications
- Process control and batch weighing

Order Information

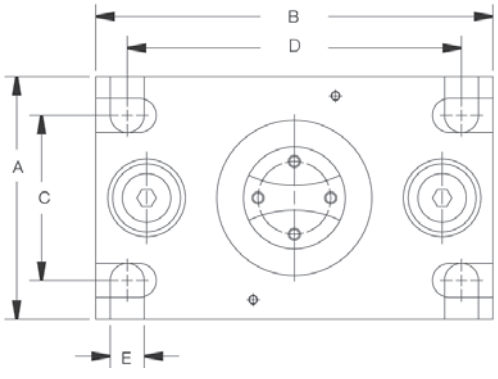
Load Rating (Per Module)	Part #	Price
3-Module Kit (Includes Load Cell)		
5,000 kg	**66208**	Consult
10,000 kg	**66209**	Consult
20,000 kg	**66210**	Consult
30,000 kg	**66211**	Consult
4-Module Kit (Includes Load Cell)		
5,000 kg	**66212**	Consult
10,000 kg	**66213**	Consult
20,000 kg	**66214**	Consult
30,000 kg	**66215**	Consult

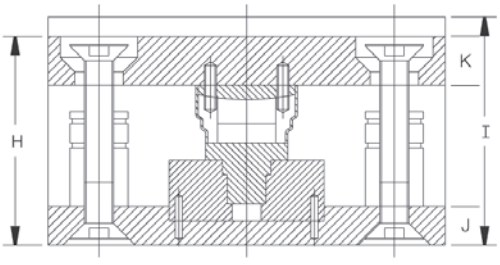
Replacement Mount Parts

Load Rating (Per Module)	Part #	Price
Saddle 5,000 to 10,000 kg	**227786**	Consult
Rolling cylinder 5,000 to 10,000 kg	**170882**	Consult
Load adapter 5,000 kg	**170880**	Consult
Load adapter 10,000 kg	**170881**	Consult
Rubber boot 5,000 to 10,000 kg	**171211**	Consult
Saddle 20,000 to 30,000 kg	**170884**	Consult
Rolling cylinder 5,000 to 10,000 kg	**170885**	Consult
Load adapter 5,000 to 10,000 kg	**170883**	Consult
Rubber boot 5,000 to 10,000 kg	**171212**	Consult

Dimensions

Rated Capacity	A	B	C	D	E	H	I	J	K
kg/mm									
5,000 to 10,000	127.0	203.0	90.0	170.0	18.0	107.0	Load Cell Replacement Height: 118.0 Operating Height: 107.0	19.1	25.4
20,000 to 30,000	152.0	245.0	115.0	208.0	24.0	148.0	Load Cell Replacement Height: 156.0 Operating Height: 148.1	31.8	25.4

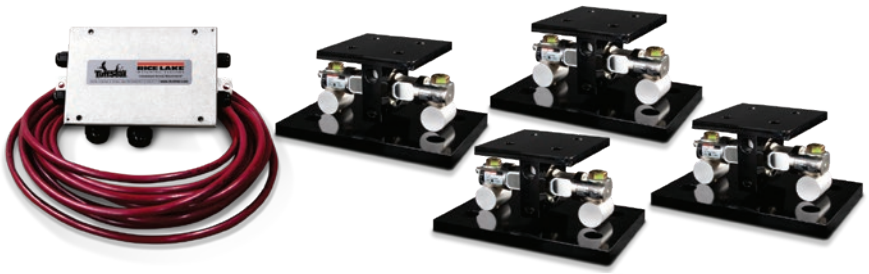


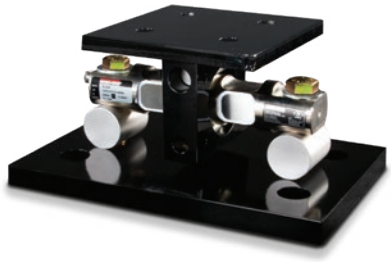


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EZ Mount 1 with RL72020

Mild Steel, Weigh Module Kit





Picture is a representation of actual product.

Load Cell Approvals

Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
5,000 to 20,000 lb	**17823**	Consult
30,000 to 60,000 lb	**17824**	Consult
100,000 lb	**17850**	Consult
150,000 lb	**29012**	Consult
200,000 to 250,000 lb	**26068**	Consult
3-Module Kit		
5,000 lb	**208881**	Consult
10,000 lb	**208882**	Consult
20,000 lb	**208883**	Consult
30,000 lb	**208884**	Consult
40,000 lb	**208885**	Consult
50,000 lb	**208886**	Consult
60,000 lb	**208887**	Consult
100,000 lb	**208888**	Consult
150,000 lb	**208889**	Consult
4-Module Kit		
5,000 lb	**208892**	Consult
10,000 lb	**208893**	Consult
20,000 lb	**208894**	Consult
30,000 lb	**208895**	Consult
40,000 lb	**208896**	Consult
50,000 lb	**208897**	Consult
60,000 lb	**208898**	Consult
100,000 lb	**208899**	Consult
150,000 lb	**208900**	Consult

VPG Revere 5103 Order Information

Load Rating (Per Module)	Part #	Price
3-Module Kit		
5,000 lb	**18175**	Consult
10,000 lb	**18176**	Consult
20,000 lb	**18177**	Consult
30,000 lb	**32169**	Consult
40,000 lb	**32171**	Consult
50,000 lb	**18178**	Consult
60,000 lb	**18179**	Consult
100,000 lb	**18180**	Consult
150,000 lb	**18181**	Consult
4-Module Kit		
5,000 lb	**18182**	Consult
10,000 lb	**18183**	Consult
20,000 lb	**18184**	Consult
30,000 lb	**32170**	Consult
40,000 lb	**32172**	Consult
50,000 lb	**18185**	Consult
60,000 lb	**18186**	Consult
100,000 lb	**18187**	Consult
150,000 lb	**18188**	Consult
Dummy Load Cells		
5,000 to 20,000 lb	**33749**	Consult
30,000 to 60,000 lb	**74016**	Consult
100,000 lb	**94175**	Consult
150,000 lb	**158715**	Consult
Grounding Kit		
5,000 to 60,000 lb	**126419**	Consult

Complete Kit Includes

- Three or four EZ Mount 1 mild steel compression mounts with RL72020 NTEP Certified double-ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 5,000 to 250,000 lb
- Unique sliding pin design compensates for thermal expansion/contraction
- Coated mild steel construction
- Self-checking
- Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Double-ended beam design, center loaded
- Low-profile design
- Compatible with VPG® Revere 5103 load cell

Applications

- Medium- to heavy-capacity tank and hopper weighing applications

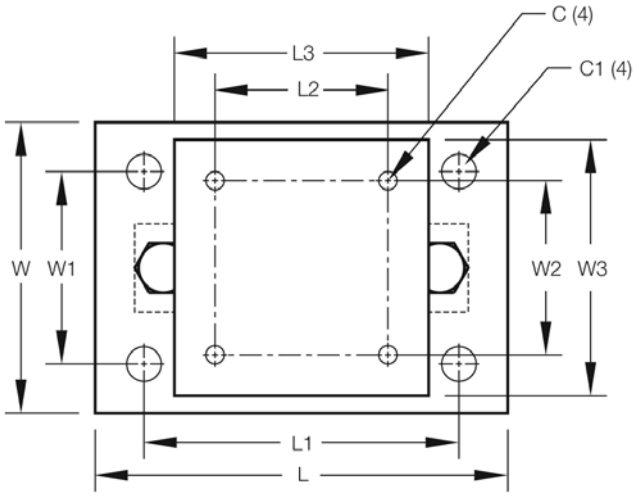
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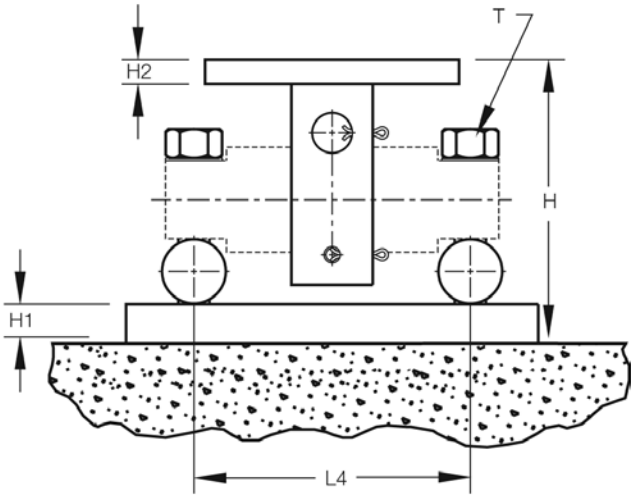
EZ Mount 1 with RL72020

Mild Steel, Weigh Module Kit

Dimensions

Rated Capacity	C	C1	H	H1	H2	L	L1	L2	L3	L4	T	W	W1	W2	W3
lb/in															
5,000 to 20,000	0.56	1.06	5.31	0.75	0.50	11.00	8.00	3.00	6.00	6.87	5/8-18 UNF	7.50	4.00	3.00	6.00
30,000 to 60,000	0.68	1.19	8.43	1.00	0.75	15.00	11.50	5.12	8.00	8.50	1-14 UNS	10.00	6.00	5.12	8.00
100,000 to 150,000	0.81	1.38	10.37	1.25	1.25	18.00	14.00	7.50	10.00	9.50	1-14 UNS	12.00	9.00	7.50	10.00
200,000 to 250,000	1.06	1.88	16.75	2.00	2.00	26.00	20.00	9.00	12.00	13.00	1 1/2-12 UNS	12.00	6.00	9.00	12.00

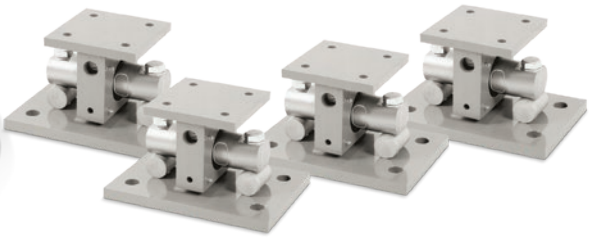


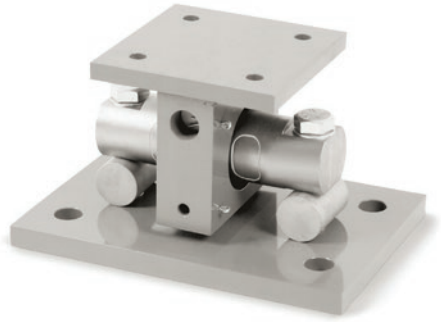


EZ Mount 1 SS with RL72020SS

Stainless Steel, Weigh Module Kit







Picture is a representation of actual product.

Load Cell Approvals

NTEP Excluding 5K and 150K

Complete Kit Includes

- Three or four EZ Mount 1 stainless steel compression mounts with RL72020SS stainless steel double-ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 5,000 to 150,000 lb
- NTEP Certified load cells (except for 5,000 and 150,000 lb modules)
- Stainless steel construction
- Unique sliding pin design compensates for thermal expansion/contraction
- Self-checking
- Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Double-ended beam design, center-loaded
- Low-profile design
- Compatible with VPG® Revere 9103 load cell

Applications

- Medium- to heavy-capacity tank and hopper weighing applications

Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
5,000 to 20,000 lb	**17943**	Consult
30,000 to 60,000 lb	**17944**	Consult
100,000 lb	**17945**	Consult
150,000 lb	**29011**	Consult
3-Module Kit		
5,000 lb*	**208914**	Consult
10,000 lb	**208917**	Consult
20,000 lb	**208918**	Consult
30,000 lb	**208919**	Consult
40,000 lb	**208920**	Consult
50,000 lb	**208921**	Consult
60,000 lb	**208922**	Consult
100,000 lb	**208923**	Consult
150,000 lb*	**208924**	Consult

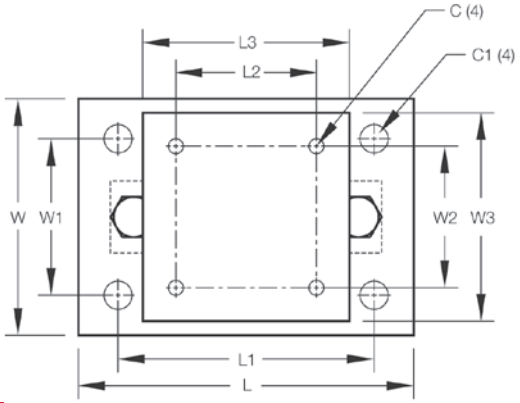
** Non-NTEP Certified*

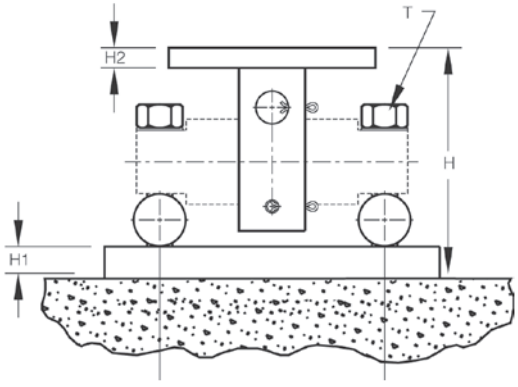
Load Rating (Per Module)	Part #	Price
4-Module Kit		
5,000 lb*	**208925**	Consult
10,000 lb	**208926**	Consult
20,000 lb	**208927**	Consult
30,000 lb	**208928**	Consult
40,000 lb	**208929**	Consult
50,000 lb	**208930**	Consult
60,000 lb	**208931**	Consult
100,000 lb	**208932**	Consult
150,000 lb*	**208933**	Consult
Dummy Load Cells (Mild Steel)		
5,000 to 20,000 lb	**33749**	Consult
30,000 to 60,000 lb	**74016**	Consult
100,000 lb	**94175**	Consult
150,000 lb	**158715**	Consult
Grounding Kit		
5,000 to 60,000 lb	**126419**	Consult

Includes ground strap and mounting hardware per mount

Dimensions

Rated Capacity	C	C1	H	H1	H2	L	L1	L2	L3	L4	T	W	W1	W2	W3
lb/in															
5,000 to 20,000	0.56	1.06	5.31	0.75	0.50	11.00	8.00	3.00	6.00	6.87	5/8-18 UNF	7.50	4.00	3.00	6.00
30,000 to 60,000	0.68	1.19	8.43	1.00	0.75	15.00	11.50	5.12	8.00	8.50	1-14 UNS	10.00	6.00	5.12	8.00
100,000 to 150,000	0.81	1.38	10.37	1.25	1.25	18.00	14.00	7.50	10.00	9.50	1-14 UNS	12.00	9.00	7.50	10.00





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EZ Mount 1 with MLC Coated RL72020

Stainless Steel, Weigh Module Kit



Picture is a representation of actual product.

Load Cell Approvals

Complete Kit Includes

- Three or four EZ Mount 1 stainless steel compression mounts with RL72020 MLC Coated NTEP Certified double-ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 5,000 to 150,000 lb
- Unique sliding pin design compensates for thermal expansion/contraction
- Stainless steel construction (mount)
- Self-checking
- Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Double-ended design, center-loaded
- Low-profile design

Applications

- Medium- to heavy-capacity tank and fertilizer hopper weighing applications

Order Information

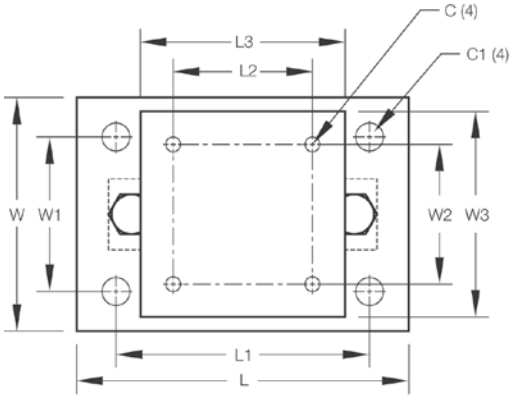
Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
5,000 to 20,000 lb	**17943**	Consult
30,000 to 60,000 lb	**17944**	Consult
100,000 lb	**17945**	Consult
150,000 lb	**29011**	Consult
3-Module Kit		
5,000 lb	**208957**	Consult
10,000 lb	**208959**	Consult
20,000 lb	**208961**	Consult
30,000 lb	**208963**	Consult
40,000 lb	**208965**	Consult
50,000 lb	**208967**	Consult
60,000 lb	**208969**	Consult
100,000 lb	**208971**	Consult
150,000 lb	**208973**	Consult

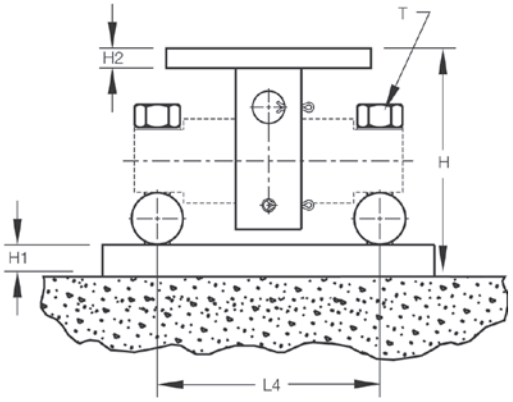
Load Rating (Per Module)	Part #	Price
4-Module Kit		
5,000 lb	**208958**	Consult
10,000 lb	**208960**	Consult
20,000 lb	**208962**	Consult
30,000 lb	**208964**	Consult
40,000 lb	**208966**	Consult
50,000 lb	**208968**	Consult
60,000 lb	**208970**	Consult
100,000 lb	**208972**	Consult
150,000 lb	**208974**	Consult
Dummy Load Cells (Mild Steel)		
5,000 to 20,000 lb	**33749**	Consult
30,000 to 60,000 lb	**74016**	Consult
100,000 lb	**94175**	Consult
150,000 lb	**158715**	Consult
Grounding Kit		
5,000 to 60,000 lb	**126419**	Consult

Includes ground strap and mounting hardware per mount

Dimensions

Rated Capacity	C	C1	H	H1	H2	L	L1	L2	L3	L4	T	W	W1	W2	W3
lb/in															
5,000 to 20,000	0.56	1.06	5.31	0.75	0.50	11.00	8.00	3.00	6.00	6.87	5/8-18 UNF	7.50	4.00	3.00	6.00
30,000 to 60,000	0.68	1.19	8.43	1.00	0.75	15.00	11.50	5.12	8.00	8.50	1-14 UNS	10.00	6.00	5.12	8.00
100,000 to 150,000	0.81	1.38	10.37	1.25	1.25	18.00	14.00	7.50	10.00	9.50	1-14 UNS	12.00	9.00	7.50	10.00





EZ Mount 1 HE

Stainless Steel, Weigh Module Kit



Picture is a representation of actual product.

Load Cell Approvals

Complete Kit Includes

- Three or four EZ Mount 1 stainless steel compression mounts with RL72019SS welded-seal stainless steel double-ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 5,000 to 60,000 lb
- NTEP Certified (except 5,000 lb module)
- Stainless steel construction
- Unique sliding pin design compensates for thermal expansion/contraction
- Self-checking
- Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Double-ended beam design, center-loaded
- Low-profile design

Applications

- Medium- to heavy-capacity tank and hopper weighing applications

Order Information

Load Rating (Per Module)	Part #	Price
3-Module Kit		
5,000 lb*	**46695**	Consult
10,000 lb	**46696**	Consult
20,000 lb	**46697**	Consult
30,000 lb	**46698**	Consult
40,000 lb	**46699**	Consult
50,000 lb	**46700**	Consult
60,000 lb	**46701**	Consult
4-Module Kit		
5,000 lb*	**46702**	Consult
10,000 lb	**46703**	Consult
20,000 lb	**46704**	Consult
30,000 lb	**46705**	Consult
40,000 lb	**46706**	Consult
50,000 lb	**46707**	Consult
60,000 lb	**46708**	Consult
Dummy Load Cells (Mild Steel)		
5,000 to 20,000 lb	**33749**	Consult
30,000 to 60,000 lb	**74016**	Consult
Grounding Kit		
5,000 to 60,000 lb	**126419**	Consult

Includes ground strap and mounting hardware
**Non-NTEP*

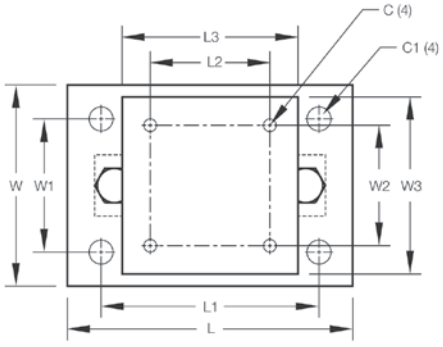
Shims

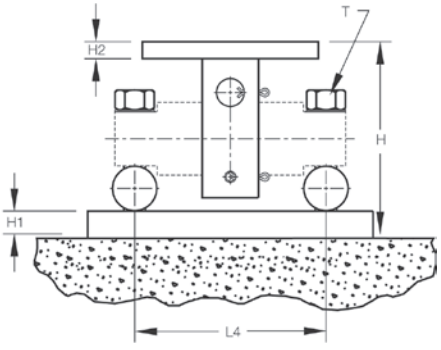
	Part #	Price
5,000 to 20,000 lb, Stainless Steel		
0.0625 in	**150886**	Consult
0.125 in	**150888**	Consult
0.250 in	**150889**	Consult
30,000 to 60,000 lb, Stainless Steel		
0.0625 in	**150890**	Consult
0.125 in	**150891**	Consult
0.250 in	**150892**	Consult
5,000 to 20,000 lb, Mild Steel		
0.0625 in	**150874**	Consult
0.125 in	**150876**	Consult
0.250 in	**150877**	Consult
30,000 to 60,000 lb, Mild Steel		
0.0625 in	**150878**	Consult
0.125 in	**150880**	Consult
0.250 in	**150881**	Consult

Dimensions

Rated Capacity	C	C1	H	H1	H2	L	L1	L2	L3	L4	T	W	W1	W2	W3
lb/in															
5,000 to 20,000	0.56	1.06	5.31	0.75	0.50	11.00	8.00	3.00	6.00	6.87	5/8-18 UNF	7.50	4.00	3.00	6.00
30,000 to 60,000	0.68	1.19	8.43	1.00	0.75	15.00	11.50	5.12	8.00	8.50	1-14 UNS	10.00	6.00	5.12	8.00

NOTES: Mounting bolts (T) may project on lower side of base plate. Foundation plate not included





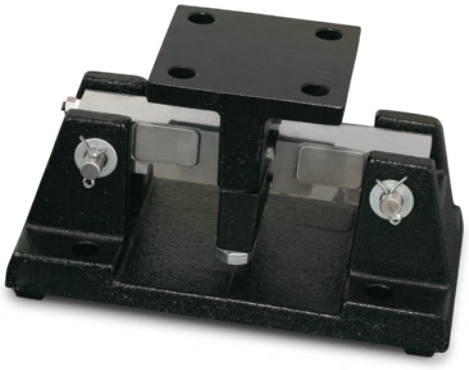
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RL1600 Series with RL77032

Cast Iron, Weigh Module Kit

NEW





Picture is a representation of actual product.

Complete Kit Includes

- Three or four RL1600 cast iron compression mounts with RL77032 environmentally protected double-ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 1,000 to 25,000 lb
- Cast iron construction
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Double-ended beam design, center loaded
- Compatible with VPG® Sensortronics® 65016 load cells, capacities (per module): 1,000 to 25,000 lb

Applications

- Medium- to heavy-capacity tanks, bins and hoppers
- Bulk material management

Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
1,000 to 5,000 lb	**17964**	Consult
10,000 to 25,000 lb	**17965**	Consult
3-Module Kit		
1,000 lb	**228436**	Consult
1,500 lb	**228439**	Consult
2,000 lb	**228441**	Consult
2,500 lb	**228444**	Consult
3,000 lb	**228446**	Consult
5,000 lb	**228448**	Consult
10,000 lb	**228450**	Consult
15,000 lb	**228452**	Consult
20,000 lb	**228454**	Consult
25,000 lb	**228456**	Consult
4-Module Kit		
1,000 lb	**228438**	Consult
1,500 lb	**228440**	Consult
2,000 lb	**228442**	Consult
2,500 lb	**228445**	Consult
3,000 lb	**228447**	Consult
5,000 lb	**228449**	Consult
10,000 lb	**228451**	Consult
15,000 lb	**228453**	Consult
20,000 lb	**228455**	Consult
25,000 lb	**228457**	Consult

Contact factory for load cell upgrade

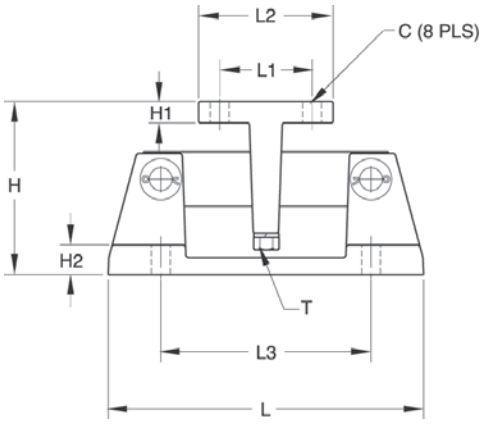
VPG Sensortronics 65016 Order Information

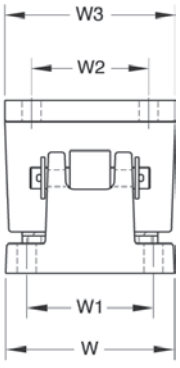
Load Rating (Per Module)	Part #	Price
3-Module Kit		
1,000 lb	**25685**	Consult
1,500 lb	**25686**	Consult
2,500 lb	**25688**	Consult
5,000 lb	**25690**	Consult
10,000 lb	**25691**	Consult
15,000 lb	**25692**	Consult
20,000 lb	**25693**	Consult
25,000 lb	**25694**	Consult
4-Module Kit		
1,000 lb	**25695**	Consult
1,500 lb	**25696**	Consult
2,500 lb	**25698**	Consult
5,000 lb	**25700**	Consult
10,000 lb	**25701**	Consult
15,000 lb	**25702**	Consult
20,000 lb	**25703**	Consult
25,000 lb	**25704**	Consult
Dummy Load Cells		
1,000 to 5,000 lb	**18236**	Consult
10,000 to 25,000 lb	**18237**	Consult

Contact factory for load cell upgrade

Shims, Mild Steel

	Part #	Price
1,000 to 5,000 lb		
0.0625 in	**150844**	Consult
0.125 in	**150845**	Consult
0.250 in	**150846**	Consult
10,000 to 25,000 lb		
0.0625 in	**150847**	Consult
0.125 in	**150848**	Consult
0.250 in	**150849**	Consult





Dimensions

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/in													
1,000 to 5,000	0.56	5.00	0.50	0.50	9.31	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000 to 25,000	0.78	7.89	0.75	0.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00

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RL1600 Series with RL77032

Mild Steel, Weigh Module Kit



Picture is a representation of actual product.

Load Cell Approvals

FM APPROVED

Complete Kit Includes

- Three or four RL1600 mild steel compression mounts with RL77032 environmentally protected double-ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 1,000 to 75,000 lb
- Coated mild steel construction
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Double-ended shear beam design, center loaded
- Compatible with VPG® Sensortronics® 65016 load cells

Applications

- Medium- to heavy-capacity tanks, bins and hoppers
- Bulk material management

Order Information

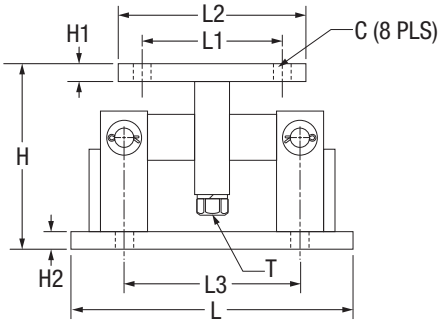
Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
1,000 to 5,000 lb	**17812**	Consult
10,000 to 25,000 lb	**17814**	Consult
50,000 lb	**17816**	Consult
75,000 lb	**25346**	Consult
3-Module Kit		
1,000 lb	**225213**	Consult
1,500 lb	**225214**	Consult
2,000 lb	**225215**	Consult
2,500 lb	**225216**	Consult
3,000 lb	**225217**	Consult
5,000 lb	**225218**	Consult
10,000 lb	**225219**	Consult
15,000 lb	**225220**	Consult
20,000 lb	**225221**	Consult
25,000 lb	**225222**	Consult
50,000 lb	**225223**	Consult
75,000 lb	**225224**	Consult
4-Module Kit		
1,000 lb	**225226**	Consult
1,500 lb	**225227**	Consult
2,000 lb	**225229**	Consult
2,500 lb	**225231**	Consult
3,000 lb	**225232**	Consult
5,000 lb	**225233**	Consult
10,000 lb	**225234**	Consult
15,000 lb	**225235**	Consult
20,000 lb	**225236**	Consult
25,000 lb	**225237**	Consult
50,000 lb	**225238**	Consult
75,000 lb	**225239**	Consult

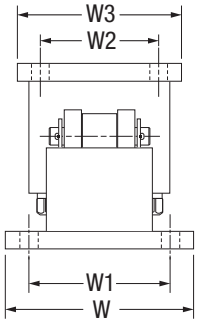
VPG Sensortronics 65016 Order Information

Load Rating (Per Module)	Part #	Price
3-Module Kit		
1,000 lb	**18189**	Consult
1,500 lb	**18190**	Consult
2,500 lb	**18192**	Consult
5,000 lb	**18194**	Consult
10,000 lb	**18195**	Consult
15,000 lb	**18196**	Consult
20,000 lb	**18197**	Consult
25,000 lb	**18198**	Consult
50,000 lb	**18199**	Consult
75,000 lb	**25350**	Consult
4-Module Kit		
1,000 lb	**18201**	Consult
1,500 lb	**18202**	Consult
2,500 lb	**18204**	Consult
5,000 lb	**18206**	Consult
10,000 lb	**18207**	Consult
15,000 lb	**18208**	Consult
20,000 lb	**18209**	Consult
25,000 lb	**18210**	Consult
50,000 lb	**18211**	Consult
75,000 lb	**25351**	Consult
Dummy Load Cells		
1,000 to 5,000 lb	**18236**	Consult
10,000 to 25,000 lb	**18237**	Consult
50,000 lb	**18238**	Consult

Shims, Mild Steel

	Part #	Price
1,000 to 5,000 lb		
0.0625 in	**150844**	Consult
0.125 in	**150845**	Consult
0.250 in	**150846**	Consult
10,000 to 25,000 lb		
0.0625 in	**150847**	Consult
0.125 in	**150848**	Consult
0.250 in	**150849**	Consult
50,000 to 75,000 lb		
0.0625 in	**150850**	Consult
0.125 in	**150851**	Consult
0.250 in	**150866**	Consult





Dimensions

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/in													
1,000 to 5,000	0.56	5.00	0.50	0.50	9.25	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000 to 25,000	0.78	7.87	0.75	0.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00
50,000 to 75,000	0.78	9.25	1.00	1.00	16.25	6.50	9.00	11.50	1 1/4-7 UNC	12.00	9.50	6.50	9.00

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Limited Stock Available

RL1600 Series with RL75016SS

Stainless Steel, Weigh Module Kit



Picture is a representation of actual product.

Load Cell Approvals

FM APPROVED

Complete Kit Includes

- Three or four RL1600 stainless steel compression mounts with RL75016SS environmentally protected stainless steel double-ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

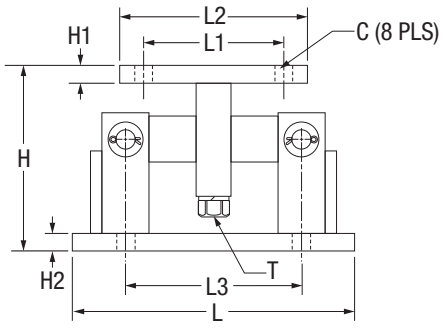
- Capacities (per module): 1,000 to 75,000 lb
- Stainless steel construction
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Double-ended shear beam design, center loaded
- Compatible with VPG® Sensortronics® 65016W SS load cells

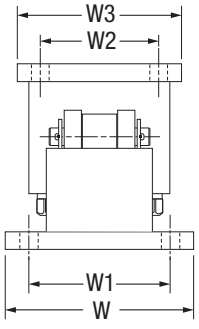
Applications

- Medium- to heavy-capacity tanks, bins and hoppers
- Bulk material management

VPG Sensortronics 65016W Order Information

Load Rating (Per Module)	Part #	Price
3-Module Kit		
1,000 lb	**18213**	Consult
1,500 lb	**18214**	Consult
2,500 lb	**18216**	Consult
5,000 lb	**18217**	Consult
10,000 lb	**18218**	Consult
15,000 lb	**18219**	Consult
20,000 lb	**18220**	Consult
25,000 lb	**18221**	Consult
50,000 lb	**18222**	Consult
75,000 lb	**25354**	Consult
4-Module Kit		
1,000 lb	**18224**	Consult
1,500 lb	**18225**	Consult
2,500 lb	**18227**	Consult
5,000 lb	**18228**	Consult
10,000 lb	**18229**	Consult
15,000 lb	**18230**	Consult
20,000 lb	**18231**	Consult
25,000 lb	**18232**	Consult
50,000 lb	**18233**	Consult
75,000 lb	**25355**	Consult
Dummy Load Cells (Mild Steel)		
1,000 to 5,000 lb	**18236**	Consult
10,000 to 25,000 lb	**18237**	Consult
50,000 lb	**18238**	Consult





Shims, Stainless

	Part #	Price
1,000 to 5,000 lb		
0.0625 in	**150852**	Consult
0.125 in	**150853**	Consult
0.250 in	**150854**	Consult
10,000 to 25,000 lb		
0.0625 in	**150855**	Consult
0.125 in	**150856**	Consult
0.250 in	**150857**	Consult
50,000 to 75,000 lb		
0.0625 in	**150858**	Consult
0.125 in	**150859**	Consult
0.250 in	**150861**	Consult

Dimensions

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/in													
1,000 to 5,000	0.56	5.00	0.50	0.50	9.25	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000 to 25,000	0.78	7.87	0.75	0.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00
50,000 to 75,000	0.78	9.25	1.00	1.00	16.25	6.50	9.00	11.50	1 1/4-7 UNC	12.00	9.50	6.50	9.00

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RL1600 SS Series with RL77032SS

Stainless Steel, Weigh Module Kit



Picture is a representation of actual product.

Load Cell Approvals

FM APPROVED

Complete Kit Includes

- Three or four RL1600 stainless steel compression mounts with RL77032SS environmentally protected stainless steel double-ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 1,000 to 75,000 lb
- Stainless steel construction
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Double-ended shear beam design, center loaded
- Compatible with VPG® Sensortronics® 65016W SS load cells

Applications

- Medium- to heavy-capacity tanks, bins and hoppers
- Bulk material management

Order Information

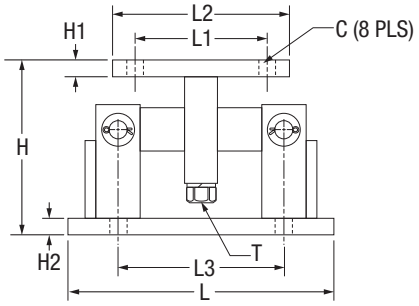
Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
1,000 to 5,000 lb	**17813**	Consult
10,000 to 25,000 lb	**17815**	Consult
50,000 lb	**17842**	Consult
75,000 lb	**25347**	Consult
3-Module Kit		
1,000 lb	**225333**	Consult
1,500 lb	**225334**	Consult
2,000 lb	**225335**	Consult
2,500 lb	**225336**	Consult
5,000 lb	**225337**	Consult
10,000 lb	**225338**	Consult
15,000 lb	**225340**	Consult
20,000 lb	**225341**	Consult
25,000 lb	**225342**	Consult
50,000 lb	**225343**	Consult
75,000 lb	**225344**	Consult
4-Module Kit		
1,000 lb	**225347**	Consult
1,500 lb	**225349**	Consult
2,000 lb	**225350**	Consult
2,500 lb	**225351**	Consult
5,000 lb	**225352**	Consult
10,000 lb	**225353**	Consult
15,000 lb	**225354**	Consult
20,000 lb	**225355**	Consult
25,000 lb	**225356**	Consult
50,000 lb	**225357**	Consult
75,000 lb	**225358**	Consult

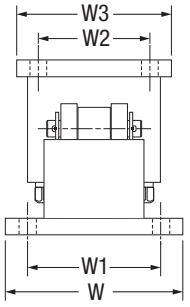
VPG Sensortronics 65016W Order Information

Load Rating (Per Module)	Part #	Price
3-Module Kit		
1,000 lb	**18213**	Consult
1,500 lb	**18214**	Consult
2,500 lb	**18216**	Consult
5,000 lb	**18217**	Consult
10,000 lb	**18218**	Consult
15,000 lb	**18219**	Consult
20,000 lb	**18220**	Consult
25,000 lb	**18221**	Consult
50,000 lb	**18222**	Consult
75,000 lb	**25354**	Consult
4-Module Kit		
1,000 lb	**18224**	Consult
1,500 lb	**18225**	Consult
2,500 lb	**18227**	Consult
5,000 lb	**18228**	Consult
10,000 lb	**18229**	Consult
15,000 lb	**18230**	Consult
20,000 lb	**18231**	Consult
25,000 lb	**18232**	Consult
50,000 lb	**18233**	Consult
75,000 lb	**25355**	Consult
Dummy Load Cells (Mild Steel)		
1,000 to 5,000 lb	**18236**	Consult
10,000 to 25,000 lb	**18237**	Consult
50,000 lb	**18238**	Consult

Shims, Stainless

	Part #	Price
1,000 to 5,000 lb		
0.0625 in	**150852**	Consult
0.125 in	**150853**	Consult
0.250 in	**150854**	Consult
10,000 to 25,000 lb		
0.0625 in	**150855**	Consult
0.125 in	**150856**	Consult
0.250 in	**150857**	Consult
50,000 to 75,000 lb		
0.0625 in	**150858**	Consult
0.125 in	**150859**	Consult
0.250 in	**150861**	Consult





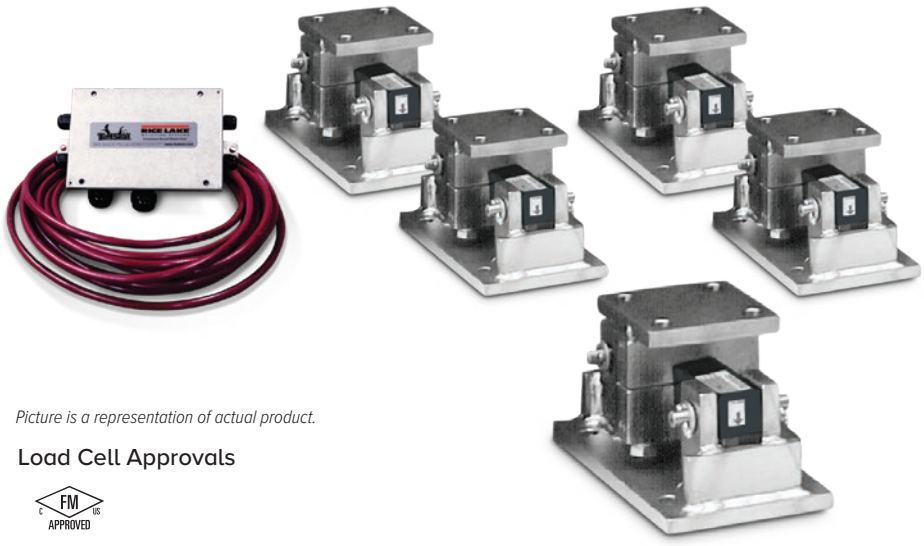
Dimensions

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/in													
1,000 to 5,000	0.56	5.00	0.50	0.50	9.25	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000 to 25,000	0.78	7.87	0.75	0.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00
50,000 to 75,000	0.78	9.25	1.00	1.00	16.25	6.50	9.00	11.50	1 1/4-7 UNC	12.00	9.50	6.50	9.00

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RL1600 Series with MLC Coated RL75016

Stainless Steel, Weigh Module Kit



Picture is a representation of actual product.

Load Cell Approvals

FM APPROVED

Complete Kit Includes

- Three or four RL1600 stainless steel compression mounts with MLC Coated RL75016 alloy steel, environmentally sealed, double ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 1,000 to 75,000 lb
- Stainless steel construction (mounts)
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Double-ended shear beam design, center loaded

Applications

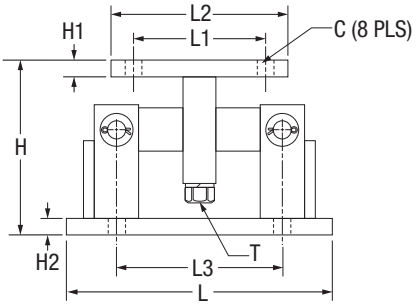
- Medium-to heavy-capacity tanks, bins, and hoppers
- Bulk material management

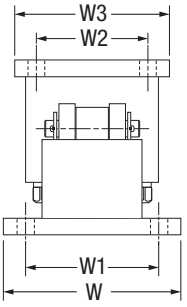
Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
1,000 to 5,000 lb	**17813**	Consult
10,000 to 25,000 lb	**17815**	Consult
50,000 lb	**17842**	Consult
75,000 lb	**25347**	Consult
3-Module Kit		
1,000 lb	**199023**	Consult
1,500 lb	**199025**	Consult
2,000 lb	**199027**	Consult
2,500 lb	**199029**	Consult
3,000 lb	**199031**	Consult
5,000 lb	**199033**	Consult
10,000 lb	**199035**	Consult
15,000 lb	**199037**	Consult
20,000 lb	**199038**	Consult
25,000 lb	**199040**	Consult
50,000 lb	**199042**	Consult
75,000 lb	**199044**	Consult
4-Module Kit		
1,000 lb	**199024**	Consult
1,500 lb	**199026**	Consult
2,000 lb	**199028**	Consult
2,500 lb	**199030**	Consult
3,000 lb	**199032**	Consult
5,000 lb	**199034**	Consult
10,000 lb	**199036**	Consult
15,000 lb	**199056**	Consult
20,000 lb	**199039**	Consult
25,000 lb	**199041**	Consult
50,000 lb	**199043**	Consult
75,000 lb	**199045**	Consult

Shims, Stainless

	Part #	Price
1,000 to 5,000 lb		
0.0625 in	**150852**	Consult
0.125 in	**150853**	Consult
0.250 in	**150854**	Consult
10,000 to 25,000 lb		
0.0625 in	**150855**	Consult
0.125 in	**150856**	Consult
0.250 in	**150857**	Consult
50,000 to 75,000 lb		
0.0625 in	**150858**	Consult
0.125 in	**150859**	Consult
0.250 in	**150861**	Consult





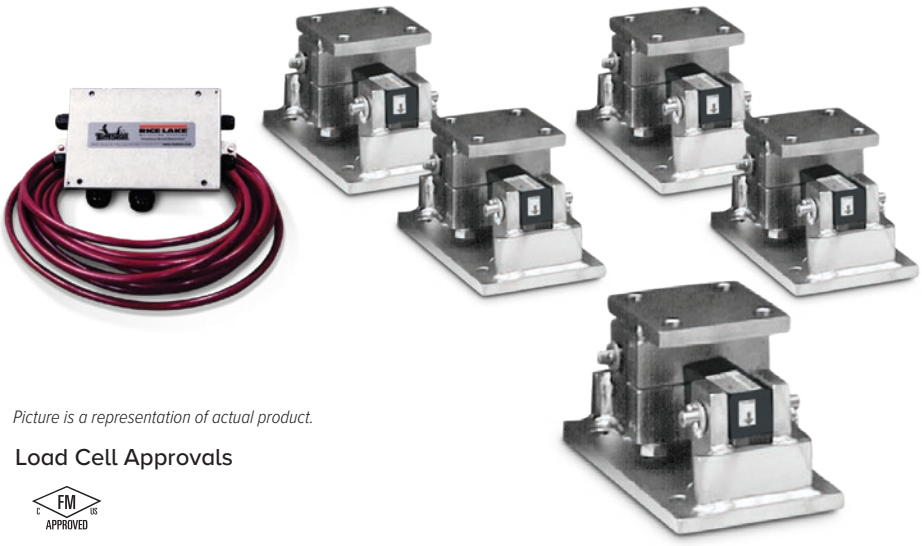
Dimensions

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/in													
1,000 to 5,000	0.56	5.00	0.50	0.50	9.25	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000 to 25,000	0.78	7.87	0.75	0.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00
50,000 to 75,000	0.78	9.25	1.00	1.00	16.25	6.50	9.00	11.50	1 1/4-7 UNC	12.00	9.50	6.50	9.00

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RL1600 HE Series with RL77032SS HE

Stainless Steel, Weigh Module Kit



Picture is a representation of actual product.

Load Cell Approvals

FM APPROVED

Complete Kit Includes

- Three or four RL1600 HE stainless steel compression mounts with RL77032SS HE stainless steel, hermetically sealed, double-ended shear beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of hostile environment EL147HE SURVIVOR load cell cable

Standard Features

- Stainless steel construction
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Center loaded

Applications

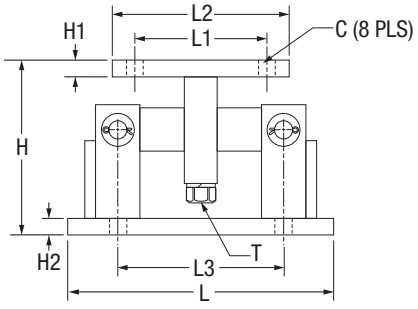
- Medium-capacity tanks, bins and hoppers
- Bulk material management
- Ingredient batching, mixing and blending

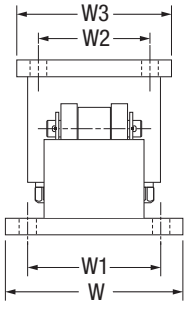
Order Information

Load Rating (Per Module)	Part #	Price
Single Module (Does NOT Include Load Cell)		
1,000 to 5,000 lb	**17813**	Consult
10,000 to 25,000 lb	**17815**	Consult
50,000 lb	**17842**	Consult
75,000 lb	**25347**	Consult
3-Module Kit		
1,000 lb	**225359**	Consult
1,500 lb	**225360**	Consult
2,000 lb	**225361**	Consult
2,500 lb	**225362**	Consult
5,000 lb	**225363**	Consult
10,000 lb	**225364**	Consult
15,000 lb	**225365**	Consult
20,000 lb	**225366**	Consult
25,000 lb	**225367**	Consult
50,000 lb	**225368**	Consult
75,000 lb	**225369**	Consult
4-Module Kit		
1,000 lb	**225370**	Consult
1,500 lb	**225371**	Consult
2,000 lb	**225372**	Consult
2,500 lb	**225373**	Consult
5,000 lb	**225374**	Consult
10,000 lb	**225375**	Consult
15,000 lb	**225376**	Consult
20,000 lb	**225377**	Consult
25,000 lb	**225378**	Consult
50,000 lb	**225379**	Consult
75,000 lb	**225380**	Consult
Dummy Load Cell		
1,000 to 5,000 lb	**18236**	Consult
10,000 to 25,000 lb	**18237**	Consult

Shims, Stainless

	Part #	Price
1,000 to 5,000 lb		
0.0625 in	**150852**	Consult
0.125 in	**150853**	Consult
0.250 in	**150854**	Consult
10,000 to 25,000 lb		
0.0625 in	**150855**	Consult
0.125 in	**150856**	Consult
0.250 in	**150857**	Consult
50,000 to 75,000 lb		
0.0625 in	**150858**	Consult
0.125 in	**150859**	Consult
0.250 in	**150861**	Consult





Dimensions

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/in													
1,000 to 5,000	0.56	5.00	0.50	0.50	9.25	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000 to 25,000	0.78	7.87	0.75	0.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00
50,000 to 75,000	0.78	9.25	1.00	1.00	16.25	6.50	9.00	11.50	1 1/4-7 UNC	12.00	9.50	6.50	9.00

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MVS Mount/MVS

Mild Steel, Weigh Module Conversion Kit



Picture is a representation of actual product.

Load Cell Approvals

Order Information

Load Rating (Per Module)	Part #	Price
MVS Mount (Does NOT Include Load Cell)		
10,000 to 25,000 lb	**71200**	Consult
50,000 to 75,000 lb	**46441**	Consult
100,000 to 125,000 lb	**68520**	Consult
MVS Conversion Kits (Includes 75,000 lb* Load Cells, Mounts and Junction Box)		
4-module kit	**68495**	Consult
6-module kit	**68496**	Consult
8-module kit	**68497**	Consult
10-module kit	**68498**	Consult
Dummy Load Cell		
50,000 to 75,000 lb	**169388**	Consult
100,000 to 125,000 lb	**159696**	Consult

Custom heights available; Consult
**Consult for other capacity requirements*

Complete Kit Includes

- Four to ten MVS mild steel mounts with RL75058-LP 75,000 lb NTEP Certified alloy steel environmentally sealed double-ended beam load cells
- One JB8SPT NEMA 4 Type signal trim junction box (JB1010 on 10 module kit)
- 100 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

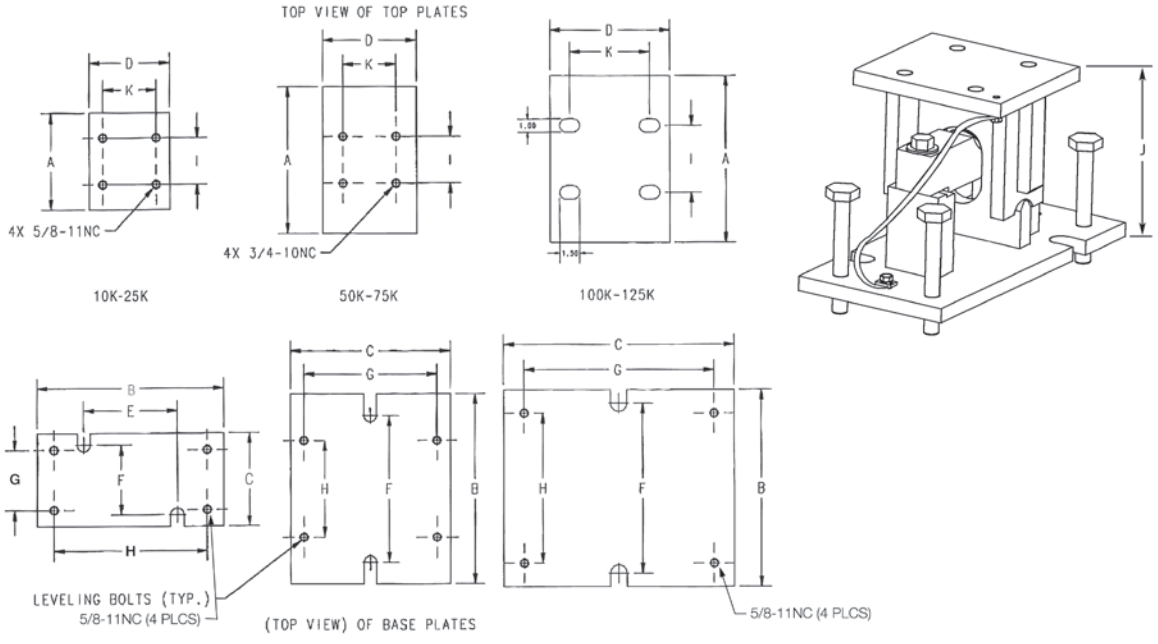
- Capacity (per module): 10,000 to 125,000 lb
- Mild steel construction
- Specially hardened center link
- Self-checking design
- Self-centering design
- Accommodates thermal expansion and contraction
- Compatible with VPG® Sensortronics® 65058 or VPG® Celtron® CLB

Applications

- Truck scale conversion
- Heavy-capacity horizontal tanks

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K
lb/in											
10,000 to 25,000	7.25	14.00	7.00	6.00	7.00	5.25	4.50	11.50	3.50	8.50	4.00
50,000 to 75,000	11.00	14.25	12.00	7.00	—	11.00	10.00	7.25	3.50	11.53	4.00
100,000 to 125,000	12.50	14.75	17.25	9.00	—	12.75	14.25	11.25	5.00	14.21	6.00



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Translink™ Parallel Link

Painted Mild Steel, Truck Scale Assembly



Mount only; does not include load cell.
Picture is a representation of actual product.

Standard Features

- Capacities (per module): 25,000 to 100,000 lb
- Painted mild steel construction
- Center-supported, end-loaded double-ended shear beam design
- Free movement in all directions in the horizontal plane with virtually no friction
- Links provide optimal loading conditions for the cell
- Self-centering
- Requires no check rods
- Utilizes cells with 3 mV/V output
- Compatible with Rice Lake RL75223 and RL75040, VPG® Revere 5223 and VPG® Sensortronics® 65040A load cells

Applications

- Truck scale mount
- Heavy-capacity horizontal tanks

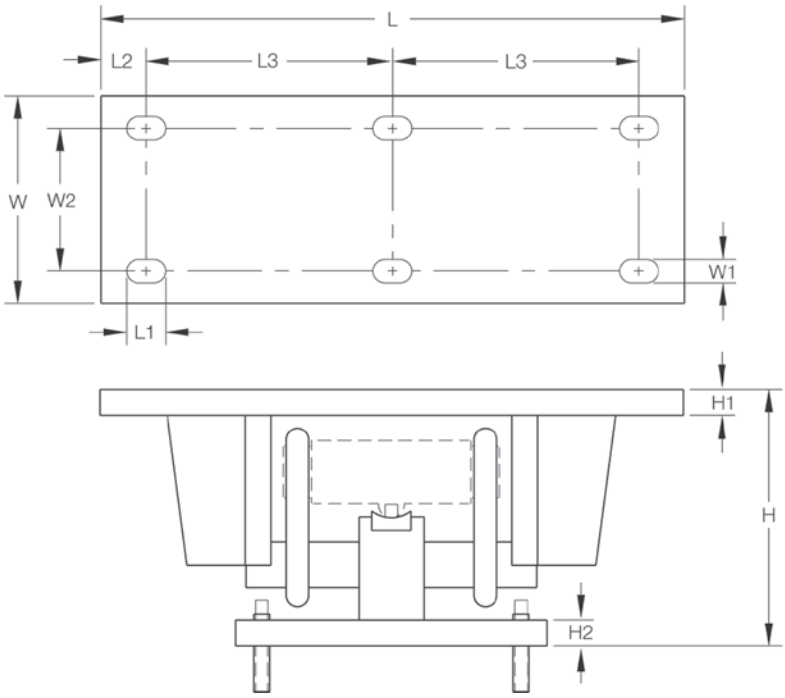
Order Information

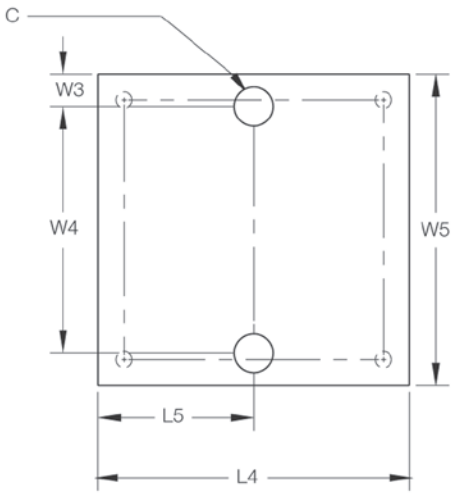
Load Rating (Per Module)	Part #	Price
For Use With RL75223, 5223 Load Cells		
50,000 to 100,000 lb	**17970**	Consult
For Use With RL75040, 65040A Load Cells		
25,000 to 40,000 lb	**17971**	Consult
50,000 to 75,000 lb	**17972**	Consult

Mount only; does not include load cell

Dimensions

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	L4	L5	W	W1	W2	W3	W4	W5
lb/in																
50,000 to 100,000 (RL75223, 5223)	1.50	12.93	1.00	1.00	22.50	1.50	1.75	9.50	11.75	5.88	7.75	0.91	5.25	1.25	9.25	11.75
25,000 to 40,000 (RL75040, 65040A)	1.50	9.88	1.00	1.00	18.50	1.50	1.75	7.50	11.75	5.88	7.75	0.91	5.25	1.25	9.25	11.75
50,000 to 75,000 (RL75040, 65040A)	1.50	12.82	1.00	1.00	22.50	1.50	1.75	9.50	11.75	5.88	7.75	0.91	5.25	1.25	9.25	11.75





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Motor Truck Scale

Electronic Weigh Module Conversion Kit



Picture is a representation of actual product.

Load Cell Approvals

Order Information

Load Cell Capacity (Per Module)	Part #	Load Cell Used In Kit	Price
4-Module Kit			
25,000 lb	**30513**	RL75040	Consult
40,000 lb	**30514**	RL75040	Consult
6-Module Kit			
50,000 lb	**30515**	RL75040	Consult
60,000 lb	**30516**	RL75040	Consult
8-Module Kit			
60,000 lb	**30517**	RL75040	Consult
75,000 lb	**30518**	RL75040	Consult
100,000 lb	**30512**	RL75223	Consult

SD refers to super duty, 100,000 lb capacity welded-seal load cells

Dimensions

Rated Capacity	C	H*	H1	H2	L	L1	L2	L3	L4	L5	W	W1	W2	W3	W4**	W5
lb/in																
50,000 to 100,000 (RL75223)	1.50	12.93	1.00	1.00	22.50	1.50	1.75	9.50	11.75	5.88	7.75	0.91	5.25	1.25	9.25	11.75
25,000 to 40,000 (RL75040)	1.50	9.88	1.00	1.00	18.50	1.50	1.75	7.50	11.75	5.88	7.75	0.91	5.25	1.25	9.25	11.75
50,000 to 75,000 (RL75040)	1.50	12.82	1.00	1.00	22.50	1.50	1.75	9.50	11.75	5.88	7.75	0.91	5.25	1.25	9.25	11.75

**Custom heights available; consult*

Complete Kit Includes

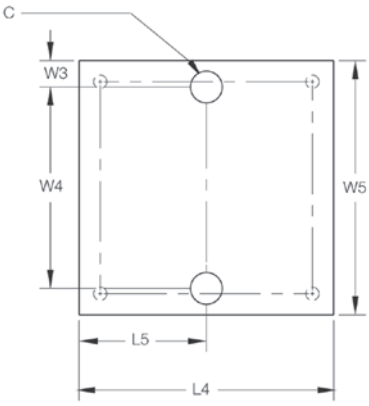
- Four, six or eight Translink™ mounting assemblies with NTEP Certified RL75040 or RL75223 welded-seal load cells
- One JB8SP NEMA Type 4X signal-trim junction box with individual and section trimming capability (six- and eight-mount kits) or one JB4SP NEMA Type 4X signal-trim junction box (four-mount kits)
- One UJB3T6 DC transient protector
- 100 ft of hostile environment EL147HE SURVIVOR® load cell cable

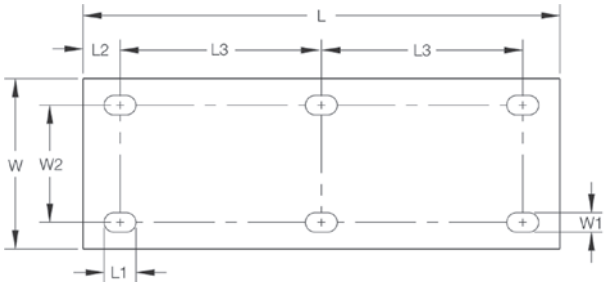
Standard Features

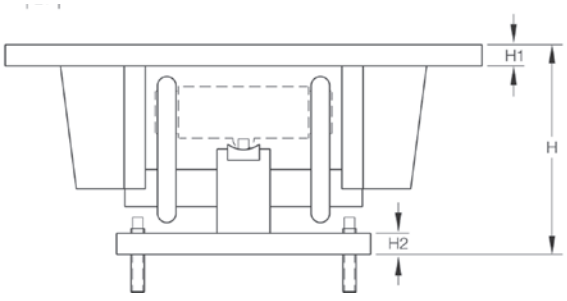
- Capacity (per module): 25,000 to 100,000 lb
- Cost and time efficient installation; no need to remove weighbridge
- Converts existing scale capacities of 40,000 to 300,000 lb
- Four, six or eight-mount kits for two, three or four section conversions
- Translink heavy-capacity mounting assemblies
- Free movement in all directions in the horizontal plane with virtually no friction
- Completely self-centering
- Requires no check rods
- Compatible with VPG® Sensortronics® 65040A or VPG® Revere 5223 load cells

Applications

- Updating existing mechanical motor truck scales
- Replacing unsatisfactory electronic motor truck scales
- Conversion of heavy-capacity scales into fully electronic vehicle scales where the existing scale cannot be removed



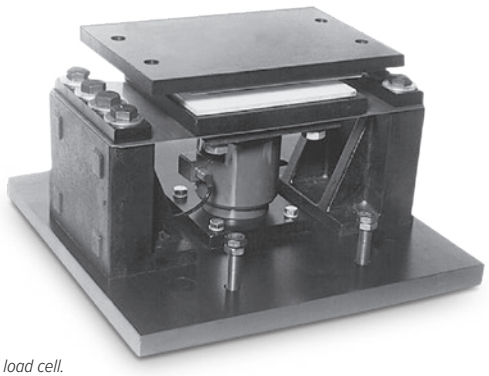




MagnaMount™

Mount Assembly

Limited Stock Available



Mount only; does not include load cell.
Picture is a representation of actual product.

Standard Features

- Capacities (per module): 50,000 lb, 100,000 lb and 200,000 lb
- Protects load cell from shock and side loads
- Low-profile design
- High-capacity and rugged load-bearing plate made of high-grade carbon steel hardened to Rockwell C 48-54
- PTFE coated shock-absorbing pads
- Compatible with VPG® Revere CP and CSP, and Rice Lake RLCSP1 NTEP Certified load cells

Applications

- Truck scale mount*
- Heavy-capacity horizontal tanks*
- Railroad track mount*

**Check rods required*

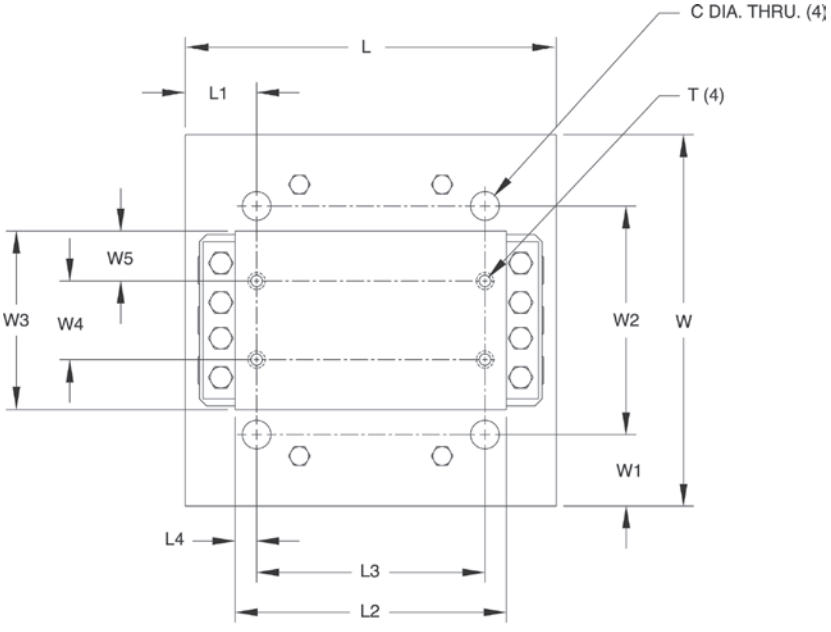
Order Information

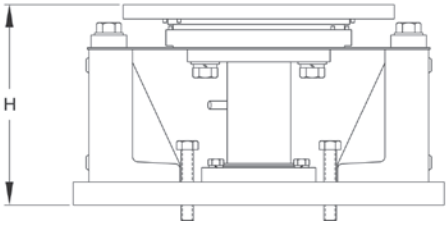
Load Rating (Per Module)	Part #	Price
50,000 lb	**21723**	Consult
100,000 lb	**21724**	Consult
200,000 lb	**17974**	Consult

Mount only; does not include load cell

Dimensions

Rated Capacity	C	H	L	L1	L2	L3	L4	T	W	W1	W2	W3	W4	W5
lb/in														
50,000	1.25	7.39	13.00	1.75	11.25	8.50	1.37	3/4-10 UNC	12.00	1.75	8.50	8.00	4.50	1.75
100,000	1.50	11.29	20.00	2.25	18.00	15.50	1.25	7/8-9 UNC	17.00	2.50	12.00	9.00	5.50	1.75
200,000	2.00	14.10	26.00	5.00	19.00	16.00	1.50	1-8 UNC	26.00	5.00	16.00	12.50	5.50	3.50





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Mettler Toledo® DigiTOL® Retrofit Kit

Stainless Steel, Rice Lake Weighing Systems/Flintec

RC1 Load Cells



Shown here with the JB8SP signal trim junction box.
Picture is a representation of actual product.

Load Cell Approvals

NTEP FM APPROVED

Complete Kit Includes

- Eight, ten or twelve Flintec® NTEP Certified stainless steel, hermetically sealed rocker column load cells
- Upper and lower cups
- NEMA Type 4X signal trim junction boxes with transient protection
- 100 ft of hostile environment EL147HE SURVIVOR® load cell cable
- Grounding straps (JB8SPT kits only)

Standard Features

- Load cells are NTEP Certified 1:10,000 divisions, Class IIIL*
- Converts existing Mettler Toledo DigiTOL scale to an analog-based load cell weighing system
- One-year limited warranty

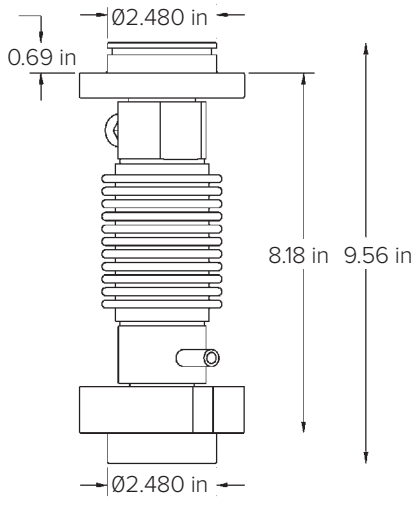
**Consult your local Weights & Measures Authorities for local Legal for Trade requirements*

Applications

- Mettler Toledo DigiTOL truck scale conversion

DigiTOL Retrofit Order information

Description	Part #	Price
8 mount kit, RC1-25 t (250kN) load cells, JB8SP junction box	**78713**	Consult
8 mount kit, RC1-25 t (250 kN) load cells, JB8SPT junction box	**224897**	Consult
10 mount kit, RC1-25 t (250 kN) load cells, two JB8SP junction boxes	**78714**	Consult
10 mount kit RC1-25 t (250 kN) load cells, two JB8SPT junction boxes	**224898**	Consult
12 mount kit, RC1-25 t (250kN) load cells, three JB8SP junction boxes	**152774**	Consult
12 mount kit RC1-25 t (250 kN) load cells, two JB8SPT junction boxes	**224899**	Consult



RC1-25 t

Mettler Toledo® DigiTOL® Retrofit Kit

Stainless Steel, Rice Lake Weighing Systems/Flintec

RC3 Load Cells



Shown here with the JB8SP signal trim junction box
Picture is a representation of actual product

Load Cell Approvals

NTEP FM APPROVED

Complete Kit Includes

- Eight, ten or twelve Flintec® NTEP Certified stainless steel, hermetically sealed rocker column load cells
- Upper and lower cups
- NEMA Type 4X signal trim junction boxes with transient protection
- 100 ft of hostile environment EL147HE SURVIVOR® load cell cable
- Grounding straps (JB8SPT kits only)

Standard Features

- Load cells are NTEP Certified 1:10,000 divisions, Class IIIL*
- Converts existing Mettler Toledo DigiTOL scale to an analog-based load cell weighing system
- One-year limited warranty

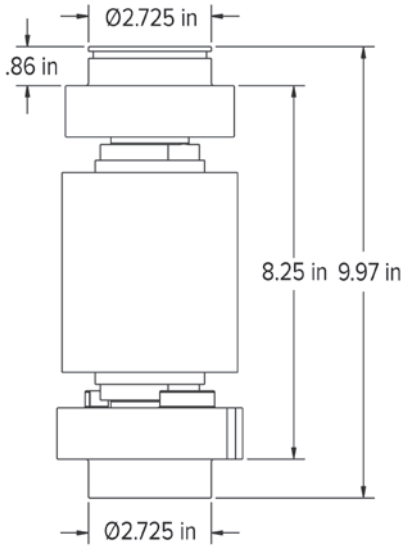
**Consult your local Weights & Measures Authorities for local Legal for Trade requirements*

Applications

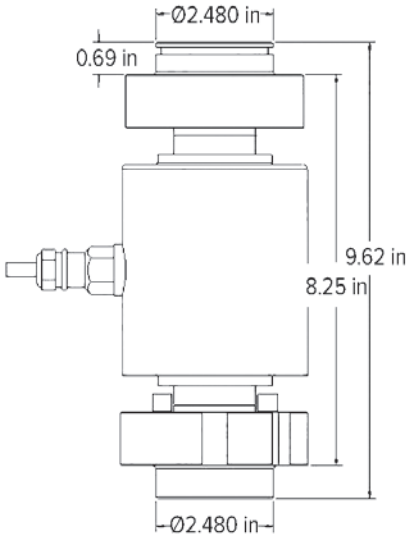
- Mettler Toledo DigiTOL truck scale conversion

DigiTOL Retrofit Order information

Description	Part #	Price
8 mount kit RC3-50 t load cells, two EL304A junction boxes (truck/track combo)	**129844**	Consult
8 mount kit RC3-50 t load cells, two EL304A junction boxes (truck only)	**154347**	Consult
8 mount kit RC3-50 t load cells, one JB8SPT junction boxes (truck/track combo)	**224900**	Consult
8 mount kit RC3-50 t load cells, one JB8SPT junction boxes (truck only)	**224901**	Consult
10 mount kit RC3-50 t load cells, two JB8SP junction boxes (truck/track combo)	**111367**	Consult
10 mount kit RC3-50 t load cells, three EL304A junction boxes (truck only)	**154348**	Consult
10 mount kit RC3-50 t load cells, two JB8SPT junction boxes (truck/track combo)	**224902**	Consult
10 mount kit RC3-50 t load cells, two JB8SPT junction boxes (truck only)	**224903**	Consult
12 mount kit RC3-50 t load cells, three EL304A junction boxes (truck only)	**154349**	Consult
12 mount kit RC3-50 t load cells, two JB8SPT junction boxes (truck only)	**224904**	Consult



RC3-50 t
TRACK



RC3-50 t
TRUCK

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Rice Lake Analog Retrofit Kit

Stainless Steel, Analog Load Cells for Mettler Toledo PDX Digital Conversion to Analog

NEW

RL82025-50t Load Cells



Picture is a representation of actual product.

Load Cell Approvals





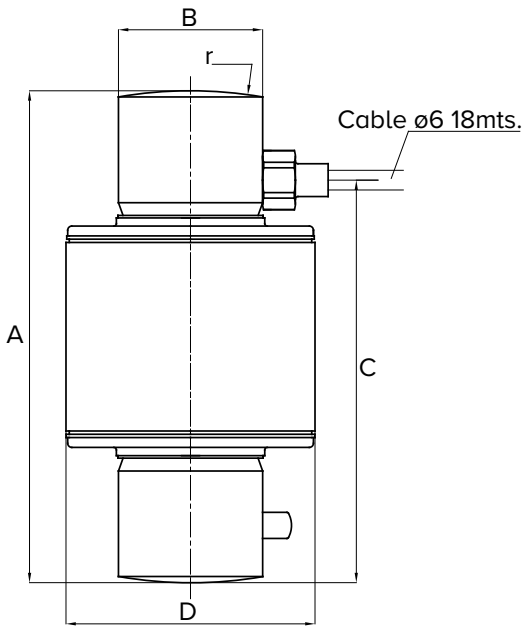
Load Cups

Digital Retrofit Order information

Description	Part #	Price
8 mount kit RL82025-50 t load cells, two JBSPT junction boxes	**227964**	Consult
10 mount kit RL82025-50 t load cells, three JBSPT junction boxes	**227965**	Consult

Dimensions

Rated Capacity	A	ø B	C	D	r
t/mm Analog Load Cells					
15	150.0	44.0	123.0	76.0	130.0
20	150.0	44.0	123.0	76.0	130.0
25	150.0	44.0	123.0	76.0	150.0
30	150.0	44.0	123.0	76.0	160.0
40	150.0	44.0	123.0	76.0	180.0
50	150.0	44.0	123.0	76.0	180.0



Complete Kit Includes

- Eight or ten Rice Lake NTEP Certified stainless steel, hermetically sealed, rocker column load cells
- Upper and lower cups
- Grounding straps
- NEMA Type 4X signal trim junction boxes with transient protection
- 100 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Load cells are NTEP Certified 1:10,000 divisions, Class IIIL*
- Converts Mettler Toldeo PDX digital scales to analog
- Load cells have built-in surge protection and rated to IP69K
- Stainless steel overbraid cable
- Two-year limited warranty

**Consult your local Weights & Measures Authorities for local Legal for Trade requirements*

Applications

- Mettler Toldeo PDX digital truck scale conversion

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Rice Lake Analog Retrofit Kit

Stainless Steel, Analog Load Cells for B-Tek Digital Conversion to Analog

RL82021-40t Load Cells



Shown here with the EL304A signal trim junction box. Picture is a representation of actual product.



Load Cups

Load Cell Approvals

Complete Kit Includes

- Eight or ten Rice Lake NTEP Certified stainless steel, hermetically sealed, rocker column load cells
- Upper and lower cups
- Grounding straps
- NEMA Type 4X signal trim junction boxes
- 100 ft of hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Load cells are NTEP Certified 1:10,000 divisions, Class IIIL*
- Converts B-TEK digital CPD-M scales to analog
- Load cells have built-in surge protection and rated to IP69K
- Stainless steel overbraid cable
- Two-year limited warranty

**Consult your local Weights & Measures Authorities for local Legal for Trade requirements*

Applications

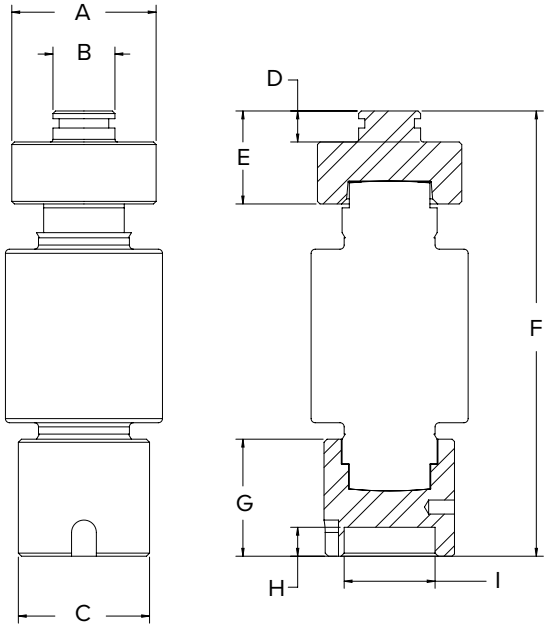
- B-TEK digital truck scale conversion

Digital Retrofit Order information

Description	Part #	Price
8 mount kit RL82021-40 t load cells, two EL304A junction boxes	**216423**	Consult
10 mount kit RL82021-40 t load cells, three EL304A junction boxes	**216424**	Consult

Dimensions

Analog Load Cells	
A	Ø2.75 in (70 mm)
B	Ø1.18 in (30 mm)
C	Ø2.50 in (64 mm)
D	0.59 in (15 mm)
E	1.77 in (45 mm)
F	8.48 in (215 mm)
G	2.23 in (57 mm)
H	0.55 in (14 mm)
I	Ø1.73 in (44 mm)



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Electronic Floor Scale Underdeck Kits





Underdeck kits are provided to meet the application needs of the electronic floor scale producer and are an easy source for rebuilding existing floor scales. Underdeck kits are provided with mounting plates and load cell bolts for easy installation.

Economical Kit

Kit Includes
(4) VPG® Celtron SQB alloy steel NTEP Certified 5,000 d, Class III load cells
(1) JB4SS stainless steel NEMA Type 4X junction box
(4) SureFoot® high-accuracy stainless steel support feet
20 ft EL147HE load cell cable
(4) mounting plates and (8) load cell bolts

Order Information

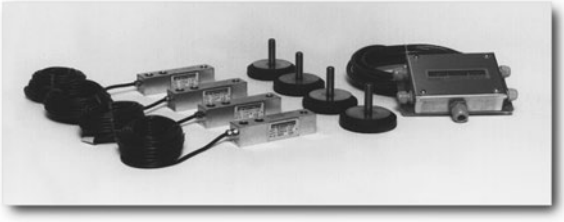
Scale Base Capacity	Part #	Price
1,000 lb for 2,000 lb base	**26436**	Consult
2,500 lb for 5,000 lb base	**26437**	Consult
4,000 lb for 10,000 lb base	**26438**	Consult

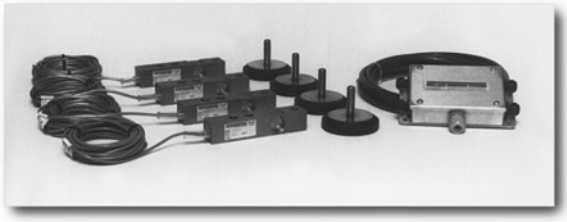
Chemical, Dry Corrosive & Non-Washdown Applications Kit

Kit Includes
(4) VPG® Celtron SQB-HSS stainless steel NTEP Certified 5,000 d, Class III load cells
(1) JB4SS stainless steel NEMA Type 4X junction box
(4) SureFoot® high-accuracy stainless steel support feet
20 ft EL147HE load cell cable
(4) mounting plates and (8) load cell bolts

Order Information

Scale Base Capacity	Part #	Price
1,000 lb for 2,000 lb base	**19035**	Consult
2,500 lb for 5,000 lb base	**19036**	Consult
4,000 lb for 10,000 lb base	**19037**	Consult





Standard Precision Applications Kit

Kit Includes
(4) Rice Lake RL32018 alloy steel NTEP Certified 5,000 d, Class III load cells
(1) JB4SS stainless steel NEMA Type 4X junction box
(4) SureFoot high-accuracy stainless steel support feet
20 ft EL147HE load cell cable
(4) mounting plates and (8) load cell bolts

NOTES: The use of NTEP Certified load cells in a scale base does not constitute approval of the completed base. Consult with local or state jurisdiction for compliance requirements.

Order Information

Scale Base Capacity	Part #	Price
1,000 lb for 2,000 lb base	**19032**	Consult
2,500 lb for 5,000 lb base	**19033**	Consult
4,000 lb for 10,000 lb base	**19034**	Consult

Wet Applications Kit

Kit Includes
(4) Rice Lake RL32018S-HE welded-seal stainless steel NTEP Certified 5,000 d, Class III load cells
(1) JB4SS stainless steel NEMA Type 4X junction box
(4) SureFoot® high-accuracy stainless steel support feet
20 ft EL147HE load cell cable
(4) mounting plates and (8) load cell bolts

Order Information

Scale Base Capacity	Part #	Price
1,000 lb for 2,000 lb base	**19038**	Consult
2,500 lb for 5,000 lb base	**19039**	Consult
4,000 lb for 10,000 lb base	**19040**	Consult

S-BEAM

RL20000I

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 III/1:10,000 IIIL, IP67



Picture is a representation of actual product.

Approvals

NTEP, FM c US APPROVED

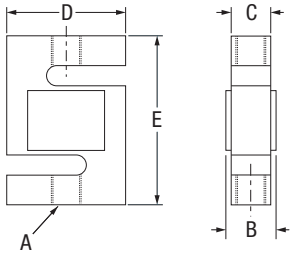
Order Information

Load Rating	Part #	Est. Weight	Price
25 lb	**21428**	2 lb	Consult
50 lb	**21429**	2 lb	Consult
75 lb	**21430**	2lb	Consult
100 lb	**21431**	2 lb	Consult
150 lb	**21432**	2 lb	Consult
200 lb	**21433**	2 lb	Consult
250 lb	**21434**	2 lb	Consult
300 lb	**21435**	2 lb	Consult
500 lb	**21436**	2 lb	Consult
750 lb	**21437**	2 lb	Consult
1,000 lb	**21438**	2 lb	Consult
1,500 lb	**21439**	2 lb	Consult
2,000 lb***	**21356**	2 lb	Consult
2,000 lb	**21440**	2 lb	Consult
2,500 lb	**21441**	2 lb	Consult
3,000 lb	**21442**	4 lb	Consult
5,000 lb***	**17044**	4 lb	Consult
5,000 lb	**21443**	4 lb	Consult
10,000 lb	**21444**	4 lb	Consult
15,000 lb	**21445**	7 lb	Consult
20,000 lb***	**17045**	17 lb	Consult
20,000 lb	**21446**	17 lb	Consult
Conduit Adapter Kit* (must be factory installed to maintain warranty)			
3/8-24 nipple	**31533***	1 lb	Consult
3/8-24 to 1/4-18 NPT	**31534***	1 lb	Consult
Replacement Agriculture Scale Load Cell - 40 ft Cable			
10,000 lb	**151746**	5 lb	Consult

**PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*
****These load cells have 30ft or 35ft of cable and trimmed outputs and are used in many batch plants*

Dimensions

Rated Capacity	A	B	C	D	E
lb/in					
25 to 300	1/4-28 UNF	0.75	0.50	2.00	2.50
500 to 1,500	1/2-20 UNF	1.00	0.75	2.00	2.50
2,000 to 2,500	1/2-20 UNF	1.25	1.00	2.00	2.50
3,000	1/2-20 UNF	1.25	1.00	3.00	4.00
5,000 to 10,000	3/4-16 UNF	1.25	1.22	3.00	4.00
15,000	1-12 UNF	1.50	1.25	4.00	5.50
20,000	1 1/4-12 UNF	2.25	2.00	5.00	7.00



Interchangeable Products

ARTECH®
20210 (1-14 UNF) *(15,000 lb thread is 1-12 UNF for Rice Lake model)*

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
ITCM Isolated Tension Cell Mount

Specifications

Full Scale Output:
3.0 mV/V
Output Resistance:
350 (± 3) ohm
Input Resistance:
385 (± 5) ohm
Material/Finish:
High-alloy steel, nickel plated
Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)
Seal Type:
Environmentally sealed, IP67
Safe Overload:
150% full scale
Rated Excitation:
5 to 10 VDC (15 V maximum)
Combined Error:
0.02% full scale
Insulation Resistance:
5,000 megohm
Cable Length:
20 ft
30 ft (pn 17044 and 17045)
35 ft (pn 21356)
Cable Diameter:
0.200 in
Polyurethane jacket
Cable Color Code:
Red +Excitation
Black -Excitation
Green +Signal
White -Signal
Warranty:
Two-year limited
Approvals:
NTEP 90-158
cFMus

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RL20000SS

Stainless Steel, Environmentally Sealed, NTEP Certified 1:10,000 Class IIIL Single Cell, IP67



Picture is a representation of actual product.

Approvals

Interchangeable Products

VPG® REVERE
9363

ARTECH®
20210

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
ITCM Isolated Tension Cell Mount

Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
100 lb	**46511**	2 lb	Consult
250 lb	**46503**	2 lb	Consult
300 lb	**181826**	2 lb	Consult
500 lb	**46504**	2 lb	Consult
750 lb	**46505**	2 lb	Consult
1,000 lb	**46506**	2 lb	Consult
2,500 lb	**46507**	2 lb	Consult
3,000 lb	**46508**	4 lb	Consult
5,000 lb	**46509**	4 lb	Consult
10,000 lb	**46510**	4 lb	Consult
Non-NTEP Certified			
50 lb	**17013**	2 lb	Consult
15,000 lb	**158375**	7 lb	Consult
20,000 lb	**158376**	13 lb	Consult
Conduit Adapter Kit* (must be factory installed to maintain warranty)			
3/8-24 nipple	**31533***	1 lb	Consult
3/8-24 to 1/4-18 NPT	**31534***	1 lb	Consult

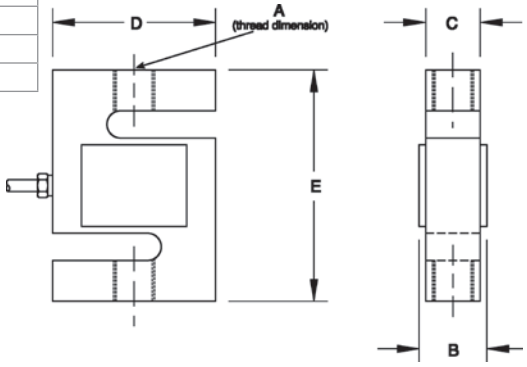
** PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*

Dimensions

Rated Capacity	A	B	C	D	E
lb/in					
50 to 300	1/4-28 UNF	0.65	0.46	2.00	2.40
500 to 1,000	1/2-20 UNF	0.90	0.71	2.00	2.40
2,500	1/2-20 UNF	1.15	0.96	2.00	2.40
3,000	1/2-20 UNF	1.15	0.96	3.00	3.90
5,000	3/4-16 UNF	1.15	0.96	3.00	3.90
10,000	3/4-16 UNF	1.40	1.21	3.00	3.90
15,000	1-14 UNS	1.63	1.46	3.44	5.50
20,000	1 1/4-12 UNF	1.88	1.68	4.44	7.00

Specifications

Full Scale Output:
3.0 (± 0.008) mV/V
Output Resistance:
350 (± 3.5) ohm
Input Resistance:
390 (± 15) ohm
Material/Finish:
Stainless steel
Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)
Seal Type:
Environmentally sealed, IP67
Safe Overload:
150% full scale
Rated Excitation:
5 to 10 VDC (15 V maximum)
Combined Error:
0.03% full scale
Insulation Resistance:
5,000 megohm
Cable Length:
20 ft
Cable Color Code:
Red +Excitation
Black -Excitation
Green +Signal
White -Signal
Warranty:
Two-year limited
Approvals:
NTEP 98-078
cFMus



S-BEAM

RL20000ST

Stainless Steel, Environmentally Sealed, NTEP Certified 1:10,000 Class IIIL Single Cell, IP67



Picture is a representation of actual product.

Approvals

NTEP FM APPROVED

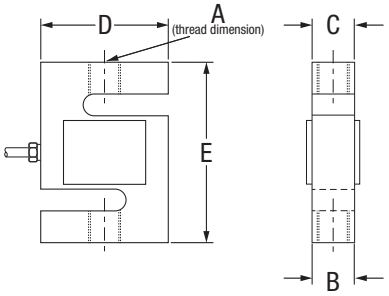
Order Information

Load Rating	Part #	Est. Weight	Price
50 lb	**72741**	2 lb	Consult
100 lb	**72742**	2 lb	Consult
200 lb	**72743**	2 lb	Consult
250 lb	**72744**	2 lb	Consult
300 lb	**72745**	2 lb	Consult
500 lb	**72746**	2 lb	Consult
750 lb	**72747**	2 lb	Consult
1,000 lb	**72748**	2 lb	Consult
1,500 lb	**72749**	2 lb	Consult
2,000 lb	**72750**	2 lb	Consult
2,500 lb	**72751**	2 lb	Consult
3,000 lb	**72752**	4 lb	Consult
5,000 lb	**72753**	4 lb	Consult
Conduit Adapter Kit* (must be factory installed to maintain warranty)			
3/8-24 nipple	**31533***	1 lb	Consult
3/8-24 to 1/4-18 NPT	**31534***	1 lb	Consult

**PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit.*

Dimensions

Rated Capacity	A	B	C	D	E
lb/in					
50 to 300	1/4-28 UNF	0.65	0.46	2.00	2.40
500 to 1,000	1/2-20 UNF	0.90	0.71	2.00	2.40
1,500 to 2,500	1/2-20 UNF	1.15	0.96	2.00	2.40
3,000	1/2-20 UNF	1.15	0.96	3.00	3.90
5,000	3/4-16 UNF	1.15	0.96	3.00	3.90



Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
350 (± 3.5) ohm

Input Resistance:
430 (± 60) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.03% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
20 ft

Cable Diameter:
0.190 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black -Excitation
Green +Signal
White -Signal

Warranty:
Two-year limited

Approvals:
NTEP 03-007
FM

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RL20001I

Alloy Steel, Environmentally Sealed, NTEP Certified Single Cell 1:5,000 III/1:10,000 IIIL, IP67



Picture is a representation of actual product.

Approvals

NTEP FM APPROVED

Interchangeable Products

VPG® CELTRON®
STC

VPG® SENSORTRONICS®
60001

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
ITCM Isolated Tension Cell Mount

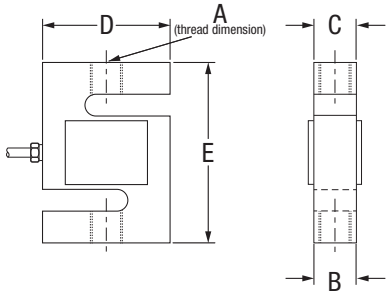
Order Information

Load Rating	Part #	Est. Weight	Price
250 lb	**21402**	2 lb	Consult
500 lb	**21403**	2 lb	Consult
750 lb	**21404**	2 lb	Consult
1,000 lb	**21405**	2 lb	Consult
1,500 lb	**21406**	2 lb	Consult
2,000 lb	**21407**	3 lb	Consult
2,500 lb	**21408**	4 lb	Consult
3,000 lb	**21409**	3 lb	Consult
5,000 lb	**21410**	4 lb	Consult
10,000 lb	**21411**	5 lb	Consult
15,000 lb	**21412**	7 lb	Consult
20,000 lb	**21413**	16 lb	Consult
Conduit Adapter Kit* (must be factory installed to maintain warranty)			
3/8-24 nipple	**31533***	1 lb	Consult
3/8-24 to 1/4-18 NPT	**31534***	1 lb	Consult

**PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*

Dimensions

Rated Capacity	A	B	C	D	E
lb/in					
250	3/8-24 UNF	0.75	0.50	2.00	3.00
500 to 2,000	1/2-20 UNF	1.00	0.75	2.00	3.00
2,500 to 3,000	1/2-20 UNF	1.25	1.00	2.00	3.00
5,000	3/4-16 UNF	1.25	1.00	3.00	4.25
10,000	3/4-16 UNF	1.25	1.00	3.50	4.75
15,000	1-14 UNS	1.50	1.25	4.00	5.50
20,000	1 1/4-12 UNF	2.25	2.00	5.00	7.00



Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
385 (± 5) ohm

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VAC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
20 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 91-046
cFMus

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S-BEAM

RL20001HE

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 Class III/1:10,000 Class IIIL Single Cell, IP68



Picture is a representation of actual product.

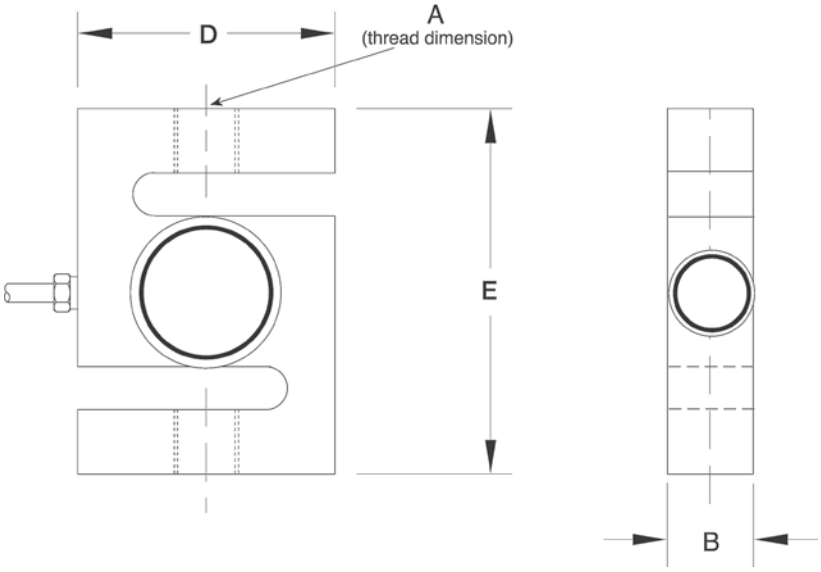
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
500 lb	**46469**	2 lb	Consult
750 lb	**46470**	2 lb	Consult
1,000 lb	**46471**	2 lb	Consult
1,500 lb	**46472**	2 lb	Consult
2,000 lb	**46473**	2 lb	Consult
2,500 lb	**46474**	2 lb	Consult
3,000 lb	**46475**	2 lb	Consult
5,000 lb	**46476**	5 lb	Consult
Non-NTEP Certified			
10,000 lb	**36292**	5 lb	Consult

Dimensions

Rated Capacity	A	B	D	E
lb/in				
500 to 3,000	1/2-20 UNF	1.00	2.00	3.00
5,000 to 10,000	3/4-16 UNF	1.00	3.50	4.75



Interchangeable Products

VPG® SENSORTRONICS®

60063

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS

ITCM HE Isolated Tension Cell Mount

Specifications

Full Scale Output:
2.0 mV/V

Bridge Resistance:
350 ohm, nominal

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Welded-seal, IP68

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
20 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 98-071
cFMus

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Picture is a representation of actual product.

Approvals

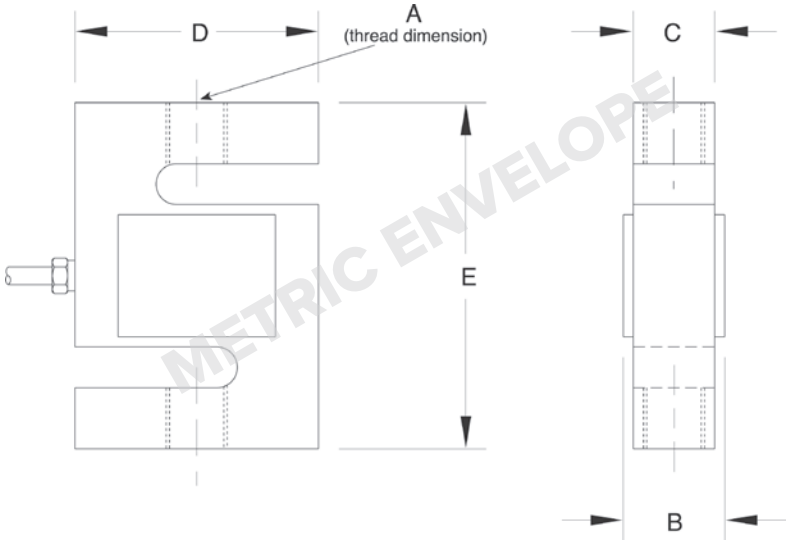
OIML FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
250 kg	**31254**	2 lb	Consult
500 kg	**31255**	2 lb	Consult
1,000 kg	**31256**	2 lb	Consult
2,500 kg	**31257**	3 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E
kg/mm					
250 to 1,000	M12 × 1.75-6H	25.4	19.1	50.8	76.0
2,500	M20 × 1.5-6H	31.8	25.4	76.2	108.0



Specifications

Full Scale Output:
3.0 mV/V ± 0.25%

Bridge Resistance:
350 ohm, nominal

Material/Finish:
Alloy steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VAC/DC (15V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
6 m

Cable Diameter:
5 mm
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
OIML R60/1991-GB-95-09
cFMus

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SINGLE-ENDED BEAM

RL32022

Alloy Steel, Environmentally Sealed, OIML C3, IP67



Picture is a representation of actual product.

Approvals

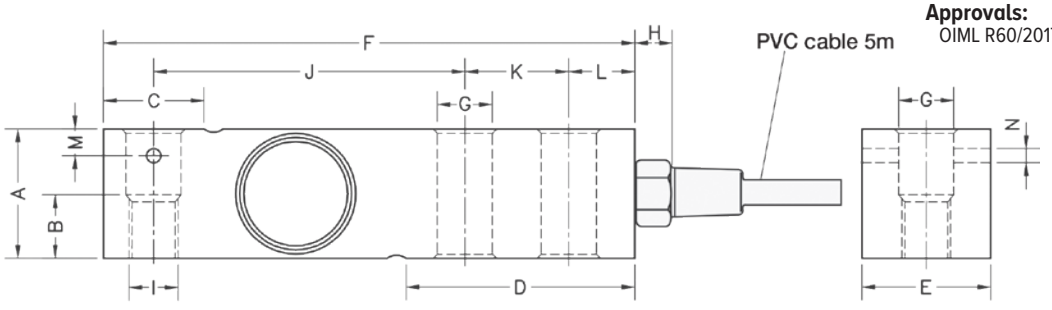
OIML

Order Information

Load Rating	Part #	Est. Weight	Price
300 kg	**211630**	0.9 kg	Consult
500 kg	**211631**	0.9 kg	Consult
750 kg	**211632**	0.9 kg	Consult
1,000 kg	**211633**	0.9 kg	Consult
1,500 kg	**211634**	0.9 kg	Consult
2,000 kg	**211635**	0.9 kg	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
kg/mm														
300 to 2,000	31.5	15.0	34.6	56.0	31.5	130.0	13.5	18.0	M12	76.2	25.4	15.8	6.5	3.5



Specifications

Full Scale Output:
2.0 mV/V ± 0.05%
mV/V/ohm calibration

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Alloy steel, nickel plated

Temperature:
Compensated:
-14 °F to 104 °F (-10 ° C to 40 ° C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
10 VDC (15 V maximum)

Combined Error:
0.017% full scale

Insulation Resistance:
> 5,000 megohm

Deflection at Capacity:
0.2 to 0.4 mm

Cable Length:
5 m

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
OIML R60/2017-A-NL1-22.11

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RL32022-S

Stainless Steel, Hermetically Sealed, OIML C3, IP69K



Picture is a representation of actual product.

Approvals

OIML

Order Information

Load Rating	Part #	Est. Weight	Price
300 kg	**211636**	0.9 kg	Consult
500 kg	**211637**	0.9 kg	Consult
750 kg	**211638**	0.9 kg	Consult
1,000 kg	**211639**	0.9 kg	Consult
1,500 kg	**211640**	0.9 kg	Consult
2,000 kg	**211641**	0.9 kg	Consult
3,000 kg	**211642**	2.2 kg	Consult
5,000 kg	**211643**	2.2kg	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
kg/mm														
300 to 2,000	31.5	15.0	34.6	56.0	31.5	130.0	13.5	18.0	M12	76.2	25.4	15.8	6.5	3.5
3,000 to 5,000	48.0	-	37.0	76.0	41.5	171.5	20.5	18.0	-	95.2	38.1	19.0	-	-

Specifications

Full Scale Output:
2.0 mV/V ± 0.05%
mV/V/ohm calibration

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
-14 °F to 104 °F (-10 ° C to 40 ° C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
10 VDC (15 V maximum)

Combined Error:
0.017% full scale

Insulation Resistance:
> 5,000 megohm

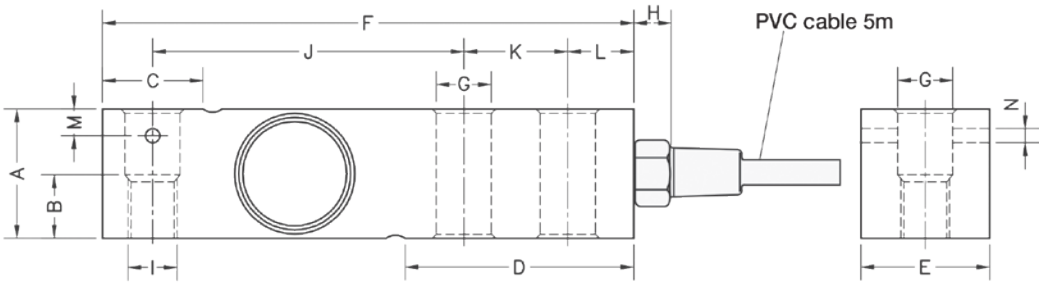
Deflection at Capacity:
0.2 to 0.4 mm

Cable Length:
5 m

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
OIML R60/2017-A-NL1-22.11



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SINGLE-ENDED BEAM

RL32018

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP66



Picture is a representation of actual product.

Approvals

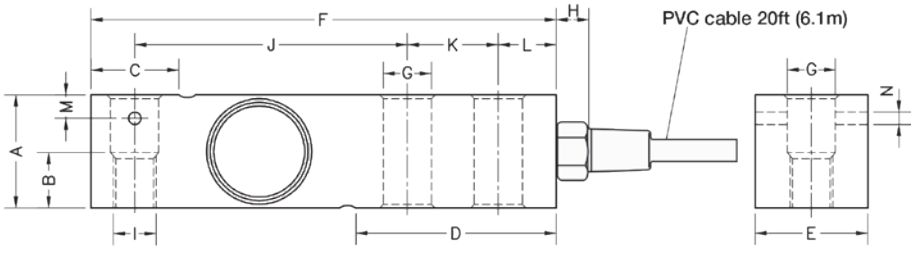
Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
500 lb*	**189151**	2 lb	Consult
1,000 lb	**189152**	2 lb	Consult
1,500 lb	**191732**	2 lb	Consult
2,000 lb	**189153**	2 lb	Consult
2,500 lb	**189154**	2 lb	Consult
3,000 lb	**189155**	5 lb	Consult
4,000 lb	**189156**	5 lb	Consult
5,000 lb SE	**189157**	5 lb	Consult
5,000 lb LE	**189158**	5 lb	Consult
10,000 lb	**189159**	5 lb	Consult
Non-NTEP Certified			
250 lb	**189150**	2 lb	Consult
15,000 lb	**189160**	10 lb	Consult
20,000 lb	**189161**	10 lb	Consult
With Overbraid Cable			
2,500 lb	**209166**	10 lb	Consult
20,000 lb*	**197558**	10 lb	Consult

SE=small envelope; LE=large envelope
** Pending NTEP*

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
lb/in														
250 to 500	1.00	0.59	0.96	2.20	1.24	5.12	0.53	0.70	1/2-20 UNF	3.00	1.00	0.62	0.25	0.13
1,000 to 5,000 SE	1.24	0.59	0.96	2.20	1.24	5.12	0.53	0.70	1/2-20 UNF	3.00	1.00	0.62	0.25	0.13
5,000 LE to 10,000	1.50	0.75	1.45	2.99	1.50	6.75	0.80	0.70	3/4-16 UNF	3.75	1.50	0.75	-	-
15,000 to 20,000	2.00	-	-	4.00	2.00	8.75	1.06	-	1-14 UNS	4.90	2.00	1.00	-	-



Interchangeable Products

VPG® SENSORTRONICS®
65023A

VPG® CELTRON®
SQB

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL50210TA

RICE LAKE WEIGHING SYSTEMS
RL1800 Series

Specifications

Full Scale Output:
3.0 mV/V ± 0.05%
mV/V/ohm calibration

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Alloy steel, nickel plated

Temperature:
Compensated:
-14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP66

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
10 VDC (15 V maximum)

Combined Error:
0.017% full scale

Insulation Resistance:
> 5,000 megohm

Deflection at Capacity:
0.2 to 0.4 mm

Cable Length:
20 ft

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 18-106
cFMus FM18US0307X

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RL32018 MLC Coated

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP66



Picture is a representation of actual product.

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL50210TA

RICE LAKE WEIGHING SYSTEMS
RL1800 Series

Approvals

NTEP FM APPROVED

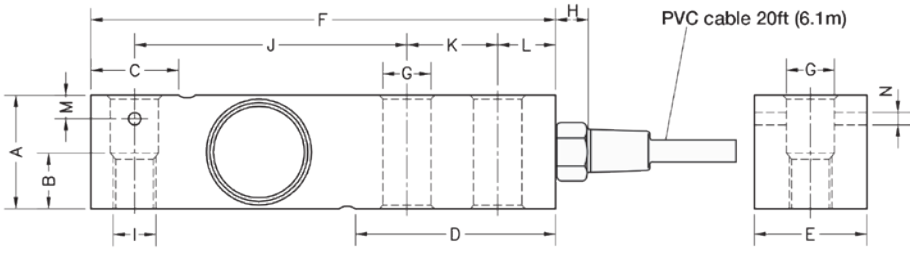
Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
1,000 lb	**207842**	2 lb	Consult
1,500 lb	**207843**	2 lb	Consult
2,000 lb	**207844**	2 lb	Consult
2,500 lb	**207845**	2 lb	Consult
3,000 lb	**207846**	5 lb	Consult
4,000 lb	**207847**	5 lb	Consult
5,000 lb SE	**207848**	5 lb	Consult
5,000 lb LE	**207850**	5 lb	Consult
10,000 lb	**207851**	5 lb	Consult
Non-NTEP Certified			
15,000 lb	**207852**	10 lb	Consult
20,000 lb	**207853**	10 lb	Consult

SE=small envelope; LE=large envelope

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
lb/in														
1,000 to 5,000 SE	1.24	0.59	0.96	2.20	1.24	5.12	0.53	0.70	1/2-20 UNF	3.00	1.00	0.62	0.25	0.13
5,000 LE to 10,000	1.50	-	1.45	2.99	1.50	6.75	0.80	0.70	3/4-16 UNF	3.75	1.50	0.75	-	-
15,000 to 20,000	2.00	-	-	4.00	2.00	8.75	1.06	-	1-14 UNS	4.90	2.00	1.00	-	-



Specifications

Full Scale Output:
3.0 mV/V ± 0.05%
mV/V/ohm calibration

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Alloy steel, nickel plated, coated

Temperature:
Compensated:
-14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP66

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
10 VDC (15 V maximum)

Combined Error:
0.017% full scale

Insulation Resistance:
> 5,000 megohm

Deflection at Capacity:
0.2 to 0.4 mm

Cable Length:
20 ft

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 18-106
cFMus

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SINGLE-ENDED BEAM

RL32018S

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP66



Picture is a representation of actual product.

Approvals

NTEP, FM APPROVED

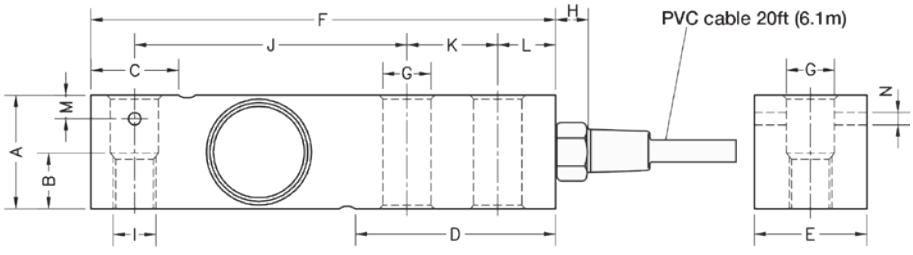
Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
500 lb*	**189163**	3 lb	Consult
1,000 lb	**189164**	3 lb	Consult
2,000 lb	**189165**	3 lb	Consult
2,500 lb	**189166**	3 lb	Consult
4,000 lb	**189167**	3 lb	Consult
5,000 lb SE	**189168**	3 lb	Consult
5,000 lb LE	**189169**	5 lb	Consult
10,000 lb	**189170**	5 lb	Consult
Non-NTEP Certified			
250 lb	**189162**	3 lb	Consult
15,000 lb	**189171**	10 lb	Consult
20,000 lb	**189172**	10 lb	Consult

SE=small envelope; LE=large envelope
**Pending NTEP*

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
lb/in														
250 to 500	1.00	0.59	0.96	2.20	1.24	5.12	0.53	0.70	1/2-20 UNF	3.00	1.00	0.62	0.25	0.13
1,000 to 5,000 SE	1.24	0.59	0.96	2.20	1.24	5.12	0.53	0.70	1/2-20 UNF	3.00	1.00	0.62	0.25	0.13
5,000 LE to 10,000	1.50	-	1.45	2.99	1.50	6.75	0.80	0.70	3/4-16 UNF	3.75	1.50	0.75	-	-
15,000 to 20,000	2.00	-	-	4.00	2.00	8.75	1.06	-	1-14 UNS	4.90	2.00	1.00	-	-



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL35023S

VPG® SENSORTRONICS®
65023S

VPG SENSORTRONICS
65023SS

VPG® CELTRON®
SQB-HSS

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL50210TA

RICE LAKE WEIGHING SYSTEMS
RL1800 Series

Specifications

Full Scale Output:
3.0 mV/V ± 0.05%
mV/V/ohm calibration

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating range
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP66

Safe Overload:
150% full scale

Rated Excitation:
10 VDC (15 V maximum)

Combined Error:
0.017% full scale

Insulation Resistance:
> 5,000 megohm

Deflection at Capacity:
0.2 to 0.4 mm

Cable Length:
20 ft

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 18-106
cFMus

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RL32018S-P

Stainless Steel, Hermetically Sealed, IP69K



Picture is a representation of actual product.

Approvals

FM APPROVED

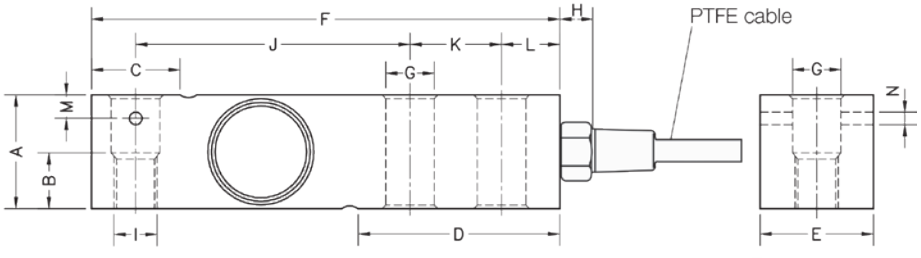
Order Information

Load Rating	Part #	Est. Weight	Price
1,000 lb	**190654**	3 lb	Consult
2,000 lb	**190655**	3 lb	Consult
2,500 lb	**190656**	3 lb	Consult
4,000 lb	**190657**	3 lb	Consult
5,000 lb SE	**190658**	3 lb	$375.00
5,000 lb LE	**190659**	5 lb	Consult
10,000 lb	**190660**	5 lb	Consult

SE=small envelope; LE=large envelope

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
lb/in														
1,000 to 5,000 SE	1.24	0.59	0.96	2.20	1.25	5.12	0.53	0.70	1/2-20 UNF	3.00	1.00	0.62	0.25	0.13
5,000 LE to 10,000	1.50	—	1.45	2.99	1.50	6.75	0.80	0.70	3/4-16 UNF	3.75	1.50	0.75	—	—



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL32018S-HE

VPG® SENSORTRONICS®
65083

VPG® CELTRON®
SQB-HSS

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL1800 Series

Specifications

Full Scale Output:
3.0 mV/V ± 0.05%
mV/V/ohm calibration

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
-14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
10 VDC (15 V maximum)

Combined Error:
0.017% full scale

Insulation Resistance:
> 5,000 megohm

Deflection at Capacity:
0.2 to 0.4 mm

Cable Length:
20 ft PTFE cable

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus

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SINGLE-ENDED BEAM

RL32018S-HE

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP69K



Picture is a representation of actual product.

Approvals

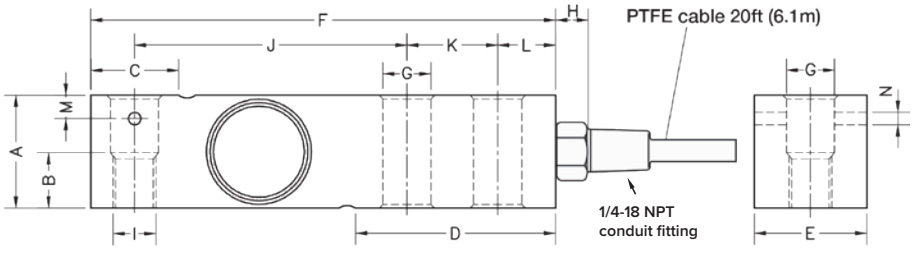
Order Information

Load Rating	Part #	Est. Weight	Price
500 lb	**189175**	3 lb	Consult
1,000 lb	**189176**	3 lb	Consult
2,000 lb	**189178**	3 lb	Consult
2,500 lb	**189179**	3 lb	Consult
4,000 lb	**189181**	3 lb	Consult
5,000 lb SE	**208667**	3 lb	Consult
5,000 lb LE	**189182**	5 lb	Consult
10,000 lb	**189183**	5 lb	Consult

SE=small envelope; LE=large envelope

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
lb/in														
500 to 5,000 SE	1.24	0.59	0.96	2.20	1.24	5.12	0.53	0.70	1/2-20 UNF	3.00	1.00	0.62	0.25	0.13
5,000 to 10,000	1.50	0.75	1.45	2.99	1.50	6.75	0.80	0.70	3/4-16 UNF	3.75	1.50	0.75	-	-



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL32018S-P (non-NTEP)

VPG® SENSORTRONICS®
65083

VPG® CELTRON®
SQB-HSS

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL1800 Series

Specifications

Full Scale Output:
3.0 mV/V ±0.05%
mV/V/ohm calibration

Output Resistance:
350 (±3) ohm

Input Resistance:
400 (±20) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 93 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.017% full scale

Insulation Resistance:
>5,000 megohm

Cable Length:
20 ft PTFE cable

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 18-106
cFMus

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RL32019S-HE

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP69K



Picture is a representation of actual product.

Approvals

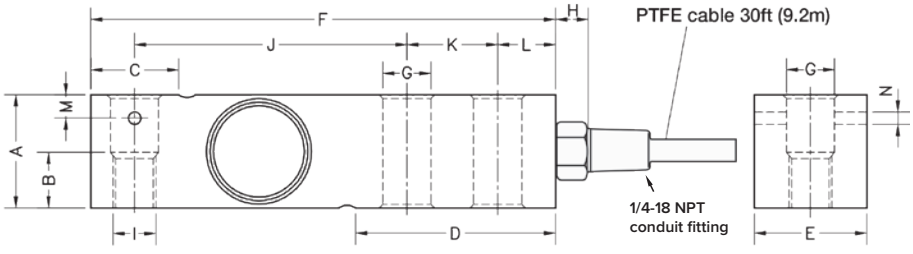
Order Information

Load Rating	Part #	Est. Weight	Price
1,000 lb	**191629**	4 lb	Consult
2,500 lb	**191630**	4 lb	Consult
4,000 lb	**191631**	4 lb	Consult
5,000 lb SE	**208668**	4 lb	Consult
5,000 lb LE	**191632**	6 lb	Consult
10,000 lb	**191633**	6 lb	Consult

SE=small envelope; LE=large envelope

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
lb/in														
1,000 to 5,000 SE	1.24	0.59	0.96	2.20	1.24	5.12	0.53	0.70	1/2-20 UNF	3.00	1.00	0.62	0.25	0.13
5,000 LE to 10,000	1.50	0.75	1.45	2.99	1.50	6.75	0.80	0.70	3/4-16 UNF	3.75	1.50	0.75	—	—



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL35082

VPG® SENSORTRONICS®
65083S (20 ft cable)

Specifications

Full Scale Output:
2.0 mV/V ± 0.05%
mV/V/ohm calibration

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 93 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.017% full scale

Insulation Resistance:
> 5,000 megohm

Deflection at Capacity:
0.2 to 0.4 mm

Cable Length:
30 ft PTFE cable

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 18-106
cFMus

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SINGLE-ENDED BEAM

RL32218S-HE

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP69K



Picture is a representation of actual product.

Approvals

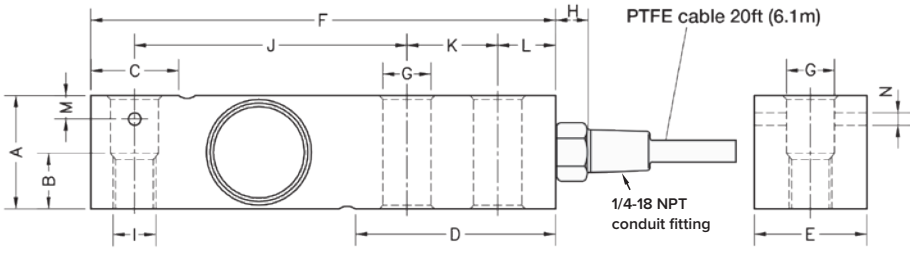
Order Information

Load Rating	Part #	Est. Weight	Price
RL32218S-HE PTFE Cable			
1,000 lb	**191634**	3 lb	Consult
2,500 lb	**191635**	3 lb	Consult
4,000 lb	**191636**	3 lb	Consult
5,000 lb SE	**208669**	3 lb	Consult
5,000 lb LE	**191637**	5 lb	Consult
10,000 lb	**191638**	5 lb	Consult
RL32218S-HE Rodent Protection Cable			
1,000 lb	**223599**	3 lb	Consult
2,500 lb	**209620**	3 lb	Consult
4,000 lb	**223600**	3 lb	Consult
5,000 lb LE	**223601**	5 lb	Consult
10,000 lb	**222973**	5 lb	Consult

SE=small envelope; LE=large envelope

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
lb/in														
1,000 to 5,000 SE	1.24	0.59	0.96	2.20	1.24	5.12	0.53	0.70	1/2-20 UNF	3.00	1.00	0.62	0.25	0.13
5,000 LE to 10,000	1.50	0.75	1.45	2.99	1.50	6.75	0.80	0.70	3/4-16 UNF	3.75	1.50	0.75	-	-



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL35082

RICE LAKE WEIGHING SYSTEMS
RL32019S-HE

VPG® SENSORTRONICS®
65083S

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL50210TA

RICE LAKE WEIGHING SYSTEMS
RL1800 Series

Specifications

Full Scale Output:
2.0 mV/V ± 0.05%
mV/V/ohm calibration

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 93 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.017% full scale

Insulation Resistance:
> 5,000 megohm

Cable Length:
20 ft

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 18-106
cFMus

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RL9018SS

Stainless Steel, Hermetically Sealed, NTEP Certified 1:4,000S/1:5,000M, OIML C3, IP68/IP69K



Picture is a representation of actual product.

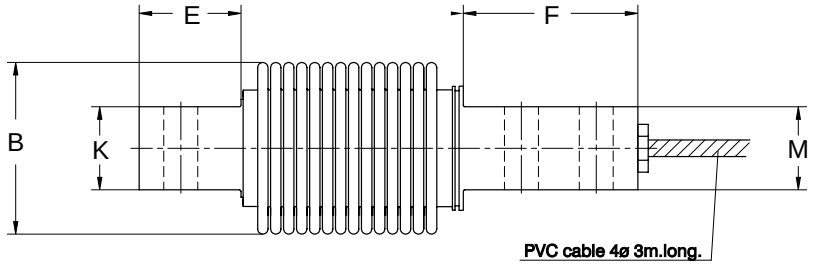
Approvals

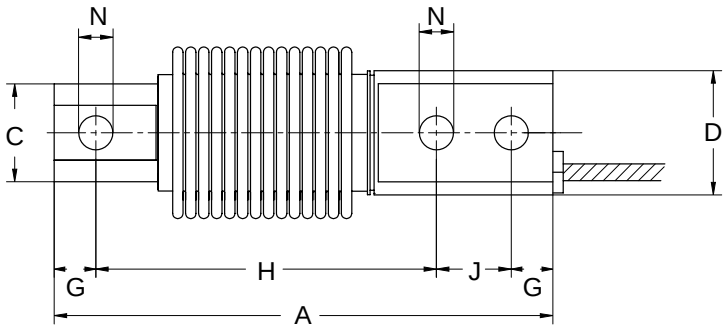
Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
5 kg	**188691**	2 lb	Consult
10 kg	**188692**	2 lb	Consult
20 kg	**188693**	2 lb	Consult
30 kg	**188694**	2 lb	Consult
50 kg	**188702**	2 lb	Consult
75 kg	**188695**	2 lb	Consult
100 kg	**188696**	2 lb	Consult
200 kg	**188697**	2 lb	Consult
250 kg	**188698**	2 lb	Consult
300 kg	**188699**	2 lb	Consult
500 kg	**188700**	2 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	J	K	M	N
kg/mm												
5 to 500	120.0	41.5	23.5	30.0	24.5	42.0	10.0	82.0	18.0	20.0	20.0	8.2





Interchangeable Products

RICE LAKE WEIGHING SYSTEMS

RLHBB

Specifications

Full Scale Output:
2.0 mV/V ± 10%

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP68/IP69K

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.017% full scale

Insulation Resistance:
> 5,000 megohm

Deflection at Capacity:
0.2 to 0.4 mm

Cable Length:
3 m
PVC cable

Cable Color Code:
Blue +Excitation
Black –Excitation
White +Signal
Red –Signal
Green +Sense
Yellow -Sense

Warranty:
Two-year limited

Approvals:
NTEP 18-107
OIML R60/2017-A-NL1-19.27
cFMus FM18US0307X

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SINGLE-ENDED BEAM

RL30000I

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 IIIL Class III Multiple Cell, IP67



Picture is a representation of actual product.

Approvals

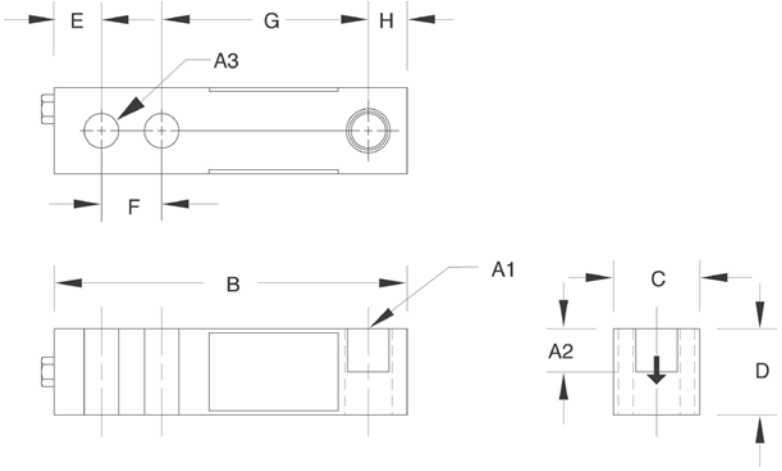
Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
1,000 lb	**21491**	3 lb	Consult
2,000 lb	**21493**	3 lb	Consult
2,500 lb	**21495**	3 lb	Consult
3,000 lb	**21497**	3 lb	Consult
4,000 lb	**21498**	3 lb	Consult
5,000 lb SE	**21500**	3 lb	Consult
5,000 lb LE	**21501**	5 lb	Consult
10,000 lb	**21503**	5 lb	Consult
Non-NTEP Certified			
250 lb	**17341**	3 lb	Consult
500 lb	**17342**	3 lb	Consult
20,000 lb	**17109**	10 lb	Consult
Conduit Adapter Kit (must be factory installed to maintain warranty)			
3/8-24 nipple	**31533***	1 lb	Consult
3/8-24 to 1/4-18 NPT	**31534***	1 lb	Consult

SE=small envelope; LE=large envelope
** PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*

Dimensions

Rated Capacity	A1	A2	A3	B	C	D	E	F	G	H
lb/in										
250 to 5,000 SE	1/2-20 UNF	0.60	0.53	5.12	1.25	1.25	0.62	1.00	3.00	0.50
5,000 LE to 10,000	3/4-16 UNF	0.75	0.78	6.75	1.50	1.50	0.75	1.50	3.75	0.75
20,000	1-14 UNF	1.00	1.03	8.75	2.00	2.00	1.00	2.00	4.75	1.00



Interchangeable Products

VPG® REVERE
5123

VPG® TEDEA-HUNTLEIGH®
3411

ARTECH®
30310

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL50210TA

RICE LAKE WEIGHING SYSTEMS
RL1800 Series

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
350 ± 3 ohm

Input Resistance:
385 ± 5 ohm

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VAC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
250 to 1,000 lb: 0.013 in
2,000 to 3,000 lb: 0.015 in
4,000 to 5,000 lb: 0.025 in
10,000 lb: 0.032 in
20,000 lb: 0.038 in

Cable Length:
20 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 98-043
cFMus

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RL30002 Thru Hole

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 IIIL Class III Multiple Cell, IP67



Picture is a representation of actual product.

Approvals

NTEP FM APPROVED

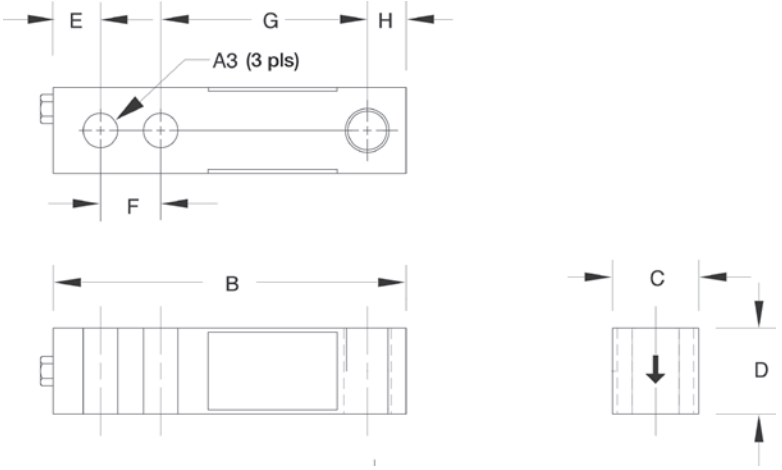
Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
1,000 lb	**21521**	3 lb	Consult
2,000 lb	**21522**	3 lb	Consult
2,500 lb	**21523**	3 lb	Consult
4,000 lb	**21524**	3 lb	Consult
5,000 lb SE	**21525**	3 lb	Consult
Conduit Adapter Kit (must be factory installed to maintain warranty)			
3/8-24 nipple	**31533***	1 lb	Consult
3/8-24 to 1/4-18 NPT	**31534***	1 lb	Consult

SE=small envelope
** PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*

Dimensions

Rated Capacity	A3	B	C	D	E	F	G	H
lb/in								
1,000 to 5,000 SE	0.53	5.12	1.25	1.25	0.62	1.00	3.00	0.50



Interchangeable Products

VPG® TEDEA-HUNTLEIGH®
3410

ARTECH®
30210

Specifications

Full Scale Output:
3.0 mV/V

Bridge Resistance:
350 ohm, nominal

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
1,000 lb: 0.013 in
2,000 to 2,500 lb: 0.015 in
4,000 to 5,000 lb: 0.025 in

Cable Length:
20 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 98-043
cFMus

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SINGLE-ENDED BEAM

RLH35

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 Class IIIL Multiple Cell, IP67

Limited Stock Available



Picture is a representation of actual product.

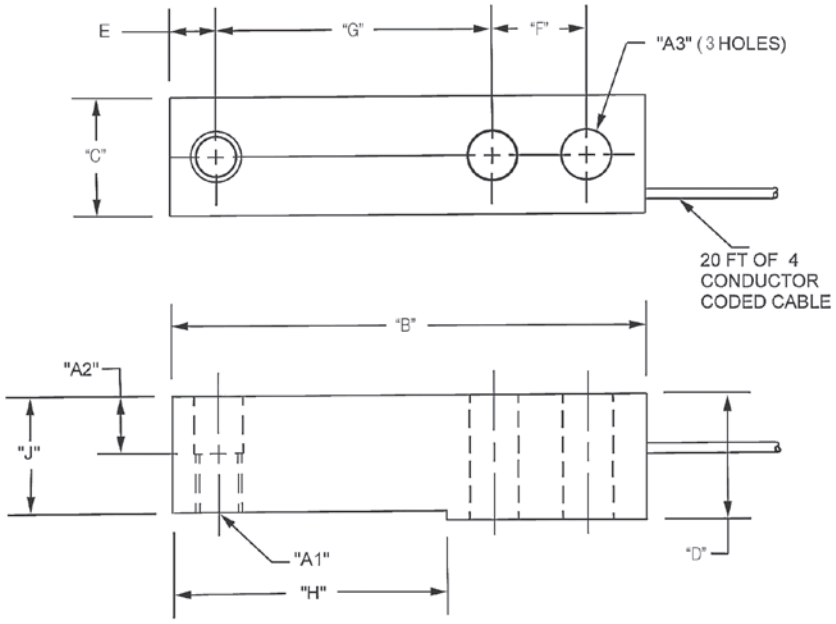
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
500 lb	**106038**	4 lb	Consult

Dimensions

Rated Capacity	A1	A2	A3	C	D	B	E	F	G	H	J
lb/in											
500	1/2-20 UNF	0.62	0.53	1.21	1.19	5.12	0.50	1.00	3.00	2. 85	1.120



Interchangeable Products

HBK®
H35

METTLER TOLEDO®
500 lb-8 ft cable
TB601019-008
1,000 lb-20 ft cable
TB601016-020
2,500 lb-8 ft cable
TB601016-008

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
350 ohm, nominal

Input Resistance:
385 ohm, nominal

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
0.02 in

Cable Length:
20 ft

Cable Diameter:
0.190 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

Warranty:
Two-year limited

Approvals:
NTEP 06-023
FM

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RL39123

Stainless Steel, Environmentally Sealed, IP67



Picture is a representation of actual product.

Approvals

FM APPROVED

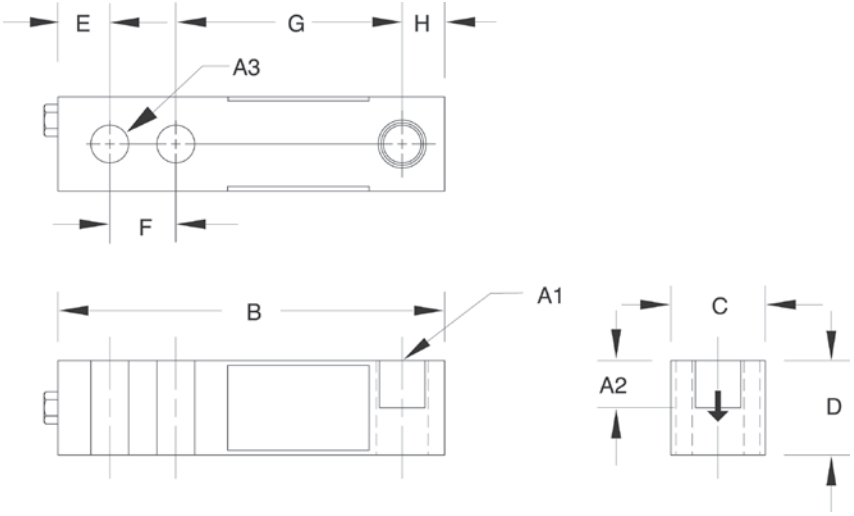
Order Information

Load Rating	Part #	Est. Weight	Price
20 ft Cables			
250 lb	**17386**	3 lb	Consult
500 lb	**17387**	3 lb	Consult
1,000 lb	**17189**	3 lb	Consult
2,500 lb	**17191**	3 lb	Consult
4,000 lb	**17193**	3 lb	Consult
5,000 lb	**17194**	5 lb	Consult
10,000 lb	**17195**	5 lb	Consult
30 ft Cables			
4,000 lb	**95562**	3 lb	Consult
Conduit Adapter Kit (must be factory installed to maintain warranty)			
3/8-24 nipple	**31533***	1 lb	Consult
3/8-24 to 1/4-18 NPT	**31534***	1 lb	Consult

** PN 31533 and PN 31534 must be installed together to form the Conduit Adapter Kit*

Dimensions

Rated Capacity	A1	A2	A3	B	C	D	E	F	G	H
lb/in										
250 to 4,000	1/2-20 UNF	0.60	0.53	5.12	1.25	1.25	0.62	1.00	3.00	0.50
5,000 to 10,000	3/4-16 UNF	0.75	0.78	6.75	1.50	1.50	0.75	1.50	3.75	0.75



Interchangeable Products

VPG® REVERE
9123

ARTECH®
SS30310

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL50210TA

RICE LAKE WEIGHING SYSTEMS
RL1800 Series

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
349 to 355 ohm

Input Resistance:
343 to 357 ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Nonlinearity:
0.03% full scale

Hysteresis:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
250 to 1,000 lb: 0.013 in
2,000 to 3,000 lb:0.015 in
4,000 to 5,000 lb: 0.025 in
10,000 lb: 0.32 in

Cable Length:
20 ft
30 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus

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SINGLE-ENDED BEAM

RL32018S-T

Stainless Steel, Hermetically Sealed, NTEP Certified, 1:5,000 Class III Multiple Cell, IP69K



Picture is a representation of actual product.

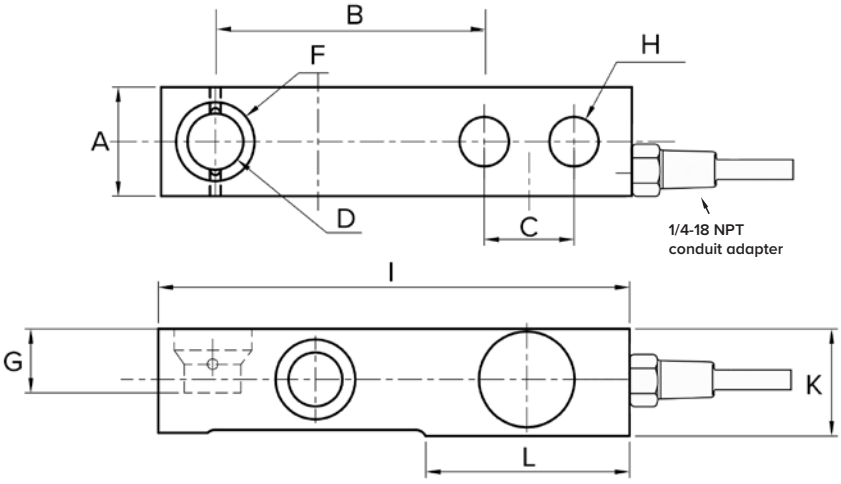
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
15 ft Cable			
500 lb	**189189**	3 lb	Consult
1,250 lb	**189190**	3 lb	Consult
2,500 lb	**189191**	3 lb	Consult
5,000 lb	**189192**	5 lb	Consult
10,000 lb	**189193**	5 lb	Consult
30 ft Cable			
500 lb	**191974**	3 lb	Consult
1,250 lb	**191975**	3 lb	Consult
2,500 lb	**191976**	3 lb	Consult
5,000 lb	**191977**	5 lb	Consult
10,000 lb	**191978**	5 lb	Consult
Replacement load pins			
Rocker pin 500 to 2.5 K	**108612**	1 lb	Consult
Rocker pin 5 K	**130408**	1 lb	Consult
Rocker pin 10 K	**131376**	1 lb	Consult
O-ring (two per pin)	**108202**	1 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	F	G	H	I	K	L
lb/in										
500 to 1,250	1.21	3.00	1.00	0.62	0.88	0.68	0.51	5.25	1.19	2.27
2,500	1.21	3.00	1.00	0.62	0.88	0.68	0.51	5.25	1.19	2.27
5,000	1.44	3.00	1.00	0.62	0.88	0.90	0.51	5.38	1.44	2.28
10,000	1.69	3.75	1.50	0.88	1.38	1.15	0.76	6.75	1.69	2.91



Interchangeable Products

METTLER TOLEDO®
TB600529-500 lb

METTLER TOLEDO
TB600363-1,250 lb

METTLER TOLEDO
TB600342-2,500 lb

METTLER TOLEDO
TB600343-5,000 lb

METTLER TOLEDO
TB600364-10,000 lb

HBK®
THC

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RLTM

Specifications

Full Scale Output:
2.0 mV/V ± 0.05%
mV/V/ohm calibration

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.017% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
15 ft
30 ft

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Shield is attached to element

Warranty:
Two-year limited

Approvals:
NTEP 18-106
cFMus

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RLHTO

Stainless Steel, Hermetically Sealed, OIML C3, IP66/68



Picture is a representation of actual product.

Approvals

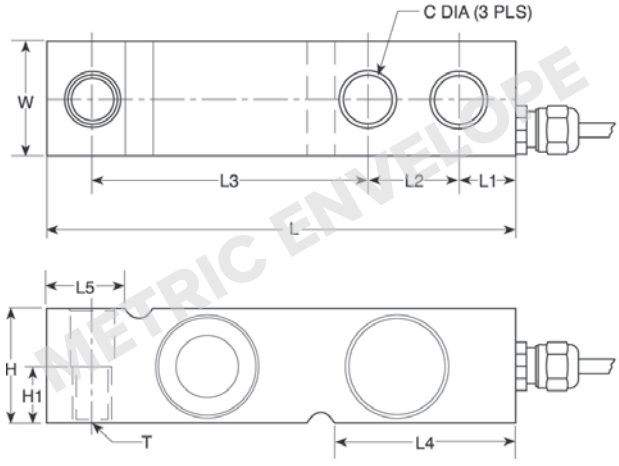
OIML FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
500 kg	**31253**	3 lb	Consult
1,000 kg	**31250**	3 lb	Consult
2,000 kg	**31251**	3 lb	Consult
5,000 kg	**31252**	5 lb	Consult

Dimensions

Rated Capacity	C	H	H1	L	L1	L2	L3	L4	L5	T	W
kg/mm											
500 to 2,000	13.5	32.0	16.0	130.0	15.8	25.4	76.2	50.5	23.5	M12 x 1.75	32.0
5,000	20.5	48.0	—	171.5	19.0	38.1	95.3	70.0	37.0	—	36.5



Interchangeable Products

VPG® TEDEA-HUNTLEIGH®
3510-OIML

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
1700 HE

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
380 (± 10) ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP66/68

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% applied load

Insulation Resistance:
2,000 megohm

Deflection at Capacity:
0.4 mm

Cable Length:
5 m

Cable Diameter:
5 mm
Polyurethane jacket

Cable Color Code:
Blue +Excitation
Black –Excitation
White +Signal
Red – Signal
Green +Sense
Grey –Sense

Warranty:
Two-year limited

Approvals:
OIML
cFMus

METRIC ENVELOPE

SINGLE-ENDED BEAM

RLSSB

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 Class III Multiple Cell, IP67



Picture is a representation of actual product.

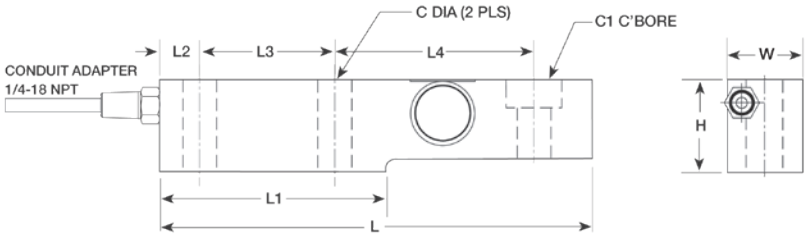
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
1,000 lb	**34310**	5 lb	Consult
2,000 lb	**34311**	5 lb	Consult
5,000 lb	**34312**	6 lb	Consult
10,000 lb	**34313**	10 lb	Consult
Options			
Load cell button (1 K to 5 K)	**26112**	—	Consult

Dimensions

Rated Capacity	C	C1	H	L	L1	L2	L3	L4	W
lb/in									
1,000 to 5,000	0.53	0.68 thru C'Bore 1.19 x 0.47 DP	1.88	8.00	4.00	0.75	2.50	3.88	1.44
10,000	0.88	1.00 thru C'Bore 1.63 x 0.62 DP	2.75	9.25	4.62	0.81	2.63	4.88	1.88



Interchangeable Products

ARTECH®
SS30610

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL1900 Series

Specifications

Full Scale Output:
2.0 mV/V

Bridge Resistance:
350 ohm, nominal

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Non-repeatability:
0.01% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
15 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

Warranty:
Two-year limited

Approvals:
NTEP 96-053
cFMus

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RLSB250/RLSB250T

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 Class III Multiple Cell, IP67



PN 116084

Picture is a representation of actual product.

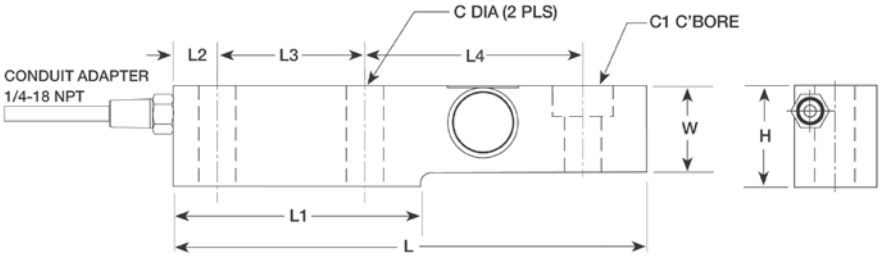
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
Threaded			
2,500 lb	**116053**	6 lb	Consult
5,000 lb	**116054**	6 lb	Consult
Thru Hole			
2,500 lb	**34482**	6 lb	Consult
10,000 lb	**116055**	10 lb	Consult
Options			
Load cell button	**116084**	—	Consult

Dimensions

Rated Capacity	C	C1	H	L	L1	L2	L3	L4	T	W
lb/in										
2,500	0.53	1.19 x 0.47 DP	1.93	8.00	4.00	0.75	2.50	3.88	3/4-16 UNF	1.25
5,000	0.53	1.19 x 0.47 DP	1.93	8.00	4.00	0.75	2.50	3.88	3/4-16 UNF	1.45
10,000	—	1.63 x 0.62 DP	2.46	9.00	4.00	0.75	2.00	5.25	—	1.62



Interchangeable Products

CARDINAL®

SB2500*

**No threads in load hole*

Specifications

Full Scale Output:
2.0 mV/V

Bridge Resistance:
350 ohm, nominal

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Non-repeatability:
0.01% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
20 ft
PN 34482: 15 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

Warranty:
Two-year limited

Approvals:
NTEP 96-053
cFMus

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SINGLE-ENDED BEAM

RL50219SS

Stainless Steel, Environmentally Sealed, IP65



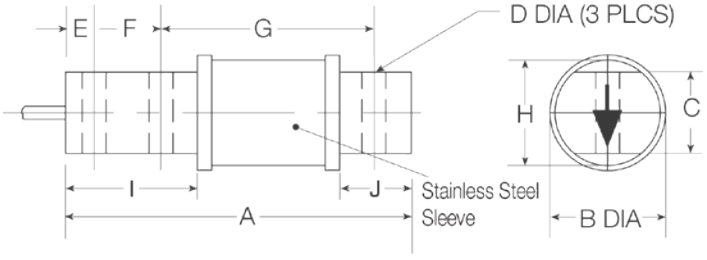
Picture is a representation of actual product.

Order Information

Load Rating	Part #	Est. Weight	Price
25 lb	**194014**	2 lb	Consult
50 lb	**194015**	2 lb	Consult
75 lb	**194016**	2 lb	Consult
100 lb	**194017**	2 lb	Consult
150 lb	**194018**	2 lb	Consult
250 lb	**194019**	2 lb	Consult
500 lb	**194020**	2 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J
lb/in										
25 to 500	2.81	1.26	0.62	0.26	0.25	0.50	1.81	0.90	1.00	0.50



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS

RL60040SST

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS

RL50219SS-TA

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
380 to 450 ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP65

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC

Nonlinearity:
0.03% full scale

Hysteresis:
0.02% full scale

Combined Error:
0.017% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
20 ft

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

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RL50225

Alloy Steel, Environmentally Sealed, IP65

NEW



Picture is a representation of actual product.

Approvals

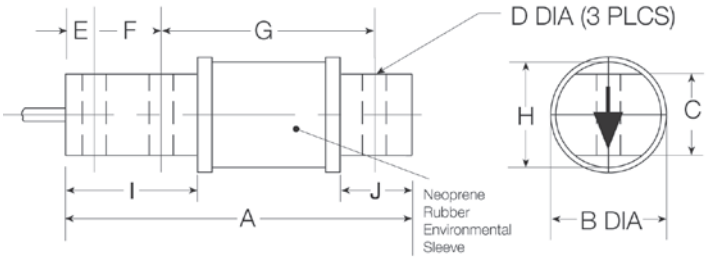
FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
25 lb	**226878**	2 lb	Consult
50 lb	**226879**	2 lb	Consult
100 lb	**226880**	2 lb	Consult
150 lb	**226881**	2 lb	Consult
250 lb	**226882**	2 lb	Consult
500 lb	**226883**	2 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J
lb/in										
25 to 500	2.81	1.26	0.62	0.26	0.25	0.50	1.81	0.90	1.00	0.50



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL50210

RICE LAKE WEIGHING SYSTEMS
RL50219SS

VPG® SENSORTRONICS®
60040

ARTECH®
50210

VPG® REVERE
5503

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL50210TA

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
300 ohm

Input Resistance:
360 to 450 ohm

Material/Finish:
Alloy steel, nickel plated

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP65

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Nonlinearity:
0.03% full scale

Hysteresis:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
25 to 50 lb: 0.008 in
100 lb: 0.010 in
150 lb: 0.012 in
250 lb: 0.016 in
500 lb: 0.025 in

Cable Length:
20 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus

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SINGLE-ENDED BEAM

RL50210

Alloy Steel, Environmentally Sealed, IP65



Picture is a representation of actual product.

Approvals

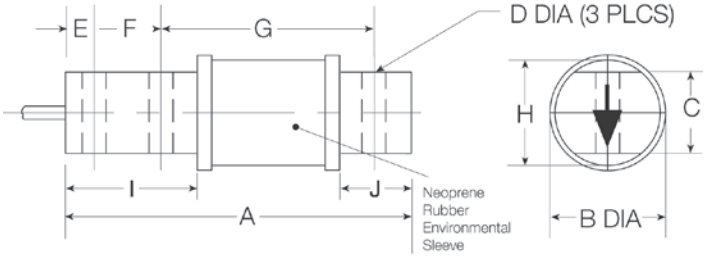
FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
25 lb	**17385**	2 lb	Consult
50 lb	**17380**	2 lb	Consult
100 lb	**17381**	2 lb	Consult
150 lb	**17382**	2 lb	Consult
250 lb	**17383**	2 lb	Consult
500 lb	**17384**	2 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J
lb/in										
25 to 500	2.81	1.30	0.62	0.26	0.25	0.50	1.81	1.00	1.00	0.50



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL50219SS

VPG® SENSORTRONICS®
60040

ARTECH®
50210

VPG® REVERE
5503

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL50210TA

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
349 to 355 ohm

Input Resistance:
360 to 450 ohm

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed with neoprene sleeve, IP65

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Nonlinearity:
0.03% full scale

Hysteresis:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
25 to 50 lb: 0.008 in
100 lb: 0.010 in
150 lb: 0.012 in
250 lb: 0.016 in
500 lb: 0.025 in

Cable Length:
20 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus

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RL40BBS

Alloy Steel, Environmentally Sealed, IP65



Picture is a representation of actual product.

Interchangeable Products

HBK®
BBS

VPG® SENSORTRONICS®
65087

FAIRBANKS®
3-481XX-1

FAIRBANKS
3-48660-1

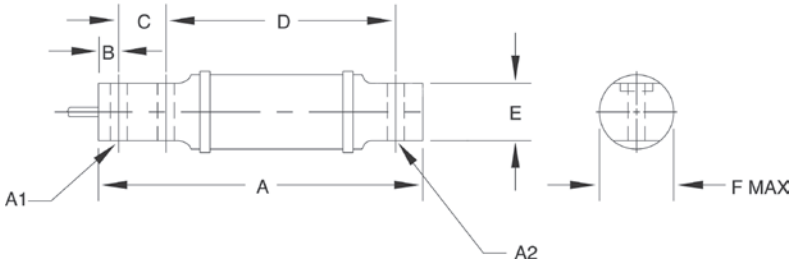
ARTECH®
40310

Order Information

Load Rating	Part #	Est. Weight	Price
50 lb	**17395**	3 lb	Consult
100 lb	**17343**	3 lb	Consult
200 lb	**17396**	3 lb	Consult
250 lb	**17397**	3 lb	Consult
500 lb	**17398**	3 lb	Consult
1,000 lb	**17344**	3 lb	Consult
2,500 lb	**17345**	9 lb	Consult

Dimensions

Rated Capacity	A	A1	A2	B	C	D	E	F	G	H
lb/in										
50 to 100	6.00	0.31	0.31	0.38	0.88	4.25	1.06	1.41	—	—
200 to 1,000	6.62	0.52	0.52	0.50	1.12	4.25	1.06	1.41	—	—
2,500	11.38	0.53	0.62	0.50	1.75	8.25	1.25	2.19	1.19	0.12



Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
750 (± 10) ohm

Input Resistance:
800 (±50) ohm

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed with neoprene sleeve, IP65

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Nonlinearity:
0.03% full scale

Hysteresis:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
50 lb: 0.015 in
100 lb: 0.005 in
200 to 250 lb: 0.030 in
500 lb: 0.025 in
1,000 lb: 0.040 in
2,500 lb: 0.120 in

Cable Length:
10 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

Warranty:
Two-year limited

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SINGLE-ENDED BEAM

RL32011WB-L

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, Potted, IP67



Picture is a representation of actual product.

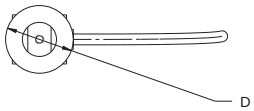
Approvals

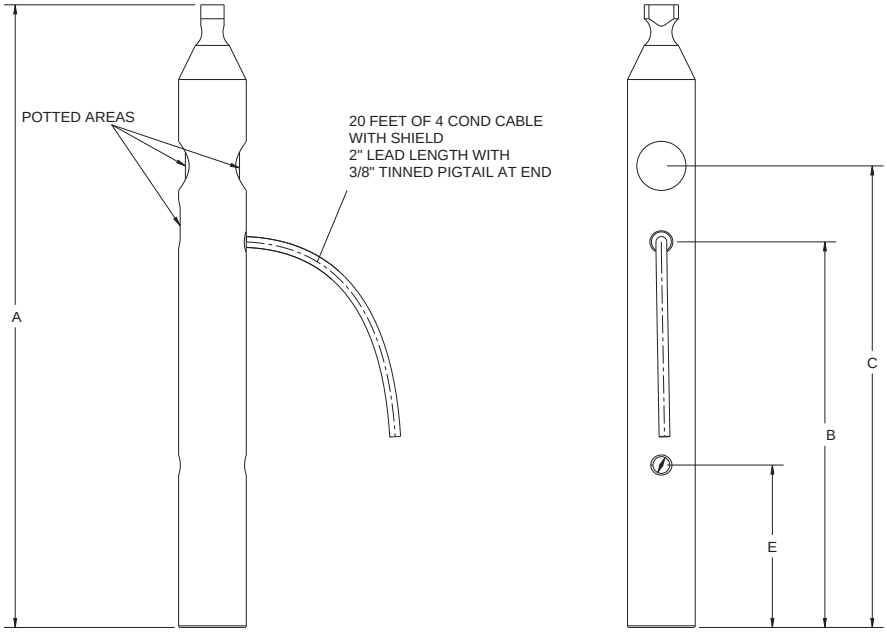
Order Information

Load Rating	Part #	Est. Weight	Price
1,250 lb	**119788**	5 lb	Consult
5,000 lb	**119790**	9 lb	Consult
10,000 lb	**119791**	17 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E
lb/in					
1,250	11.50	7.12	8.52	1.25	3.0
5,000	10.9	5.5	7.4	2.0	3.0
10,000	12.6	5.9	8.0	2.5	3.0





Interchangeable Products

AVERY WEIGH TRONIX®

Weigh Bar

Specifications

Full Scale Output:
2.0 (± 0.1%) mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
385 (± 10) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.02% full scale

Non-repeatability:
± 0.01% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
20 ft

Cable Diameter:
0.190 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

Warranty:
Two-year limited

Approvals:
NTEP 11-024

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RL32011WB-T

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, Potted, IP67



Picture is a representation of actual product.

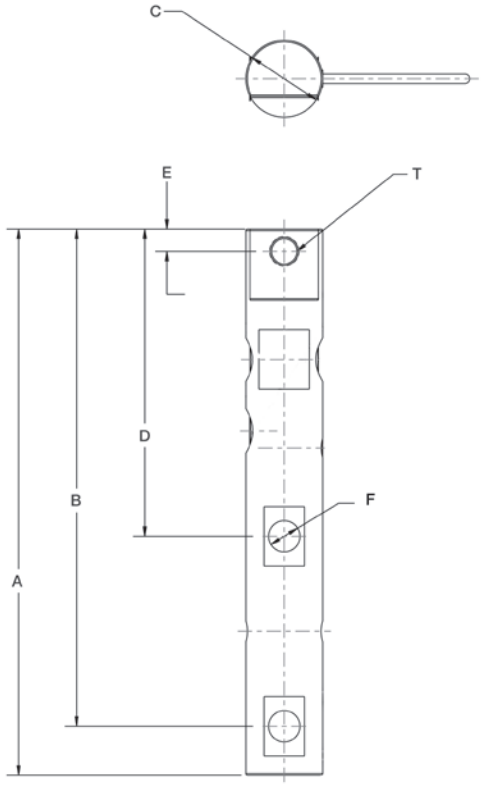
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
1,250 lb	**119796**	3 lb	Consult
2,500 lb	**119797**	3 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	T
lb/in							
1,250	11.50	10.47	1.25	6.47	0.47	0.53	1/2-13 UNC
2,500	11.50	10.47	1.62	6.47	0.47	0.66	5/8-11 UNC



Interchangeable Products

AVERY WEIGH TRONIX®

Weigh Bar

Specifications

Full Scale Output:
2.0 (± 0.1%) mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
385 (± 10) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.02% full scale

Non-repeatability:
± 0.01% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
20 ft

Cable Diameter:
0.190 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

Warranty:
Two-year limited

Approvals:
NTEP 11-024

DOUBLE-ENDED BEAM

RL72020

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III/1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product.

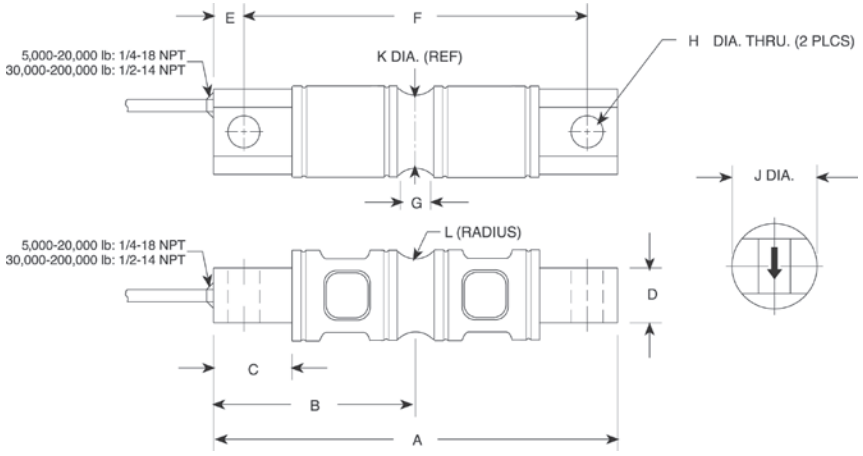
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
NTEP			
5,000 lb	**201758**	5 lb	Consult
10,000 lb	**201759**	6 lb	Consult
20,000 lb	**201760**	7 lb	Consult
30,000 lb	**201761**	18 lb	Consult
40,000 lb	**201762**	18 lb	Consult
50,000 lb	**201763**	18 lb	Consult
60,000 lb	**201764**	18 lb	Consult
100,000 lb	**201765**	28 lb	Consult
150,000 lb	**201766**	34 lb	Consult
200,000 lb	**201767**	90 lb	Consult
Non-NTEP			
250,000 lb	**201768**	93 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	J	K	L
lb/in											
5,000 to 10,000	8.12	4.06	1.44	1.12	0.62	6.88	0.62	0.66	1.70	1.48	0.50
20,000	8.12	4.06	1.44	1.12	0.62	6.88	0.84	0.66	1.95	1.48	0.50
30,000 to 60,000	10.25	5.12	1.88	2.37	0.88	8.50	1.00	1.06	3.20	2.73	1.00
100,000	11.25	5.62	1.88	2.50	0.88	9.50	1.00	1.06	3.50	3.24	1.50
150,000	11.25	5.62	1.88	2.80	0.88	9.50	1.25	1.06	3.90	3.64	1.50
200,000 to 250,000	16.10	8.05	3.05	4.60	1.55	13.00	1.30	1.56	5.38	5.17	2.00



Interchangeable Products

VPG® REVERE
5103*

ARTECH®
70210

METTLER-TOLEDO®
SLD 430

**Conduit adapter optional*

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
EZ Mount 1

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
5 to 10 k: 700 (± 14) ohm
20 to 150 k: 770 (± 10) ohm
200 to 250 k: 700 (± 14) ohm

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
5,000 lb: 0.02 in
10,000 lb: 0.025 in
20,000 lb: 0.042 in
30,000 to 50,000 lb: 0.02 in
60,000 lb: 0.025 in
100,000 lb: 0.02 in

Cable Length:
30 ft

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 21-064
cFMus

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RL7020SS

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III/1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product.

Approvals

Interchangeable Products

VPG® REVERE
9103

Weigh Module Available

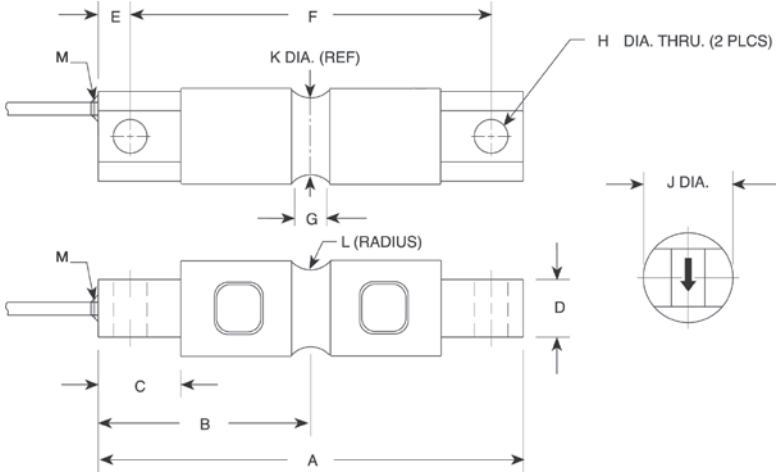
RICE LAKE WEIGHING SYSTEMS
EZ Mount 1 SS

Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
10,000 lb	**201781**	5 lb	Consult
20,000 lb	**201782**	7 lb	Consult
30,000 lb	**201783**	18 lb	Consult
40,000 lb	**201784**	18 lb	Consult
50,000 lb	**201785**	18 lb	Consult
60,000 lb	**201786**	18 lb	Consult
100,000 lb	**201787**	28 lb	Consult
Non-NTEP Certified			
5,000 lb	**201780**	5 lb	Consult
150,000 lb	**201788**	34 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	J	K	L	M
lb/in												
5,000 to 10,000	8.12	4.06	1.44	1.12	0.62	6.88	0.62	0.66	1.70	1.48	0.50	1/4-18 NPT
20,000	8.12	4.06	1.44	1.12	0.62	6.88	0.84	0.66	1.95	1.48	0.50	1/4-18 NPT
30,000 to 60,000	10.25	5.12	1.88	2.37	0.88	8.50	1.00	1.06	3.20	2.73	1.00	1/2-14 NPT
100,000	11.25	5.62	1.88	2.50	0.88	9.50	1.00	1.06	3.50	3.24	1.50	1/2-14 NPT
150,000	11.25	5.62	1.88	2.80	0.88	9.50	1.25	1.06	3.90	3.64	1.50	1/2-14 NPT



Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
700 (± 10) ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
30 ft polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 21-064
cFMus

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DOUBLE-ENDED BEAM

RL72020 MLC Coated

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III/1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product.

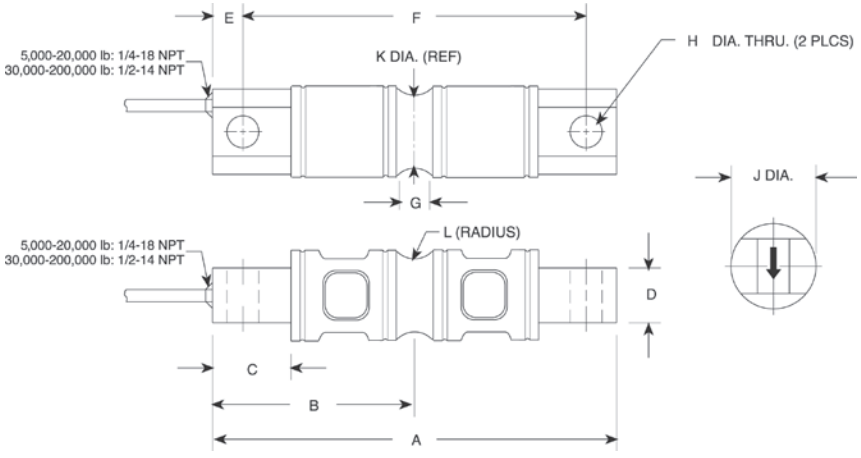
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
NTEP			
5,000 lb	**201769**	5 lb	Consult
10,000 lb	**201770**	6 lb	Consult
20,000 lb	**201771**	7 lb	Consult
30,000 lb	**201772**	18 lb	Consult
40,000 lb	**201773**	18 lb	Consult
50,000 lb	**201774**	18 lb	Consult
60,000 lb	**201775**	18 lb	Consult
100,000 lb	**201776**	28 lb	Consult
150,000 lb	**201777**	34 lb	Consult
200,000 lb	**201778**	90 lb	Consult
Non-NTEP			
250,000 lb	**201779**	93 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	J	K	L
lb/in											
5,000 to 10,000	8.12	4.06	1.44	1.12	0.62	6.88	0.62	0.66	1.70	1.48	0.50
20,000	8.12	4.06	1.44	1.12	0.62	6.88	0.84	0.66	1.95	1.48	0.50
30,000 to 60,000	10.25	5.12	1.88	2.37	0.88	8.50	1.00	1.06	3.20	2.73	1.00
100,000	11.25	5.62	1.88	2.50	0.88	9.50	1.00	1.06	3.50	3.24	1.50
150,000	11.25	5.62	1.88	2.80	0.88	9.50	1.25	1.06	3.90	3.64	1.50
200,000 to 250,000	16.10	8.05	3.05	4.60	1.55	13.00	1.30	1.56	5.38	5.17	2.00



Weigh Module Available

RICE LAKE WEIGHING SYSTEMS

EZ Mount 1

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
5,000 to 10,000 lb: 700 (± 14) ohm
20,000 to 150,000 lb: 770 (± 10) ohm
200,000 to 250,000 lb: 700 (± 14) ohm

Material/Finish:
Alloy steel, coated

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
5,000 lb: 0.02 in
10,000 lb: 0.025 in
20,000 lb: 0.042 in
30,000 to 50,000 lb: 0.02 in
60,000 lb: 0.025 in
100,000 lb: 0.02 in

Cable Length:
30 ft

Cable Diameter:
5,000 to 20,000 lb: 0.200 in
30,000 to 250,000 lb: 0.305 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 21-064
cFMus

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RL72019SS

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 Class III/1:10,000 Class IIIL Multiple Cell, IP68



Picture is a representation of actual product.

Approvals

Interchangeable Products

VPG® REVERE
9103

Weigh Module Available

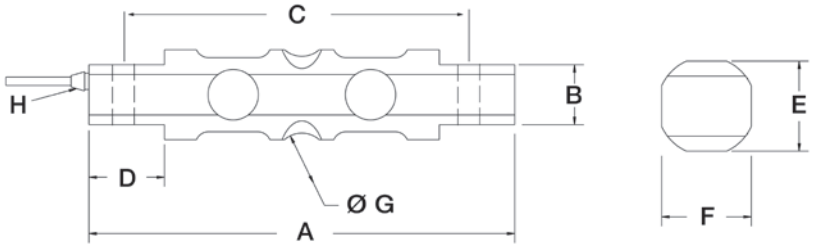
RICE LAKE WEIGHING SYSTEMS
EZ Mount 1 HE

Order Information

Load Rating	Part #	Est. Weight	Price
Non-NTEP			
5,000 lb	**194021**	5 lb	Consult
NTEP			
10,000 lb	**194022**	5 lb	Consult
20,000 lb	**194023**	5 lb	Consult
30,000 lb	**194024**	20 lb	Consult
40,000 lb	**194025**	20 lb	Consult
50,000 lb	**194026**	20 lb	Consult
60,000 lb	**194027**	20 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	ØG	H
lb/in								
5,000 to 20,000	8.12	1.14	6.88	1.44	1.71	1.71	1.00	1/4-18 NPT
30,000 to 60,000	10.25	2.38	8.50	1.88	3.03	3.03	2.00	1/2-14 NPT



Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
800 (± 30) ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Deflection at Capacity:
5000 lb 0.02 in
10,000 lb 0.025 in
20,000 lb 0.03 in
30,000-50,000 lb 0.02
60,000 lb 0.025 in

Seal Type:
Welded-seal, IP68

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC

Nonlinearity:
0.03% full scale

Hysteresis:
0.5% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
25 ft

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 21-064
cFMus

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DOUBLE-ENDED BEAM

RL77032

Alloy Steel, Environmentally Sealed, IP67



Picture is a representation of actual product.

Approvals

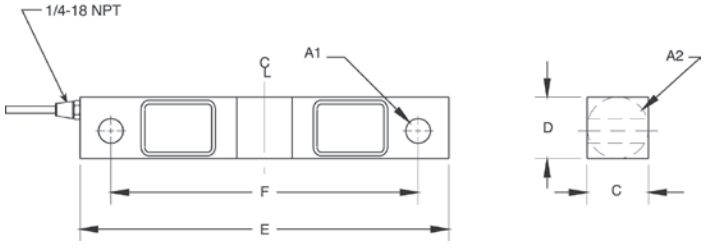
FM APPROVED

Order Information

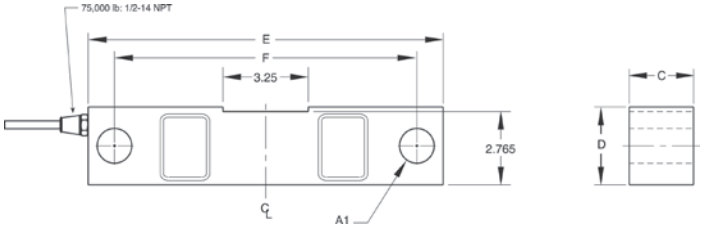
Load Rating	Part #	Est. Weight	Price
1,000 lb	**221536**	4 lb	Consult
1,500 lb	**221537**	4 lb	Consult
2,000 lb	**221538**	4 lb	Consult
2,500 lb	**221539**	4 lb	Consult
3,000 lb	**221540**	4 lb	Consult
5,000 lb	**221541**	4 lb	Consult
10,000 lb	**221542**	7 lb	Consult
15,000 lb	**221543**	7 lb	Consult
20,000 lb	**221544**	7 lb	Consult
25,000 lb	**221545**	7 lb	Consult
50,000 lb	**221546**	25 lb	Consult
75,000 lb	**221547**	27 lb	Consult

Dimensions

Rated Capacity	A1	A2	C	D	E	F
lb/in						
1,000 to 5,000	0.50	1.25	1.25	1.25	7.50	6.25
10,000 to 25,000	0.81	1.99	1.44	1.94	8.75	7.50
50,000	1.31	3.00	2.44	2.94	13.50	11.50
75,000	1.31	-	2.44	2.94	13.50	11.50



1,000 to 50,000 lb



75,000 lb

Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL75016

VPG® SENSORTRONICS®
65016

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL1600 Series

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
770 (± 10) ohm

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC

Nonlinearity:
0.03% full scale

Hysteresis:
0.02% full scale

Deflection at Capacity:
1,000 to 2,500 lb: 0.01 in
5,000 lb: 0.015 in
10,000 to 20,000 lb: 0.022 in
25,000 lb: 0.036 in
50,000 lb: 0.052 in
75,000 lb: 0.07 in

Insulation Resistance:
5,000 megohm

Cable Length:
25 ft
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus

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RL77032SS

Stainless Steel, Environmentally Sealed, IP67



Picture is a representation of actual product.

Approvals

FM APPROVED

Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL75016SS

RICE LAKE WEIGHING SYSTEMS
RL77032SS HE

RICE LAKE WEIGHING SYSTEMS
RL75016S-W

VPG® SENSORTRONICS®
65016

Weigh Module Available

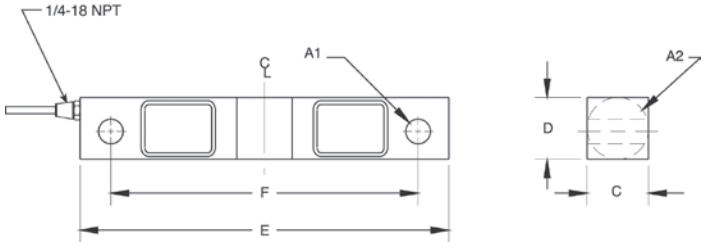
RICE LAKE WEIGHING SYSTEMS
RL1600 Series

Order Information

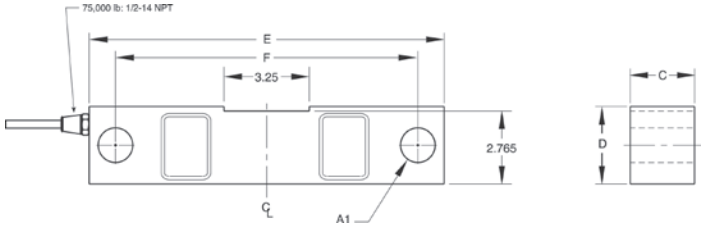
Load Rating	Part #	Est. Weight	Price
1,000 lb	**221548**	4 lb	Consult
1,500 lb	**221549**	4 lb	Consult
2,000 lb	**221550**	4 lb	Consult
2,500 lb	**221551**	4 lb	Consult
5,000 lb	**221552**	4 lb	Consult
10,000 lb	**221553**	7 lb	Consult
15,000 lb	**221554**	7 lb	Consult
20,000 lb	**221555**	7 lb	Consult
25,000 lb	**221556**	7 lb	Consult
50,000 lb	**221557**	25 lb	Consult
75,000 lb	**221558**	27 lb	Consult

Dimensions

Rated Capacity	A1	A2	C	D	E	F
lb/in						
1,000 to 5,000	0.50	1.25	1.25	1.25	7.50	6.25
10,000 to 25,000	0.81	1.99	1.44	1.94	8.75	7.50
50,000	1.31	3.00	2.44	2.94	13.50	11.50
75,000	1.31	-	2.44	2.94	13.50	11.50



1,000 to 50,000 lb



75,000 lb

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
770 (± 10) ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC

Nonlinearity:
0.07% full scale

Hysteresis:
0.02% full scale

Deflection at Capacity:
1,000 to 2,500 lb: 0.01 in
5,000 lb: 0.015 in
10,000 to 20,000 lb: 0.022 in
25,000 lb: 0.036 in
50,000 lb: 0.052 in
75,000 lb: 0.07 in

Insulation Resistance:
5,000 megohm

Cable Length:
25 ft
Polyurethane

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus

DOUBLE-ENDED BEAM

RL77032SS HE

Stainless Steel, Hermetically Sealed, IP69K



Picture is a representation of actual product.

Approvals

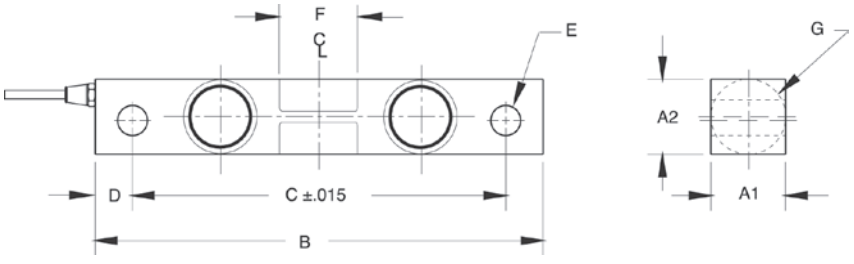
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Order Information

Load Rating	Part #	Est. Weight	Price
1,000 lb	**221559**	4 lb	Consult
1,500 lb	**221560**	4 lb	Consult
2,000 lb	**221561**	4 lb	Consult
2,500 lb	**221562**	4 lb	Consult
5,000 lb	**221563**	4 lb	Consult
10,000 lb	**221564**	7 lb	Consult
15,000 lb	**221565**	7 lb	Consult
20,000 lb	**221566**	7 lb	Consult
25,000 lb	**221567**	7 lb	Consult

Dimensions

Rated Capacity	A1	A2	B	C	D	E	F	G	CONDUIT ADAPTER
lb/in									
1,000 to 5,000	1.22	1.22	7.50	6.25	0.62	0.50	1.12	1.25	1/4-18 NPT
10,000 to 25,000	1.44	1.94	8.75	7.50	0.62	0.81	1.62	1.99	1/4-18 NPT



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL75016WHE

VPG® SENSORTRONICS®
65016WH

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL1600 HE Series

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
770 (± 10) ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC

Nonlinearity:
0.03% full scale

Hysteresis:
0.02% full scale

Deflection at Capacity:
1,000 lb: 0.01 in
5,000 lb: 0.015 in
10,000 to 20,000 lb: 0.022 in
25,000 lb: 0.036 in
50,000 lb: 0.052 in
75,000 lb: 0.07 in

Insulation Resistance:
5,000 megohm

Cable Length:
25 ft
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus

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Limited Stock Available

DOUBLE-ENDED BEAM

RL75016

Alloy Steel, Environmentally Sealed, IP67



Picture is a representation of actual product.

Approvals

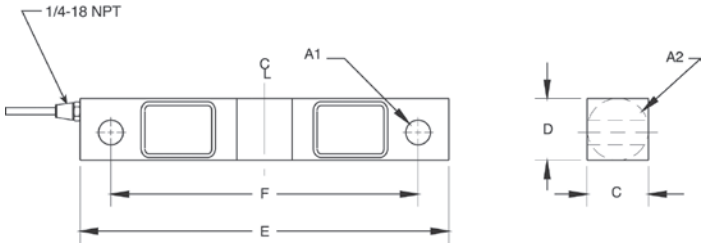
FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
1,500 lb	**17302**	4 lb	Consult
15,000 lb	**17313**	7 lb	Consult

Dimensions

Rated Capacity	A1	A2	C	D	E	F
lb/in						
1,500	0.50	1.25	1.25	1.25	7.50	6.25
15,000	0.81	1.99	1.44	1.94	8.75	7.50



1,500 to 15,000 lb

Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL77032

VPG® CELTRON®
DSR

VPG® SENSORTRONICS®
65016

VPG® REVERE
5203

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL1600 Series

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
770 (± 10) ohm

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Nonlinearity:
0.03% full scale

Hysteresis:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
1,500 lb: 0.01 in
15,000 to 20,000 lb: 0.022 in

Cable Length:
25 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus

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DOUBLE-ENDED BEAM

RL75016 MLC Coated

Alloy Steel, Environmentally Sealed, IP67



Picture is a representation of actual product.

Approvals

FM APPROVED

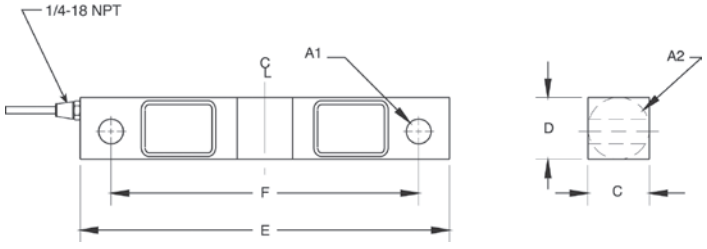
Order Information

Load Rating	Part #	Est. Weight	Price
1,000 lb	**187058**	4 lb	Consult
1,500 lb	**187059**	4 lb	Consult
2,000 lb	**187060**	4 lb	Consult
2,500 lb	**187061**	4 lb	Consult
5,000 lb	**187063**	4 lb	Consult
10,000 lb	**187064**	7 lb	Consult
15,000 lb	**187065**	7 lb	Consult
20,000 lb	**187066**	7 lb	Consult
25,000 lb	**187067**	7 lb	Consult
50,000 lb	**187068**	25 lb	Consult
75,000 lb*	**187069**	27 lb	Consult

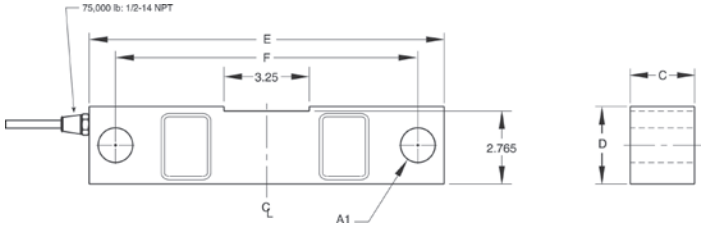
**75,000lb capacity has a square center*

Dimensions

Rated Capacity	A1	A2	C	D	E	F
lb/in						
1,000 to 5,000	0.50	1.25	1.25	1.25	7.50	6.25
10,000 to 25,000	0.81	1.99	1.44	1.94	8.75	7.50
50,000	1.31	3.00	2.44	2.94	13.50	11.50
75,000	1.31	—	2.44	2.94	13.50	11.50



1,000 to 50,000 lb



75,000 lb

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS

RL1600 Series

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
770 (± 10) ohm

Material/Finish:
Alloy steel, coated

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Nonlinearity:
0.03% full scale

Hysteresis:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
25 ft

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus

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Limited Stock Available

DOUBLE-ENDED BEAM

RL75016SS

Stainless Steel, Environmentally Sealed, IP67



Picture is a representation of actual product.

Approvals

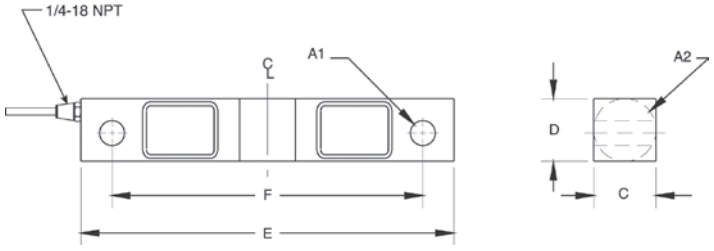
FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
1,500 lb	**17303**	4 lb	Consult
2,000 lb	**17305**	4 lb	Consult
25,000 lb	**17318**	7 lb	Consult

Dimensions

Rated Capacity	A1	A2	C	D	E	F
lb/in						
1,500 to 2,000	0.50	1.25	1.25	1.25	7.50	6.25
25,000	0.81	1.99	1.44	1.94	8.75	7.50



1,000 to 25,000 lb

Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL77032SS

RICE LAKE WEIGHING SYSTEMS
RL75016WHE*

VPG® SENSORTRONICS®
65016W

VPG SENSORTRONICS
65016WH*

VPG® REVERE
9203

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL1600 Series

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
770 (± 10) ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Nonlinearity:
0.07% full scale

Hysteresis:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
1,500 to 2,000 lb: 0.01 in
25,000 lb: 0.036 in

Cable Length:
25 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus

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DOUBLE-ENDED BEAM

RL75016SS-W

Stainless Steel, Welded Seal, IP67



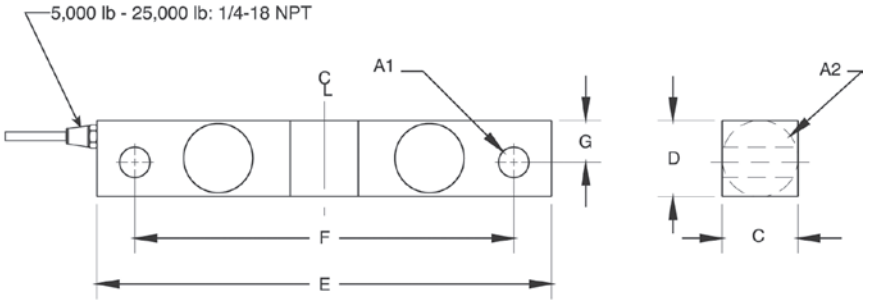
Picture is a representation of actual product.

Order Information

Load Rating	Part #	Est. Weight	Price
5,000 lb	**168115**	4 lb	Consult
10,000 lb	**168116**	7 lb	Consult
15,000 lb	**168117**	7 lb	Consult
20,000 lb	**168118**	7 lb	Consult
25,000 lb	**168119**	7 lb	Consult

Dimensions

Rated Capacity	A1	A2	C	D	E	F	G
lb/in							
5,000	0.50	1.25	1.25	1.25	7.50	6.25	0.69
10,000 to 25,000	0.81	1.99	1.44	1.94	8.75	7.50	0.96



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL77032SS HE

RICE LAKE WEIGHING SYSTEMS
RL75016SS

RICE LAKE WEIGHING SYSTEMS
RL75016WHE

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
770 (± 10) ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V max)

Hysteresis:
0.02% full scale

Linearity:
0.03% full scale

Cable Length:
25 ft

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

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Limited Stock Available

DOUBLE-ENDED BEAM

RL75016WHE

Stainless Steel, Hermetically Sealed, IP69K



Picture is a representation of actual product.

Approvals

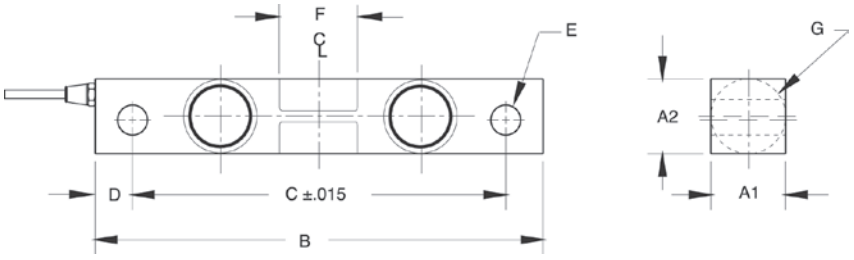
FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
2,000 lb	**67045**	4 lb	Consult
20,000 lb	**67050**	7 lb	Consult
25,000 lb	**67051**	7 lb	Consult

Dimensions

Rated Capacity	A1	A2	B	C	D	E	F	G	CONDUIT ADAPTER
lb/in									
2,000	1.22	1.22	7.50	6.25	0.62	0.50	1.12	1.25	1/2-14 NPT
20,000 to 25,000	1.44	1.94	8.75	7.50	0.62	0.81	1.62	1.99	1/2-14 NPT



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL77032SS HE

VPG SENSORTRONICS
65016WH

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL1600 Series

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
699 to 707 ohm

Input Resistance:
686 to 714 ohm

Material/Finish:
Stainless steel

Temperature:
Operating range
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Insulation Resistance:
2,000 megohm

Cable Length:
25 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

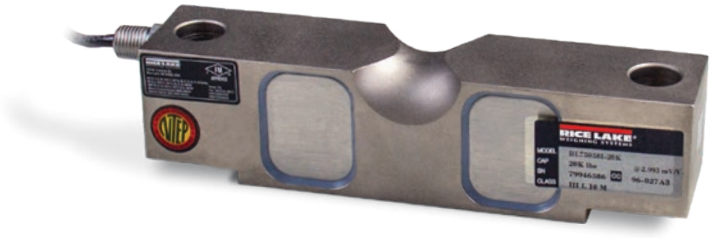
Warranty:
Two-year limited

Approvals:
cFMus

DOUBLE-ENDED BEAM

RL75058I for Rice Lake Coil Scale

Alloy Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Multiple Cell, IP67



Picture is a representation of actual product.

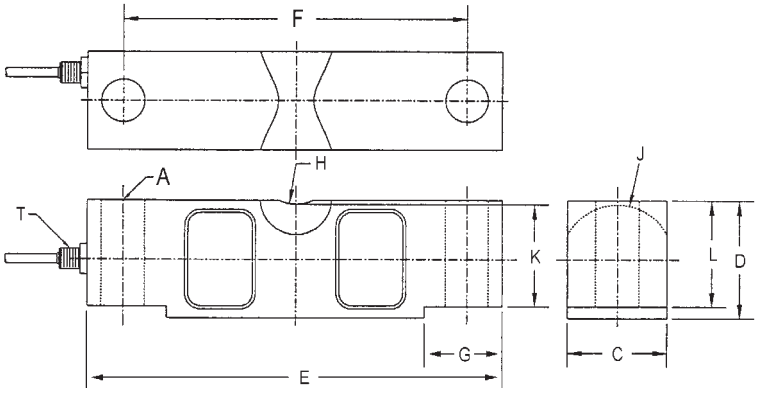
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
20,000 lb	**121439**	8 lb	Consult
25,000 lb	**121440**	8 lb	Consult
40,000 lb	**121441**	13 lb	Consult
50,000 lb	**121442**	19 lb	Consult
60,000 lb	**121443**	19 lb	Consult
75,000 lb	**121444**	19 lb	Consult

Dimensions

Rated Capacity	A	C	D	E	F	G	H	J	K	L	T
lb/in											
20,000 to 25,000	0.68	1.69	1.94	7.75	6.50	1.38	0.75	0.90	1.63	1.70	1/4-18 NPT
40,000	0.81	1.94	2.44	10.25	8.50	1.93	1.00	1.12	2.00	2.10	1/4-18 NPT
50,000 to 75,000	1.06	2.44	2.94	10.25	8.50	1.93	1.00	1.37	2.54	2.65	1/2-14 NPT



Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
699 to 707 ohm

Input Resistance:
686 to 714 ohm

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Compensated:
14 °F to 104 °F/-10 °C to 40 °C
Operating:
0 °F to 150 °F/-18 °C to 65 °C

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
35 ft

Cable Diameter:
20,000 lb: 0.200 in
40,000 to 75,000 lb: 0.305 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

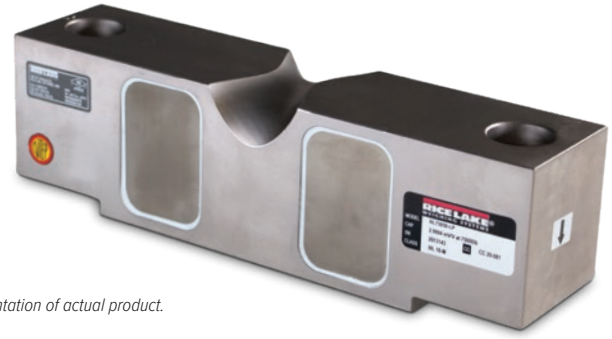
Approvals:
NTEP 98-143
cFMus

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RL75058-LP

Alloy Steel, Environmentally Sealed, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP67

Lightning Protection Built-in



Picture is a representation of actual product.

Approvals

NTEP, FM c US APPROVED

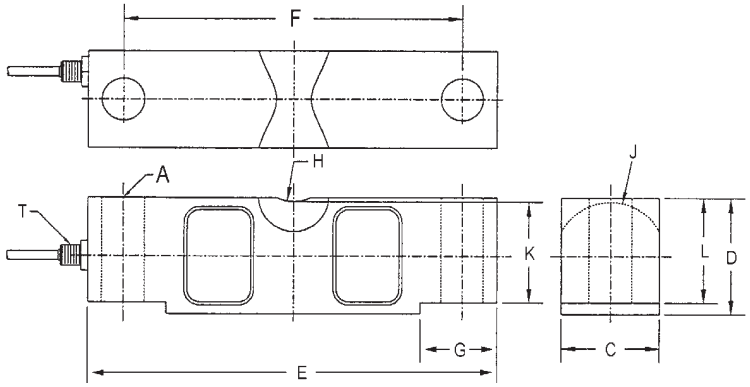
Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified 35 ft Cable			
20,000 lb	**197770**	8 lb	Consult
25,000 lb	**197771**	8 lb	Consult
40,000 lb	**197772**	13 lb	Consult
50,000 lb	**197773**	19 lb	Consult
60,000 lb	**197774**	19 lb	Consult
75,000 lb	**197775**	19 lb	Consult
100,000 lb	**197776**	40 lb	Consult
125,000 lb	**197777**	40 lb	Consult
Non-NTEP Certified 35 ft Cable			
10,000 lb	**197769**	8 lb	Consult
NTEP Certified 60 ft Cable			
50,000 lb	**197778**	20 lb	Consult
75,000 lb**	**197781**	20 lb	Consult
75,000 lb*	**197782**	20 lb	Consult
125,000 lb	**197779**	40 lb	Consult
NTEP Certified 100 ft Cable			
75,000 lb	**197780**	22 lb	Consult

**Stainless steel overbraid cable*
***Used in Rice Lake truck scales*

Dimensions

Rated Capacity	A	C	D	E	F	G	H	J	K	L	T
lb/in											
10,000 to 25,000	0.68	1.69	1.94	7.75	6.50	1.38	0.75	0.90	1.63	1.70	1/4-18 NPT
40,000	0.81	1.94	2.44	10.25	8.50	1.93	1.00	1.12	2.00	2.10	1/4-18 NPT
50,000 to 75,000	1.06	2.44	2.94	10.25	8.50	1.93	1.00	1.37	2.54	2.65	1/2-14 NPT
100,000 to 125,000	1.62	2.90	3.86	15.25	12.75	3.13	1.50	1.80	3.30	3.43	1/2-14 NPT



Interchangeable Products

VPG® SENSORTRONICS®
65058A

VPG® CELTRON®
CLB

ARTECH®
70210

ARTECH®
70310

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL2100HE

RICE LAKE WEIGHING SYSTEMS
MVS

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
770 (± 10) ohm

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
35 ft
60 ft
100 ft

Cable Diameter:
10,000 to 25,000 lb: 0.200 in
40,000 to 125,000 lb: 0.305 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 20-081
cFMus

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DOUBLE-ENDED BEAM

RL75058S-LP

Stainless Steel, Hermetically Sealed, NTEP Certified1:10,000 Class IIIL Multiple Cell, IP68/69K

Lightning Protection Built-in



Picture is a representation of actual product.

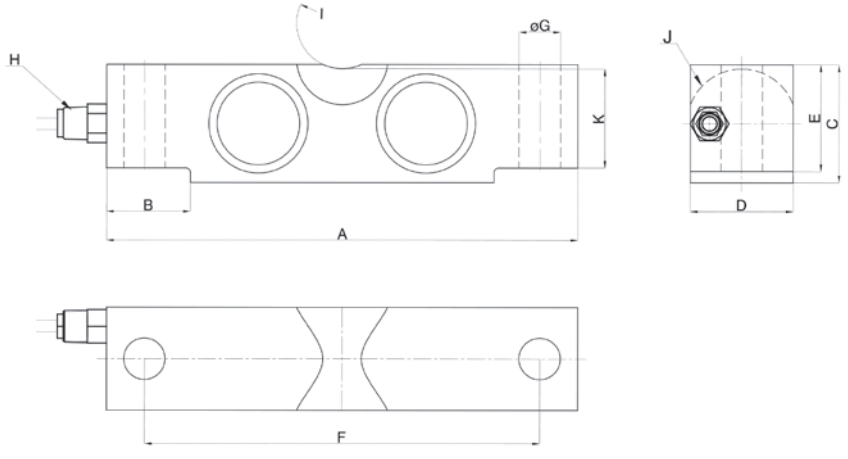
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified 35 ft Cable			
20,000 lb	**197797**	8 lb	Consult
25,000 lb	**197798**	8 lb	Consult
35,000 lb	**198431**	13 lb	Consult
40,000 lb	**198430**	13 lb	Consult
50,000 lb	**197799**	19 lb	Consult
60,000 lb	**197800**	19 lb	Consult
75,000 lb	**197801**	19 lb	Consult
100,000 lb	**197803**	40 lb	Consult
125,000 lb	**197804**	40 lb	Consult
Non-NTEP Certified 35 ft Cable			
10,000 lb	**197796**	8 lb	Consult
NTEP Certified 60 ft Cable			
75,000 lb	**197802**	20 lb	Consult
NTEP Certified 100 ft Cable			
75,000 lb	**225266**	20 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	ØG	H	I	J	K
lb/in											
10,000 to 25,000	7.75	1.38	1.94	1.69	1.70	6.50	0.68	1/4-18 NPT	R19.1	R22.9	1.63
40,000	10.25	1.93	2.44	1.94	2.10	8.50	0.81	1/4-18 NPT	R25.4	R28.5	2.00
35,000 to 75,000	10.25	1.93	2.94	2.44	2.65	8.50	1.06	1/2-14 NPT	R25.4	R34.8	2.54
100,000 to 125,000	15.25	3.13	3.86	2.90	3.43	12.75	1.62	1/2-14 NPT	R38.1	R45.7	3.30



Interchangeable Products

VPG® SENSORTRONICS®
65058S

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL2100HE

RICE LAKE WEIGHING SYSTEMS
MVS

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 7) ohm

Input Resistance:
700 (± 14) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP68/IP69K

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
35 ft
60 ft

Cable Diameter:
10,000 to 25,000 lb: 0.200 in
35,000 to 125,000 lb: 0.305 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 20-081
cFMus

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RL75060S

Limited Stock Available

Stainless Steel, Welded Seal, NTEP Certified 1:5,000 III/1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product.

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
RL2100HE

RICE LAKE WEIGHING SYSTEMS
MVS

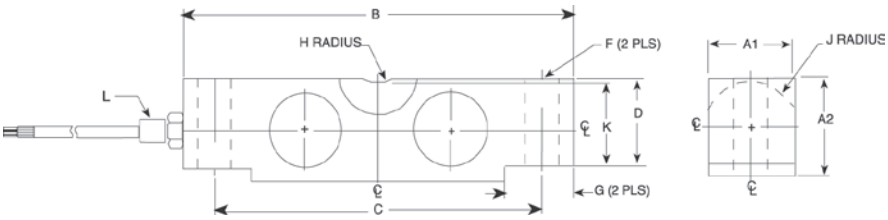
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
35 ft Cable			
100,000 lb	**50564**	19 lb	Consult
60 ft Cable			
25,000 lb	**157931**	6 lb	Consult

Dimensions

Rated Capacity	F	A1	A2	B	C	G	H	J	K	D	L
lb/in											
25,000	0.68	1.69	1.94	7.75	6.50	1.38	0.75	0.90	1.63	1.70	1/4-18 NPT
100,000	1.06	2.44	3.44	10.25	8.50	1.93	1.00	1.37	2.54	2.65	1/2-14 NPT



Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
699 to 707 ohm

Input Resistance:
686 to 714 ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
1,000 megohm

Cable Length:
35 ft
60 ft

Cable Diameter:
25,000 lb: 0.200 in
100,000 lb: 0.305 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 96-027
cFMus

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DOUBLE-ENDED BEAM

RL75223

Alloy Steel, Welded Seal, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product.

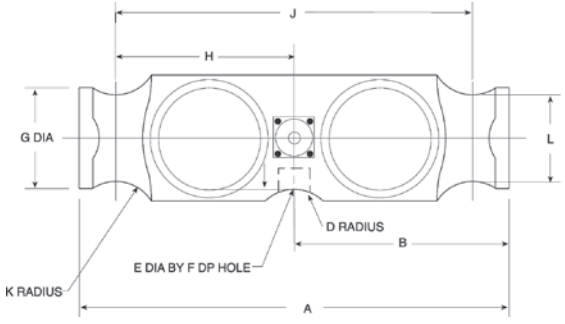
Approvals

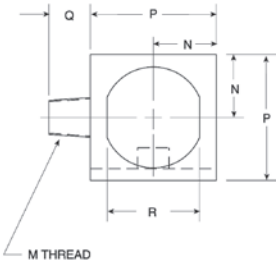
Order Information

Load Rating	Part #	Est. Weight	Price
40 ft Cable			
50,000 lb	**21611**	20 lb	Consult
65,000 lb	**21612**	20 lb	Consult
100,000 lb	**21613**	20 lb	Consult
60 ft Cable			
50,000 lb	**107583**	20 lb	Consult

Dimensions

Rated Capacity	A	B	D	E	F	G	H	J	K	L	M	N	P	Q	R
lb/in															
50,000 to 65,000	10.25	5.12	1.00	0.75	0.78	2.40	4.25	8.50	1.00	2.06	1/2-14 NPT	1.50	3.00	1.03	2.20
100,000	10.25	5.12	1.00	—	—	2.40	4.25	8.50	1.00	2.06	1/2-14 NPT	1.50	3.00	1.03	2.20





Interchangeable Products

VPG® REVERE
5223

VPG® SENSORTRONICS®
65040A-XX-1127W

ARTECH®
80210

THURMAN®
TSC 800

UNIBRIDGE®
DL9000

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
Translink™

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
699 to 707 ohm

Input Resistance:
686 to 714 ohm

Material/Finish:
High-alloy steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5-10 VDC (15 V maximum)

Combined Error:
0.03% full scale

Non-repeatability:
0.01% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
50,000 lb: 0.018 in
65,000 lb: 0.022 in
100,000 lb: 0.034 in

Cable Length:
40 ft
60 ft

Cable Diameter:
0.305 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 97-126
cFMus

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RLDB50000S

Stainless Steel, Welded Seal, NTEP Certified 1:10,000 IIIL Multiple Cell, IP67



Picture is a representation of actual product.

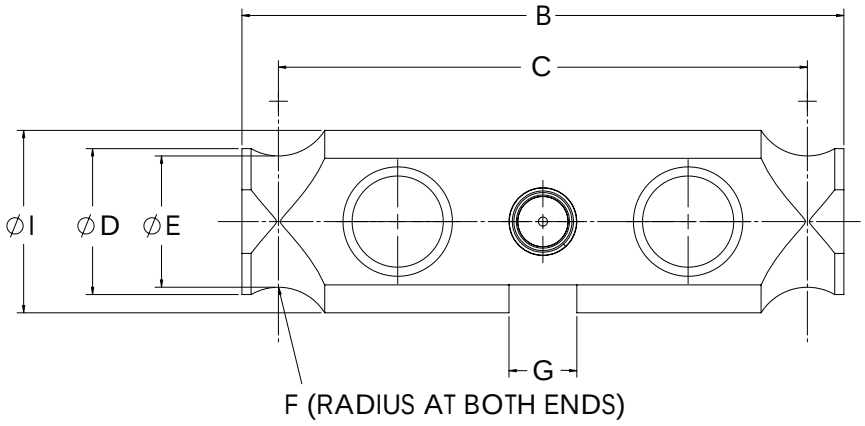
Approvals

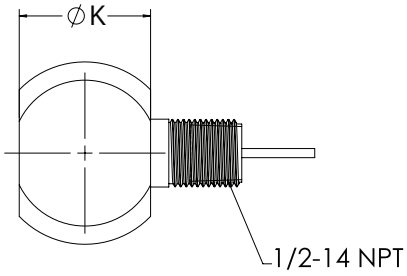
Order Information

Load Rating	Part #	Est. Weight	Price
50,000 lb	**91765**	10 lb	Consult

Dimensions

Rated Capacity	B	C	D	E	F	G	K	I
lb/in								
50,000	8.25	7.25	2.00	1.76	0.75	0.93	1.80	2.50





Interchangeable Products

CARDINAL®
DB50000S

Specifications

Full Scale Output:
2.0 (± 0.1%) mV/V

Output Resistance:
699 to 707 ohm

Input Resistance:
686 to 714 ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F(-18 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.03% full scale

Non-repeatability:
0.01% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
0.01 in

Cable Length:
35 ft

Cable Diameter:
0.305 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
White +Signal
Green –Signal

Warranty:
Two-year limited

Approvals:
NTEP 92-018
cFMus

DOUBLE-ENDED BEAM

RL75040

Alloy Steel, Environmentally Sealed, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product.

Approvals

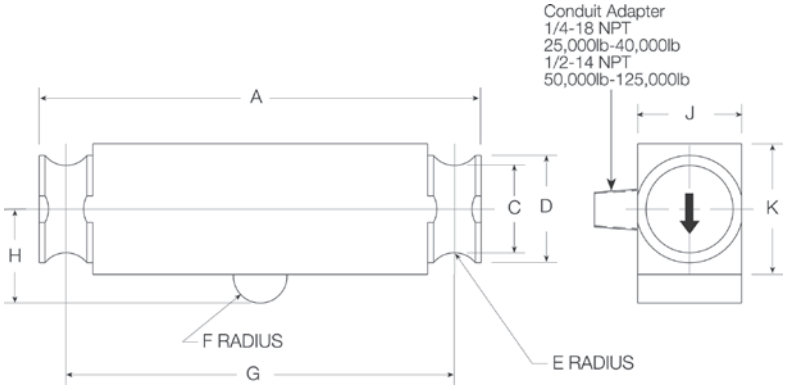
Order Information

Load Rating	Part #	Est. Weight	Price
35 ft Cable			
25,000 lb	**21614**	11 lb	Consult
40,000 lb	**21615**	12 lb	Consult
50,000 lb LE	**21616**	17 lb	Consult
60,000 lb LE	**21617**	17 lb	Consult
75,000 lb	**21618**	17 lb	Consult
100,000 lb	**21619**	40 lb	Consult
125,000 lb	**21620**	40 lb	Consult
40 ft Cable			
50,000 lb SE	**87253**	11 lb	Consult
60,000 lb SE	**53593**	11 lb	Consult
50 ft Cable			
50,000 lb LE	**21621**	18 lb	Consult
60,000 lb LE	**21622**	18 lb	Consult
75,000 lb	**40951**	18 lb	Consult

SE=small envelope; LE=large envelope

Dimensions

Rated Capacity	A	C	D	E	F	G	H	J	K
lb/in									
25,000 to 60,000 SE	8.25	1.63	2.00	0.50	0.50	7.25	1.75	1.94	2.44
50,000 LE to 75,000	11.50	1.70	2.20	0.75	1.00	10.00	2.00	1.94	2.94
100,000 to 125,000	14.50	2.44	3.20	1.00	1.50	12.50	2.75	2.90	3.86



Interchangeable Products

VPG® SENSORTRONICS®
65040A

ARTECH®
80310

THURMAN®
TSC 840

SENTRAN
WD1

ANYLOAD
102TH

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
Translink™

Specifications

Full Scale Output:
3.0 mV/V

Output Resistance:
700 (± 5) ohm

Input Resistance:
770 (± 10) ohm
pn 87253 and 53593: 686 to 714 ohms

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.03% full scale

Insulation Resistance:
1,000 megohm

Cable Length:
35 ft
40 ft
50 ft

Cable Diameter:
25,000 lb: 0.200 in
40,000 to 75,000 lb: 0.305 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 00-027
cFMus

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RLCSP1

Stainless Steel, Welded Seal, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product.

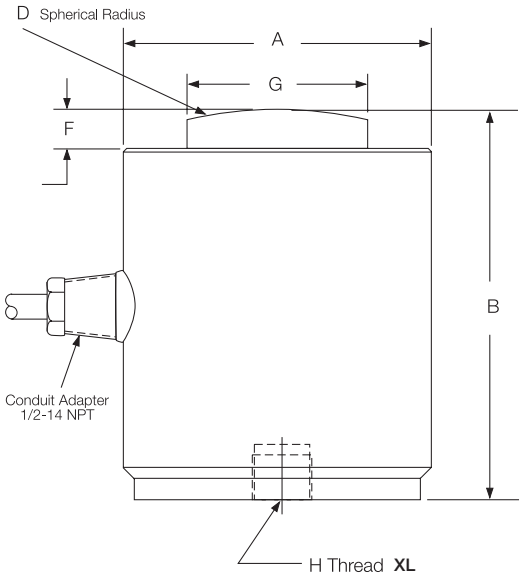
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
35 ft Cable			
25,000 lb	**32702**	7 lb	Consult
50,000 lb	**32701**	7 lb	Consult
100,000 lb	**32700**	15 lb	Consult
200,000 lb	**32699**	28 lb	Consult
80 ft Cable			
200,000 lb	**197788**	30 lb	Consult

Dimensions

Rated Capacity	A	B	D	F	G	H	L-DEPTH
lb/in							
25,000 to 50,000	3.00	3.25	6.00	0.40	1.25	1/2-20 UNF	0.31
100,000	4.00	5.00	6.00	0.51	2.31	3/4-16 UNF	0.56
200,000	6.00	7.25	17.00	1.04	3.13	3/4-16 UNF	0.75



Interchangeable Products

VPG® REVERE
CSP

VPG® SENSORTRONICS®
65088-1000

VPG® REVERE
692B

HOWE RICHARDSON®
244699-000X

STREETER AMET®
3760XXX

Weigh Module Available

RICE LAKE WEIGHING SYSTEMS
MagnaMount™

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
475.2 to 484.8 ohm

Input Resistance:
445.5 to 454.5 ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.03% full scale

Non-repeatability:
0.01% full scale

Insulation Resistance:
1,000 megohm

Deflection at Capacity:
25,000 to 50,000 lb: 0.003 in
100,000 to 125,000 lb: 0.006 in

Cable Length:
35 ft
80 ft

Cable Diameter:
0.305 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Orange Shield

Warranty:
Two-year limited

Approvals:
NTEP 95-140

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COMPRESSION CANISTER

RL8C2P1SST

Stainless Steel, Hermetically Sealed, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP68



Picture is a representation of actual product.

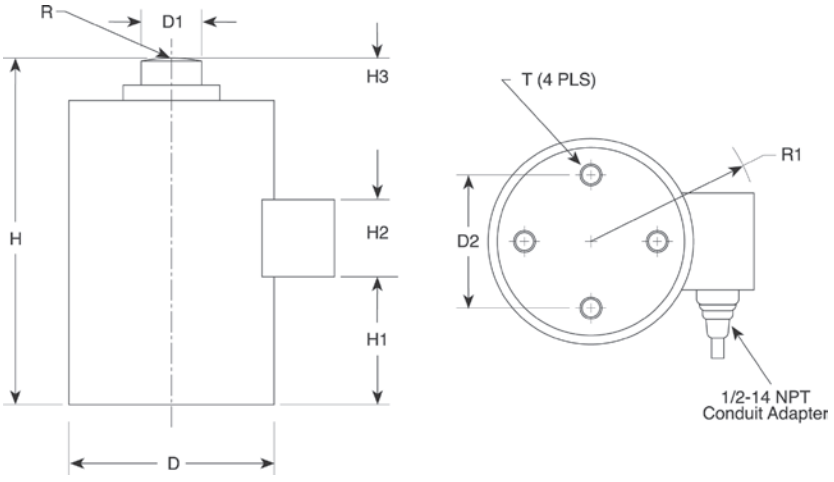
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
50,000 lb	**34855**	20 lb	Consult
100,000 lb	**34856**	36 lb	Consult
200,000 lb	**34857**	75 lb	Consult

Dimensions

Rated Capacity lb/in	D	D1	D2	H	H1	H2	H3	R	R1	T
50,000	4.50	1.25	2.38	7.50	1.17	0.75	0.75	8.00	3.75	3/8-24 UNF × .63 DP
100,000	5.75	1.75	4.00	9.13	2.00	0.87	1.05	12.00	4.05	1/2-20 UNF × .75 DP
200,000	7.50	2.50	5.50	11.63	2.93	0.97	0.97	12.00	5.11	5/8-18 UNF × 25.4 DP



Interchangeable Products

VPG® REVERE

792

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
350 (±3.5) ohm

Input Resistance:
350 (±3.5) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP68

Safe Overload:
150% full scale

Rated Excitation:
10 VDC (15 V maximum)

Combined Error:
0.03% full scale

Non-repeatability:
0.01% full scale

Insulation Resistance:
>1,000 megohm

Deflection at Capacity:
50,000 lb: 0.004 in
100,000 lb: 0.006 in
200,000 lb: 0.009 in

Cable Length:
35 ft

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Orange Shield

Warranty:
Two-year limited

Approvals:
NTEP 92-218
cFMus

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RL82025

Stainless Steel, Hermetically Sealed, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP69K

NEW



Picture is a representation of actual product.

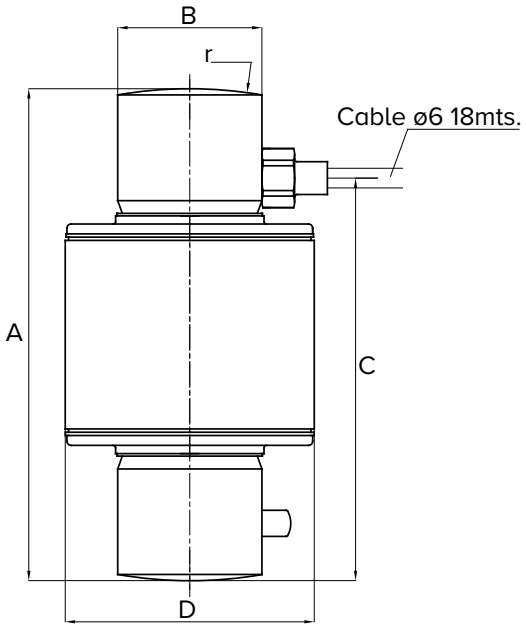
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
30 t	**226612**	8 lb	Consult
50 t	**226613**	8 lb	Consult
Load Cup			
30 t	**226969**	7.50 lb	Consult
50 t	**226970**	7.94 lb	Consult

Dimensions

Rated Capacity	A	ø B	C	D	r
t/mm					
15	150.0	44.0	123.0	76.0	130.0
20	150.0	44.0	123.0	76.0	130.0
25	150.0	44.0	123.0	76.0	150.0
30	150.0	44.0	123.0	76.0	160.0
40	150.0	44.0	123.0	76.0	180.0
50	150.0	44.0	123.0	76.0	180.0



Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
705 (± 5) ohm

Input Resistance:
800 (± 5) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealer, IP69K

Safe Overload:
120% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.013% full scale

Non-repeatability:
0.01% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
0.621 mm

Cable Length:
18 m overbraid cable

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Yellow -Sense

Warranty:
Two-year limited

Approvals:
NTEP 24-109

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ROCKER COLUMN

RL82021

Stainless Steel, Hermetically Sealed, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP69K



Picture is a representation of actual product.

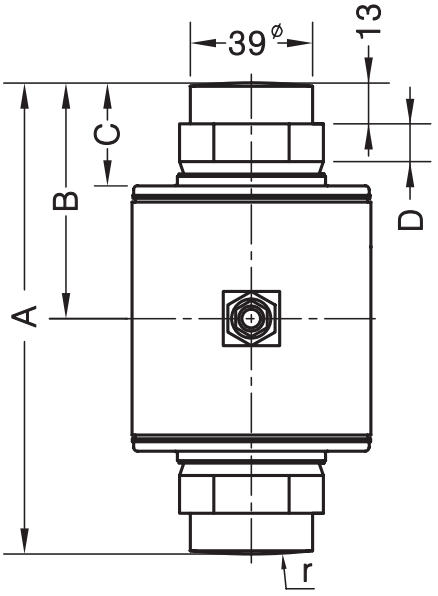
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
30 t	**221271**	8 lb	Consult
40 t	**207495**	8 lb	Consult
Load Cup Kits			
30 t	**223356**	7.50 lb	Consult
40 t	**223357**	7.94 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	Ball r
t/in					
30	5.51	2.76	1.10	0.28	7.09
40	5.91	2.95	1.30	0.47	7.87



Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
1,005 (± 5) ohm

Input Resistance:
1,150 (± 50) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealer, IP69K

Safe Overload:
120% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.013% full scale

Non-repeatability:
0.01% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
0.621 mm

Cable Length:
18 m overbraid cable

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Yellow -Sense

Warranty:
Two-year limited

Approvals:
NTEP 21-071

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RLSCA-50K

Stainless Steel, Welded Seal, NTEP Certified 1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product.

Approvals

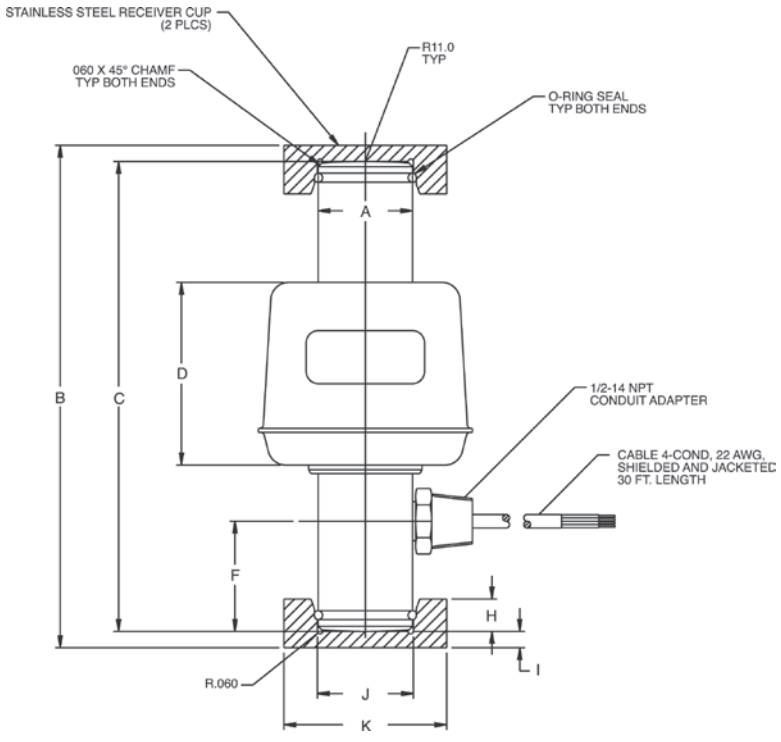
Order Information

Load Rating	Part #	Est. Weight	Price
50,000 lb*	**68918**	7 lb	Consult
Replacement Parts			
Replacement load cup set upper and lower included	**85433**	1 lb	Consult
Replacement O-ring	**92988**	1 lb	Consult/each

**Load cell supplied with load cups*

Dimensions

Rated Capacity	A	B	C	D	F	H	I	J	K
lb/in									
50,000	1.46	7.75	7.25	2.82	1.70	0.50	0.25	1.48	2.50



Interchangeable Products

CARDINAL®

SCA-50K

Specifications

Full Scale Output:
2 mV/V nominal

Output Resistance:
1,050 (± 10) ohm

Input Resistance:
1,100 to 1,500 ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.025% full scale

Non-repeatability:
0.01% full scale

Insulation Resistance:
1,000 megohm

Cable Length:
30 ft

Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
NTEP 01-073
cFMus

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ROCKER COLUMN

RL70510/RL80453

Stainless Steel, Hermetically Sealed, NTEP Certified 1:10,000 Class III L, IP69K



Picture is a representation of actual product.

Approvals

Order Information: RL70510

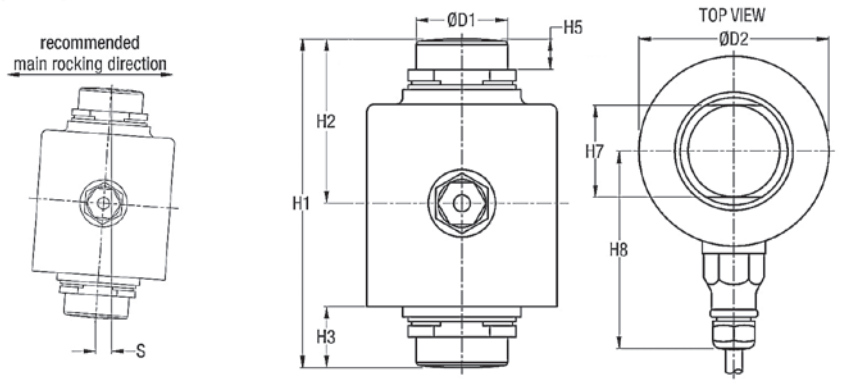
Load Rating	Part #	Est. Weight	Price
30 t	**169363**	6 lb	Consult
Upper load cup	**109332**	4 lb	Consult
Lower load cup	**109331**	4 lb	Consult

Order Information: RL80453

Load Rating	Part #	Est. Weight	Price
100,000 lb	**169365**	6 lb	Consult
Upper load cup	**109332**	4 lb	Consult
Lower load cup	**109331**	4 lb	Consult

Dimensions

Rated Capacity	H1	H2	H3	H5	H7	H8	D1	D2
t/in								
30	5.51	2.76	1.02	0.51	1.54	3.32	1.54	3.18
lb/in								
100,000	5.91	2.95	1.30	0.51	1.54	3.32	1.54	3.18



Interchangeable Products

FAIRBANKS®
70510 ..... *LCF HR 4020-2A*

FAIRBANKS
80453 ..... *LCF HR 4020-21*

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
1,000 (± 2) ohm

Input Resistance:
1,150 (± 50) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
200% full scale

Rated Excitation:
5 to 10 VDC (15 V max)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
15 ft

Cable Diameter:
0.200 in
Stainless steel overbraid cable

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

Warranty:
Two-year limited

Approvals:
NTEP 15-057

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RL75114-50K

Stainless Steel, Welded Seal, NTEP Certified 1:10,000 Class III L, IP67



Picture is a representation of actual product.

Approvals

Interchangeable Products

FAIRBANKS®

64166..... *LCF HR 4020-2*

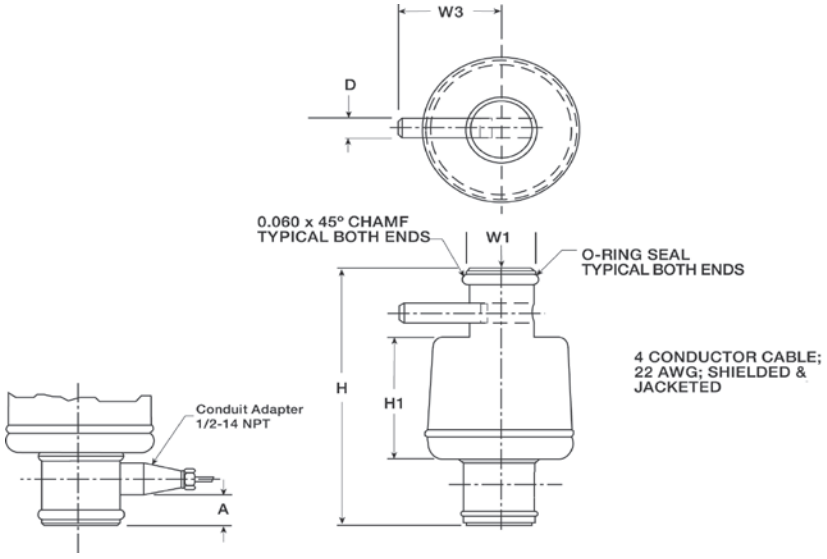
Order Information

Load Rating	Part #	Est. Weight	Price
50,000 lb LE	**88074**	6 lb	Consult
Replacement Parts			
Replacement O-ring	**92988**	1lb	Consult
Spring pin	**116181**	1 lb	Consult

LE=Large envelope
Not interchangeable with Sensortronics 65114 - different mV/V

Dimensions

Rated Capacity	A	D	H	H1	W1	W3
lb/in						
50,000 LE	0.87	0.38	7.56	2.82	1.46	2.18



Specifications

Full Scale Output:
1.8 mV/V nominal

Output Resistance:
1,000 (± 10) ohm

Input Resistance:
1,000 ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Welded-seal, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.025% full scale

Non-repeatability:
0.01% full scale

Insulation Resistance:
1,000 megohm

Cable Length:
30 ft

Cable Diameter:
0.200 in overbraid cable

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

Warranty:
Two-year limited

Approvals:
NTEP 06-022
cFMus

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COMPRESSION DISK

RL90000

Alloy Steel, Environmentally Sealed, IP67



25K



5K

Picture is a representation of actual product.

Approvals

FM APPROVED

Order Information

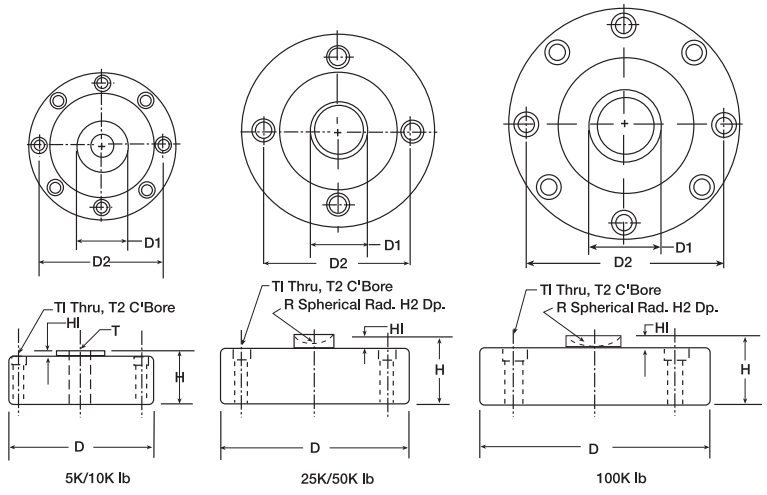
Load Rating	Part #	Est. Weight	Price
5,000 lb*	**33061**	6 lb	Consult
10,000 lb*	**33062**	6 lb	Consult
25,000 lb	**33063**	9 lb	Consult
50,000 lb	**33064**	9 lb	Consult
100,000 lb	**33065**	13 lb	Consult
Load Cup**	**33616**		Consult

**5,000 lb and 10,000 lb models can be used in compression and tension load applications.*

***Load cup, PN 33616, is required for compression applications on 5,000 lb and 10,000 lb capacity load cells.*

Dimensions

Rated Capacity	T	R	D	D1	D2	H	H1	H2	T1	T2
lb/in										
5,000 to 10,000	5/8-18 UNF-3B	—	4.12	1.26	3.50	1.37	0.12	---	0.28	0.406 x 0.283 DP
25,000 to 50,000	—	0.875	4.75	1.53	4.00	2.12	0.50	0.30	0.34	0.508 x 0.38 DP
100,000	—	0.875	5.50	1.98	4.60	2.25	0.25	0.30	0.41	0.626 x 0.4 DP



Interchangeable Products

VPG® CELTRON®

LCD

Specifications

Full Scale Output:
4.0 mV/V

Output Resistance:
5,000 to 50,000 lb: 350 (± 3) ohm
100,000 lb: 700 (± 5) ohm

Input Resistance:
5,000 to 50,000 lb: 385 (± 5) ohm
100,000 lb: 770 (± 70) ohm

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
15 VDC (15 V maximum)

Nonlinearity:
0.05% full scale

Hysteresis:
0.02% full scale

Insulation Resistance:
2,000 megohm

Cable Length:
50 ft

Cable Diameter:
5,000 to 25,000 lb: 0.200 in
50,000 to 100,000 lb: 0.305 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

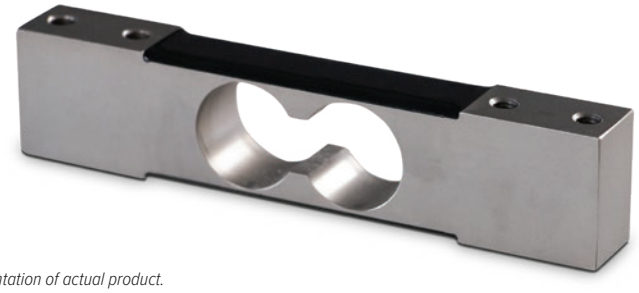
Warranty:
Two-year limited

Approvals:
cFMus

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RLPC3SS

Stainless Steel, Environmentally Sealed, NTEP Certified 1:3,000 Class III Single Cell, IP67



Picture is a representation of actual product.

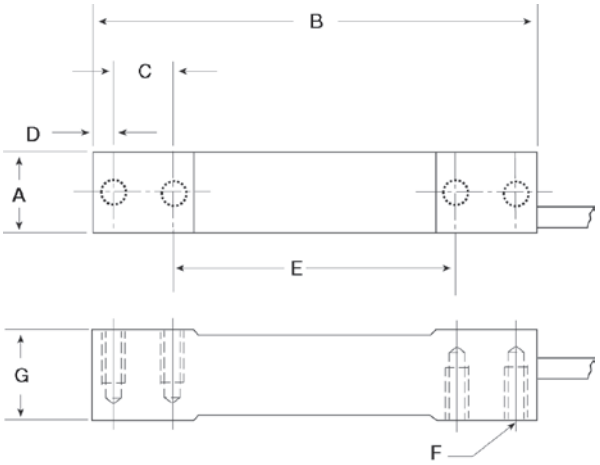
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
7 kg	**205274**	2 lb	Consult
10 kg	**205275**	2 lb	Consult
30 kg	**205276**	2 lb	Consult
60 kg	**205277**	2 lb	Consult
100 kg	**205278**	2 lb	Consult
150 kg	**205279**	2 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G
kg/mm							
7 to 10	19.0	139.8	19.0	6.6	88.7	M6 × 1.0	30.0
30 to 60	23.8	139.8	19.0	6.6	88.7	M6 × 1.0	30.0
100 to 150	30.7	139.7	22.4	6.6	79.3	3/8-16 UNC	30.0



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL1380

FLINTEC®
PC3

HBK®
PWS

Specifications

Full Scale Output:
2 mV/V

Output Resistance:
350 (± 10) ohm

Input Resistance:
385 (± 15) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
10 ft

Cable Diameter:
0.140 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black -Excitation
White +Signal
Red -Signal
Yellow Shield

Max Platform Size:
7 to 30 kg: 350 × 350 mm
60 to 150 kg: 450 × 450 mm

Warranty:
One-year limited

Approvals:
NTEP 21-017
OIML R60/2017-A-NL1-21.17

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SINGLE POINT

RLPC4SS-HE

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP69K



Picture is a representation of actual product.

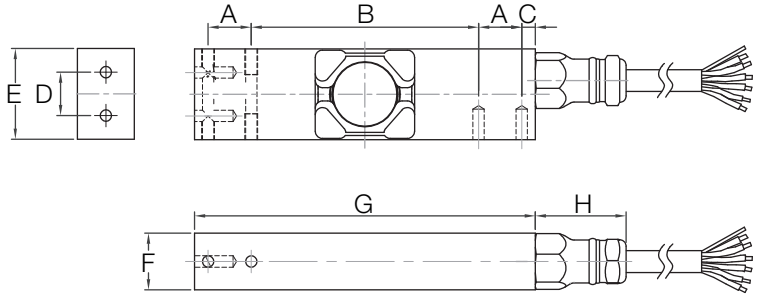
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
10 kg	**205270**	3 lb	Consult
20 kg	**205271**	3 lb	Consult
50 kg	**205272**	3 lb	Consult
100 kg	**205273**	3 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I
kg/mm									
10 to 100	19.0	100.0	6.0	19.1	40.0	25.0	150.0	40.0	M4 × 6



Interchangeable Products

FLINTEC®
PC4

HBK®
PW15AH*

**350 Ohm*

Specifications

Full Scale Output:
2 mV/V

Output Resistance:
960 (± 50) ohm

Input Resistance:
1100 (± 50) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.02% full scale

Insulation Resistance:
> 5,000 megohm

Cable Length:
10 ft

Cable Color Code:
Green +Excitation
Black -Excitation
White +Signal
Red -Signal
Blue +Sense
Brown -Sense
Yellow Shield

Max Platform Size:
500 × 400 mm

Warranty:
One-year limited

Approvals:
NTEP 21-016
OIML R60/2017-A-NL1-21.18

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RLPC6

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP69K



Picture is a representation of actual product.

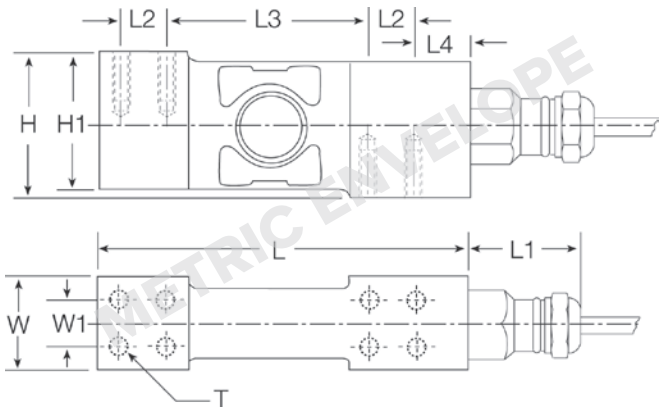
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
10 kg	**87027**	3 lb	Consult
20 kg	**87028**	3 lb	Consult
50 kg	**87029**	3 lb	Consult
100 kg	**87030**	3 lb	Consult
200 kg	**87031**	3 lb	Consult

Dimensions

Rated Capacity kg/mm	H	H1	L	L1	L2	L3	L4	W	W1	T
10 to 200	48.0	45.5	123.0	41.0	15.2	67.6	17.8	30.1	15.2	8 x M6/15 DP



METRIC ENVELOPE

Interchangeable Products

FLINTEC®
PC6

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
960 (± 50) ohm, nominal

Input Resistance:
1,100 (± 50) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
200% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
3 m

Cable Diameter:
5 mm
Polyurethane jacket

Deflection at Capacity:
0.15 to 0.25 mm

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

Max Platform Size:
610 × 610 mm

Warranty:
Two-year limited

Approvals:
NTEP 06-011
FM

SINGLE POINT

RLPWM15HE

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP69K



Picture is a representation of actual product.

Approvals

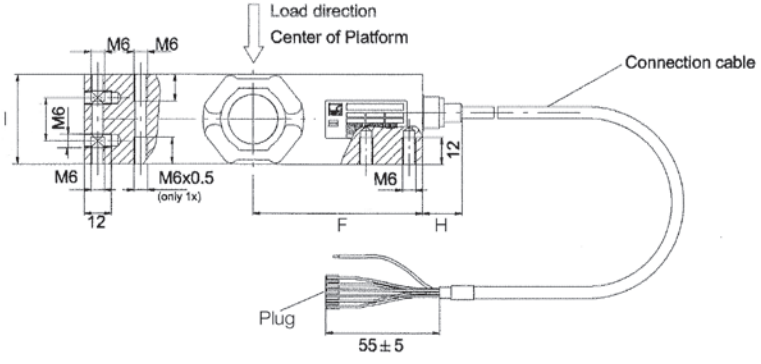
NTEP FM APPROVED

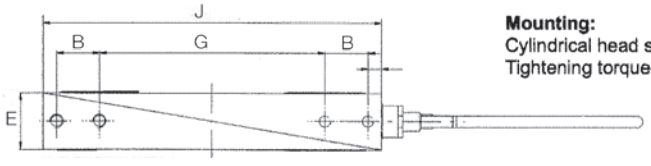
Order Information

Load Rating	Part #	Est. Weight	Price
10 ft Cable			
10 kg	**108685**	3 lb	Consult
20 kg	**108686**	3 lb	Consult
50 kg	**108687**	3 lb	Consult
100 kg	**108688**	3 lb	Consult
2.83 ft Cable			
10 kg	**107174**	3 lb	Consult
20 kg	**107175**	3 lb	Consult
50 kg	**107176**	3 lb	Consult
100 kg	**107177**	3 lb	Consult

Dimensions

Rated Capacity	B	E	F	G	H	I	J
kg/mm							
10 to 100	19.0	25.0	75.0	100.0	17.5	40.0	150.0





Mounting:
Cylindrical head screw M6-10.9
Tightening torque: 14 N·m

Interchangeable Products

HBK®
PW15AH

Specifications

Full Scale Output:
2.0 mV/V
Output Resistance:
350 (± 10) ohm
Input Resistance:
380 (± 15) ohm
Material/Finish:
Stainless steel
Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)
Seal Type:
Hermetically sealed, IP69K
Safe Overload:
150% full scale
Rated Excitation:
5 to 10 VDC (15 V maximum)
Combined Error:
0.02% full scale
Insulation Resistance:
1,000 megohm
Cable Length:
10 ft
2.83 ft
Cable Diameter:
0.212 in PVC jacket
Cable Color Code:
Blue +Excitation
Black –Excitation
White +Signal
Red –Signal
Green +Sense
Grey –Sense
Max Platform Size:
500 × 400 mm
Warranty:
Two-year limited
Approvals:
NTEP 09-015
FM

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RLPWM15

Stainless Steel, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP67



Picture is a representation of actual product.

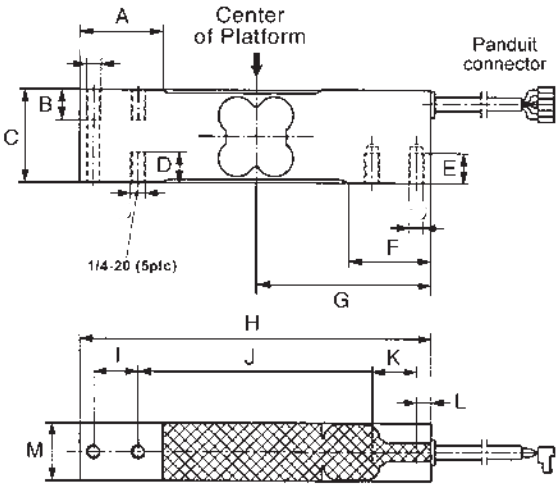
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
10 kg	**119904**	1 lb	Consult
15 kg	**119912**	1 lb	Consult
20 kg	**119905**	1 lb	Consult
50 kg	**119908**	1 lb	Consult
75 kg	**119909**	1 lb	Consult
100 kg	**119910**	1 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	T
kg/mm														
10 to 100	35.0	13.0	40.0	13.0	13.0	35.0	75.0	150.0	19.0	100.0	19.0	6.2	25.0	1/4-20 UNC



Interchangeable Products

HBK®
PW15

VPG® TEDEA-HUNTLEIGH®
1142

Specifications

Full Scale Output:
2.0 mV/V

Bridge Resistance:
350 ohm, nominal

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
1,000 megohm

Cable Length:
10 ft

Cable Diameter:
0.190 in PVC jacket

Cable Color Code:
Blue +Excitation
Black –Excitation
White +Signal
Red –Signal
Green +Sense
Grey –Sense

Max Platform Size:
15 × 15 in

Warranty:
Two-year limited

Approvals:
NTEP 11-038
FM

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SINGLE POINT

RLPCBC-60

Stainless Steel, Hermetically Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP69K



Picture is a representation of actual product.

Approvals

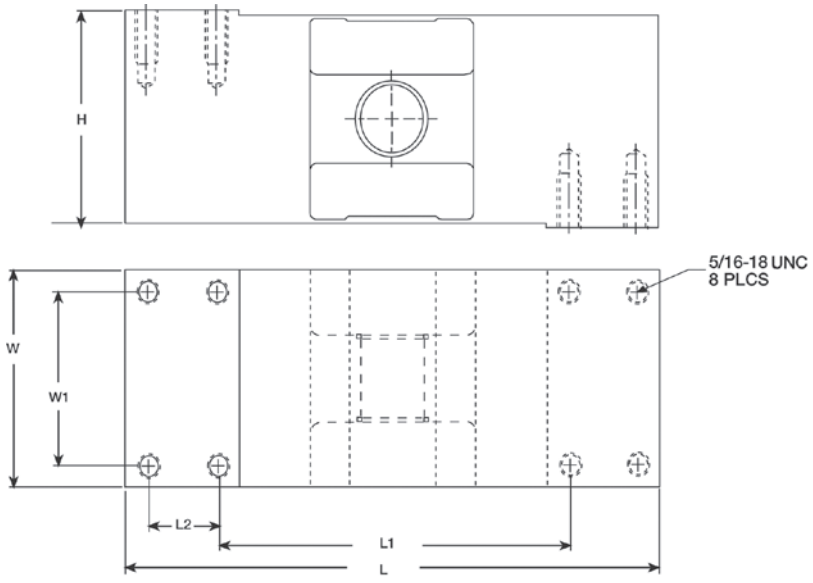
NTEP FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
10 ft Cables			
50 kg	**87022**	12 lb	Consult
100 kg	**87023**	12 lb	Consult
250 kg	**87024**	13 lb	Consult
500 kg	**87025**	13 lb	Consult
1,000 kg	**87026**	15 lb	Consult
20 ft Cables			
1,000 kg	**227092**	15 lb	Consult

Dimensions

Rated Capacity	L	L1	L2	W	W1	H
kg/mm						
50 to 1,000	190.5	107.0	35.0	73.7	50.0	73.7



Specifications

Full Scale Output:
2 mV/V

Output Resistance:
960 (± 50) ohm

Input Resistance:
1,100 (± 50) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Hermetically sealed, IP69K

Safe Overload:
200% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.020% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
10 ft
PN 227092: 20 ft

Cable Diameter:
0.196 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Blue +Sense
Brown –Sense
Yellow Shield (shield connected to element)

Max Platform Size:
24 × 24 in

Warranty:
Two-year limited

Approvals:
NTEP 07-094
FM

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RL1521A

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP66



Picture is a representation of actual product.

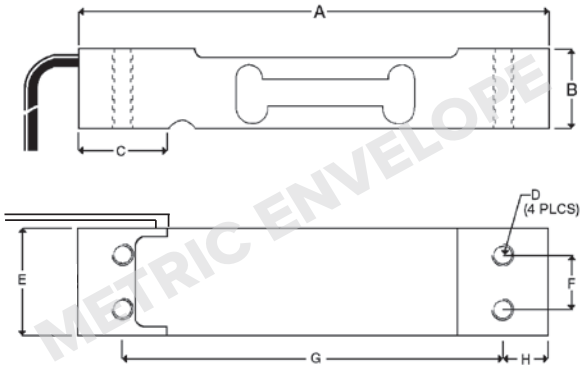
Approvals

Order Information:

Load Rating	Part #	Est. Weight	Price
1.50 ft Cables			
3 kg	**50620**	1 lb	Consult
5 kg	**50619**	1 lb	Consult
7 kg	**50621**	1 lb	Consult
10 kg	**50622**	1 lb	Consult
15 kg	**50623**	1 lb	Consult
20 kg	**50624**	1 lb	Consult
30 kg	**50625**	1 lb	Consult
35 kg	**50626**	1 lb	Consult
10 ft Cables			
3 kg	**132261**	3 lb	Consult
5 kg	**132262**	3 lb	Consult
7 kg	**132263**	3 lb	Consult
10 kg	**132264**	3 lb	Consult
15 kg	**132265**	3 lb	Consult
20 kg	**132266**	3 lb	Consult
30 kg	**132267**	3 lb	Consult
35 kg	**132268**	3 lb	Consult

Dimension

Rated Capacity	A	B	C	D	E	F	G	H
kg/mm								
3 to 7	130.0	22.0	25.0	M6 × 1.0	25.4	15.0	106.0	12.0
10 to 30	130.0	22.0	25.0	M6 × 1.0	30.0	15.0	106.0	12.0
35	130.0	22.0	25.0	M6 × 1.0	40.0	15.0	106.0	12.0



Interchangeable Products

VPG® CELTRON®
LPS except 3 kg

VPG® TEDEA-HUNTLEIGH®
1022

VPG® BLH®
C2G1

FAIRBANKS®
4900 Series Checkweighers

NMB®
C2G1

ARTECH®
61022

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
410 (± 15) ohm

Material/Finish:
Aluminum

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP66

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.03% full scale

Insulation Resistance:
2,000 megohm

Cable Length:
3 m
0.50 m

Cable Diameter:
3.5 mm PVC jacket

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal

Max Platform Size:
13.75 × 13.75 in

Warranty:
Two-year limited

Approvals:
NTEP 98-166
cFMus

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SINGLE POINT

RL1010

Aluminum, NTEP Certified 1:5,000 Class III Single Cell, Potted and Unpotted, IP65/IP67



Picture is a representation of actual product.

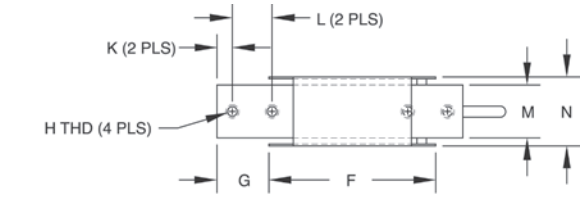
Approvals

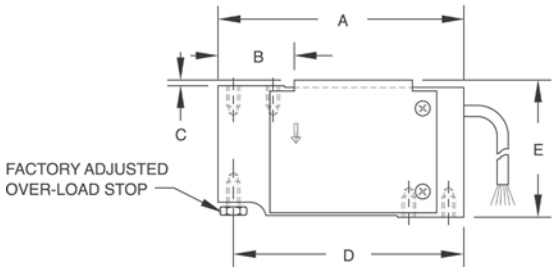
Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified, Potted			
10 kg	**50819**	2 lb	Consult
15 kg	**50820**	2 lb	Consult
20 kg	**50821**	2 lb	Consult
30 kg	**50822**	2 lb	Consult
50 kg	**50823**	2 lb	Consult
Non-NTEP Certified, Potted			
7 kg	**17529**	2 lb	Consult
10 kg	**17530**	2 lb	Consult
15 kg	**17531**	2 lb	$195.00
20 kg	**17532**	2 lb	Consult
30 kg	**17533**	2 lb	Consult
50 kg	**17534**	2 lb	Consult
90 kg	**17535**	2 lb	Consult
Non-NTEP Certified, Unpotted			
3 kg	**17527**	1 lb	Consult
5 kg	**17528**	1 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	K	L	M	N
kg/mm												
3 to 90	118.1	34.0	3.0	110.5	66.0	80.0	25.0	1/4-20 UNC × 13 DP	7.5	19.1	25.4	33.5





Interchangeable Products

VPG® TEDEA-HUNTLEIGH®

1010/1015

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
350 (± 3) ohm, nominal

Input Resistance:
415 (± 15) ohm

Material/Finish:
Anodized aluminum

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Potted: IP67
Unpotted: IP65

Safe Overload:
150% at center of loading point, full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
0.015 in

Cable Length:
Potted: 10 ft
Unpotted: 3 ft

Cable Diameter:
0.200 in PVC jacket

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

Max Platform Size:
15.75 × 15.75 in

Warranty:
Two-year limited

Approvals:
NTEP 00-062
cFMus

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RLSP4

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP66



Picture is a representation of actual product.

Approvals

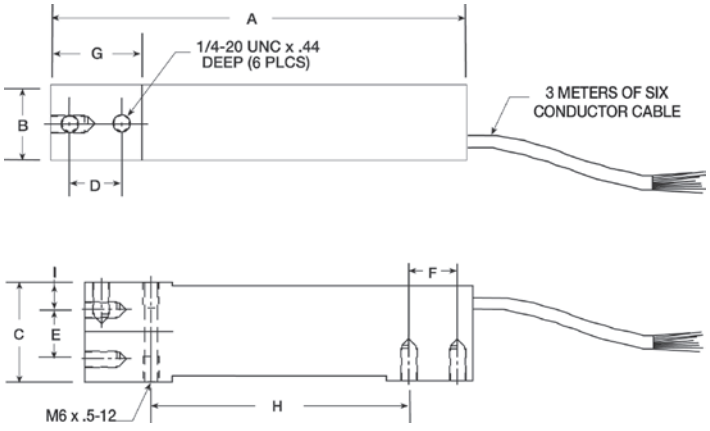
NTEP FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
7 kg	**91725**	2 lb	Consult
10 kg	**91726**	2 lb	Consult
15 kg	**91727**	2 lb	Consult
20 kg	**91728**	2 lb	Consult
30 kg	**91729**	2 lb	Consult
50 kg	**91730**	2 lb	Consult
75 kg	**91731**	2 lb	Consult
100 kg	**91732**	2 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I
kg/mm									
5 to 100	150.3	25.4	39.9	19.1	19.1	19.1	33.8	99.6	11.4



Interchangeable Products

HBK®
SP4M

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
350 ohm

Material/Finish:
Anodized aluminum

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP66

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
0.4 mm

Cable Length:
10 ft

Cable Diameter:
0.19 in PVC jacket

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense
Yellow Shield

Max Platform Size:
5 to 10 kg: 12 × 12 in
15 to 30 kg: 18 × 18 in
50 to 100 kg: 24 × 24 in

Warranty:
Two-year limited

Approvals:
NTEP 05-114
FM

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SINGLE POINT

RLPWM16

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP67

Limited Stock Available



Picture is a representation of actual product.

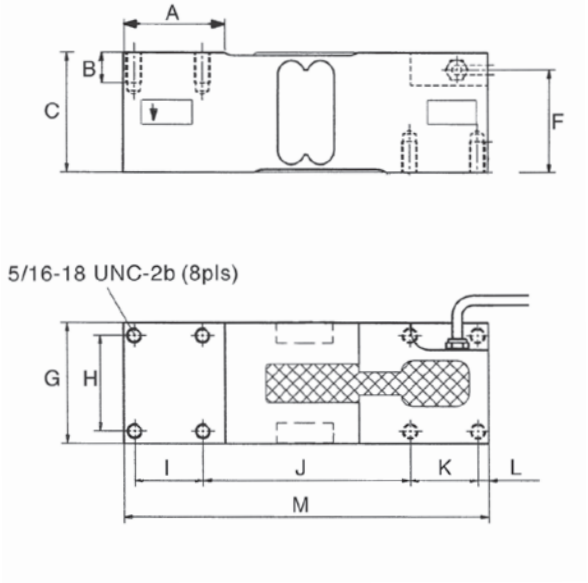
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
75 kg	**91686**	5 lb	Consult

Dimensions

Rated Capacity	A	B	C	F	G	H	I	J	K	L	M
kg/mm											
75	52.0	16.0	62.3	52.3	63.0	50.0	35.0	107.0	35.0	5.5	188.0



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL1260

VPG® TEDEA-HUNTLEIGH®
1260

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
300 to 500 ohm

Input Resistance:
300 to 500 ohm

Material/Finish:
Aluminum

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
1,000 megohm

Cable Length:
10 ft

Cable Diameter:
0.190 in PVC jacket

Deflection at Capacity
50 to 635 kg < 0.6 mm

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

Max Platform Size:
24 × 24 in

Warranty:
Two-year limited

Approvals:
NTEP 05-112
FM

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RL1042

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP66



Picture is a representation of actual product.

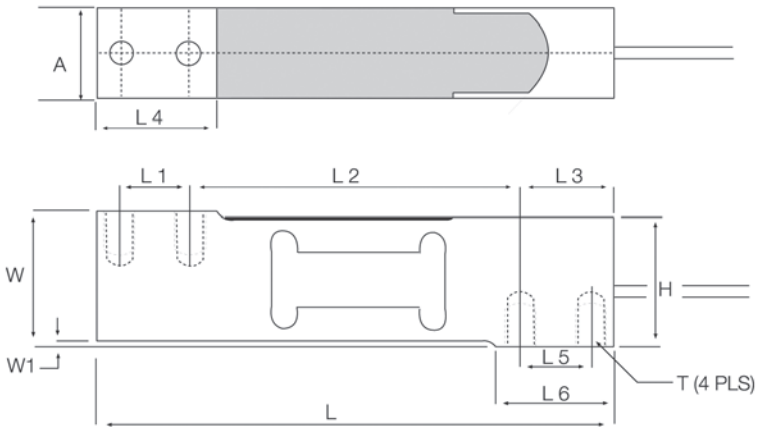
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
1 kg	**40955**	1 lb	Consult

Dimensions

Rated Capacity	A	H	L	L1	L2	L3	L4	L5	L6	W	W1	T
kg/mm												
1	20.0	39.0	150.0	19.0	100.0	25.0	34.0	19.0	34.0	40.0	1.0	1/4-20 UNC



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RLSP4

VPG® TEDEA-HUNTLEIGH®
1042

HBK®
SP4M

FLINTEC®
PC 42

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
415 (± 15) ohm

Material/Finish:
Aluminum

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP66

Safe Overload:
150% full scale
Over-center loading point

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
2,000 megohm

Deflection at Capacity:
0.015 in

Cable Length:
10 ft

Cable Diameter:
0.200 in PVC jacket

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

Max Platform Size:
16 × 16 in

Warranty:
Two-year limited

Approvals:
NTEP 97-138
FM

SINGLE POINT

RL1040

Aluminum, NTEP Certified 1:5,000 Class III Single Cell, Potted and Unpotted, IP65/IP67



Picture is a representation of actual product.

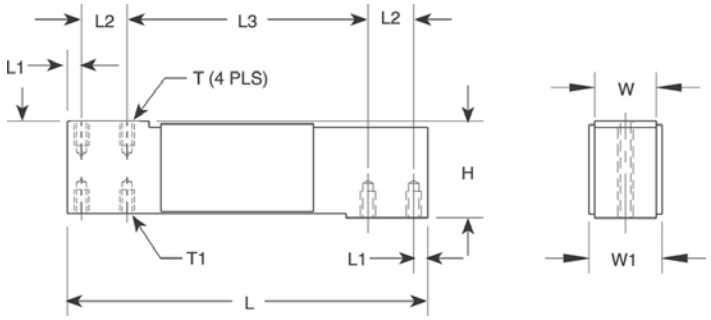
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
Potted IP67			
7 kg	**32860**	2 lb	Consult
10 kg	**32861**	2 lb	Consult
15 kg	**32862**	2 lb	Consult
20 kg	**32863**	2 lb	Consult
30 kg	**32864**	2 lb	Consult
50 kg	**32865**	2 lb	Consult
100 kg	**32866**	2 lb	Consult
Unpotted IP65			
5 kg	**32859**	2 lb	Consult

Dimensions

Rated Capacity	H	L	L1	L2	L3	T	T1	W	W1
kg/mm									
5 to 100	40.0	150.0	5.95	19.1	100.0	1/4-20 UNC × 10 DP	1/4-28 UNF × 10 DP	25.4	29.4



Interchangeable Products

VPG® TEDEA-HUNTLEIGH®
1040

CARDINAL®
TSP

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
415 (± 5) ohm

Material/Finish:
Anodized aluminum

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Potted, IP67
Unpotted, IP65

Safe Overload:
200% at center loading point, full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
2,000 megohm

Deflection at Capacity:
0.4 mm

Cable Length:
10 ft

Cable Diameter:
0.200 in PVC jacket

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

Max Platform Size:
15.75 × 15.75 in

Warranty:
Two-year limited

Approvals:
NTEP 95-074
cFMus

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RL1140

Stainless Steel, Environmentally Sealed, Potted IP65



Picture is a representation of actual product.

Approvals

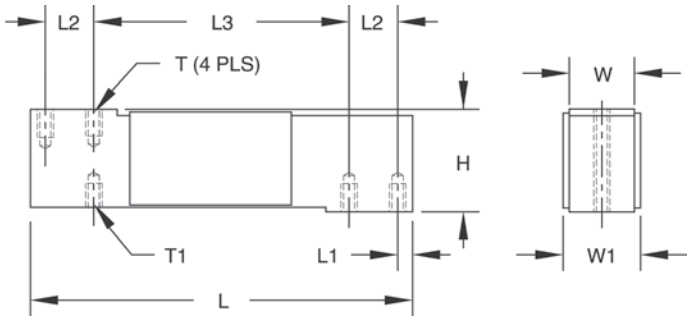
FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
15 kg	**17544**	3 lb	Consult
30 kg	**17545**	3 lb	Consult
50 kg	**17546**	3 lb	Consult
75 kg	**17547**	3 lb	Consult
100 kg	**17548**	3 lb	Consult
150 kg	**36467**	3 lb	$339.00

Dimensions

Rated Capacity	H	L	L1	L2	L3	T	T1	W	W1
kg/mm									
15 to 150	40.0	150.0	6.0	19.1	100.0	1/4-20 UNC × 10 DP	1/4-28 UNF × 10 DP	25.4	29.4



Interchangeable Products

VPG® TEDEA-HUNTLEIGH®
1140

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
350 (± 5) ohm, nominal

Input Resistance:
383 (± 15) ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
14 ° F to 104 °F (-10 °C to 40 °C)
Compensated:
14 ° F to 104 °F (-10 °C to 40 °C)

Seal Type:
Environmentally sealed, IP65

Safe Overload:
200% at center loading point, full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
2,000 megohm

Deflection at Capacity:
0.4 mm

Cable Length:
10 ft

Cable Diameter:
0.200 in PVC jacket

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Brown –Sense

Max Platform Size:
15.75 × 15.75 in

Warranty:
Two-year limited

Approvals:
cFMus

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SINGLE POINT

RL1380

Stainless Steel, Environmentally Sealed, NTEP Certified 1:3,000 Class III Single Cell, IP67



Picture is a representation of actual product.

Approvals

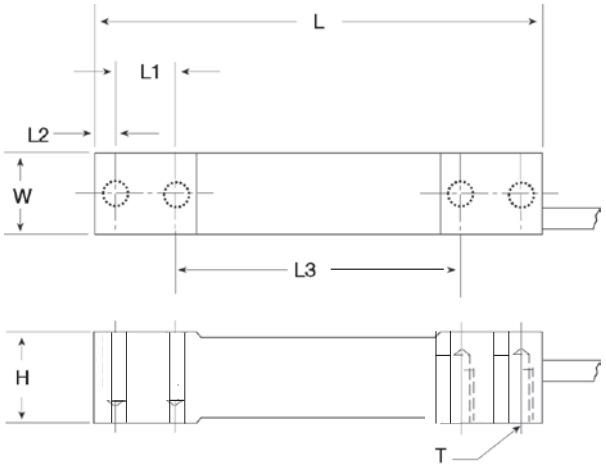
NTEP FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
7 kg	**30783**	2 lb	Consult
10 kg	**30782**	2 lb	Consult
15 kg	**30781**	2 lb	Consult
30 kg	**30780**	2 lb	Consult
60 kg	**30779**	2 lb	Consult

Dimensions

Rated Capacity	H	L	L1	L2	L3	T	W
kg/mm							
7 to 15	30.2	139.7	19.1	6.4	88.9	1/4-20 UNC	19.0
30 to 60	30.2	139.7	19.1	6.4	88.9	1/4-20 UNC	23.6



Interchangeable Products

HBK®
PWS

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
359 (± 10) ohm

Input Resistance:
390 (± 15) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.03% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
<0.4 mm full scale

Cable Length:
10 ft

Cable Diameter:
0.190 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

Max Platform Size:
15.75 × 15.75 in

Warranty:
Two-year limited

Approvals:
NTEP 94-128
FM

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RL1385

Stainless Steel, Environmentally Sealed, NTEP Certified 1:4,500 Class III Single Cell, IP67



Picture is a representation of actual product.

Approvals

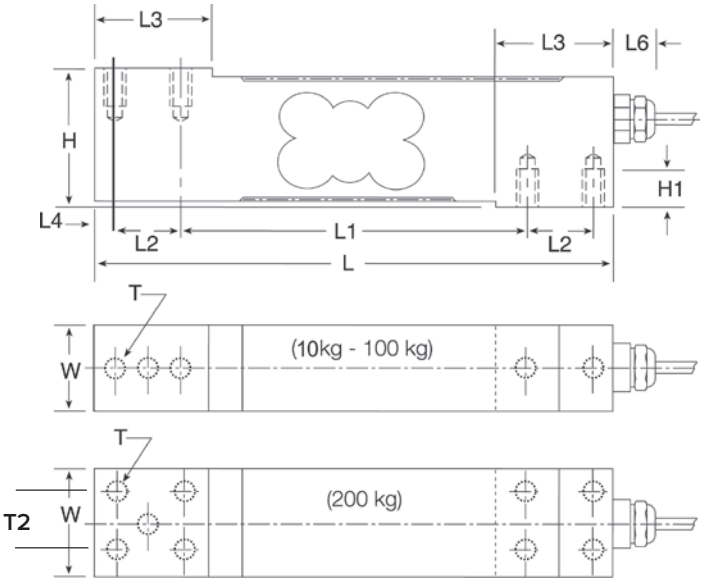
NTEP FM APPROVED

Order Information

Load Rating	Part #	Est. Weight	Price
NTEP Certified			
10 kg	**41405**	3 lb	Consult
15 kg	**41233**	3 lb	Consult
30 kg	**41234**	3 lb	Consult
50 kg	**41235**	3 lb	Consult
75 kg	**41236**	3 lb	Consult
Non-NTEP Certified			
100 kg	**41237**	3 lb	Consult
200 kg	**41406**	4 lb	Consult

Dimensions

Rated Capacity	H	H1	L	L1	L2	L3	L4	L6	W	T	T2
kg/mm											
10 to 100	40.0	10.0	150.0	100.0	19.0	32.0	6.0	20.0	25.4	1/4-20 UNC x 19.1 DP	N/A
200	40.0	10.0	150.0	100.0	19.0	32.0	6.0	20.0	38.1	1/4-20 UNC x 19.1 DP	25.4



Interchangeable Products

FLINTEC®
PC1

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
330 (± 25) ohm

Input Resistance:
390 (± 20) ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
200% full scale

Rated Excitation:
5 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
10 ft

Cable Diameter:
0.196 in
Polyurethane jacket

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal
Yellow Shield

Max Platform Size:
18 × 18 in

Warranty:
Two-year limited

Approvals:
NTEP 00-125
FM

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SINGLE POINT

RL260FD

Fluid Damped, Stainless Steel, Environmentally Sealed, NTEP Certified Single Cell 1:3,000, IP68



Protective Cover

Picture is a representation of actual product.

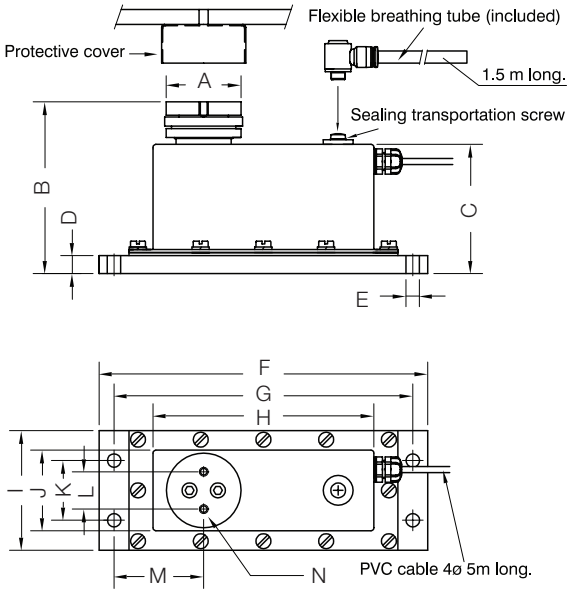
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
2 kg	**194928**	8 lb	Consult
3 kg	**199001**	8 lb	Consult
5 kg	**194929**	8 lb	Consult
7 kg	**194930**	8 lb	Consult
10 kg	**194932**	8 lb	Consult
15 kg	**194933**	8 lb	Consult
20 kg	**194934**	8 lb	Consult
30 kg	**194935**	8 lb	Consult
50 kg	**194936**	16 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
kg/mm														
2 to 50	50 dia	115.0	86.5	12.0	9.0	220.0	200.0	148.0	80.0	54.0	40.0	25.0	60.0	1/4-20 UNC



Interchangeable Products

VPG® TEDEA-HUNTLEIGH®

240*

**5000d NTEP, 10ft cable*

Specifications

Full Scale Output:
2.0 mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Stainless steel

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP68

Safe Overload:
200% of full scale

Rated Excitation:
5 to 10 VDC

Combined Error:
0.017% full scale

Insulation Resistance:
> 5,000 megohm

Cable Length:
5 m

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Yellow -Sense

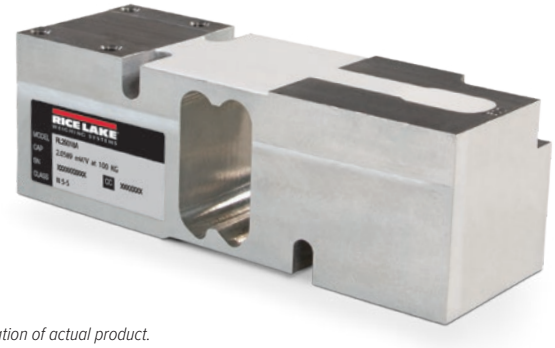
Warranty:
Two-year limited

Approvals:
NTEP 20-045
cFMus

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RL26018A

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP67



Picture is a representation of actual product.

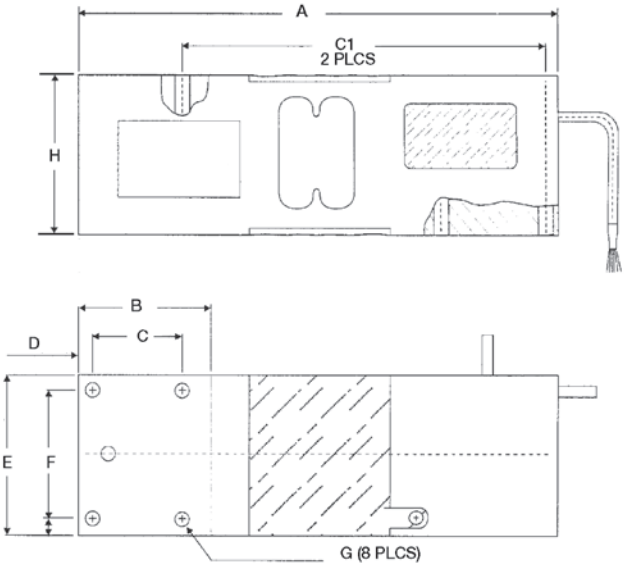
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
50 kg	**188682**	5 lb	Consult
75 kg	**188683**	5 lb	Consult
100 kg	**188684**	5 lb	Consult
150 kg	**188685**	5 lb	Consult
200 kg	**188686**	5 lb	Consult
250 kg	**188687**	5 lb	Consult
300 kg	**188688**	5 lb	Consult
500 kg	**188689**	5 lb	Consult
635 kg	**188690**	5 lb	Consult

Dimensions

Rated Capacity	A	B	C	C1	D	E	F	G	H
kg/mm									
50 to 635	188.0	52.0	35.0	142.0	5.5	63.5	50.0	5/16-18 UNC	62.3



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RLPWM16

RICE LAKE WEIGHING SYSTEMS
RL1260

VPG® TEDEA-HUNTLEIGH®
1260

Specifications

Full Scale Output:
2.0 mV/V nominal

Output Resistance:
350 (± 3) ohm

Input Resistance:
415 (± 15) ohm

Material/Finish:
Anodized aluminum

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% of full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
> 5,000 megohm

Deflection at Capacity:
0.3 to 0.5 mm

Cable Length:
10 ft

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Yellow -Sense

Warranty:
Two-year limited

Approvals:
NTEP 18-108
cFMus

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SINGLE POINT

RL1218A

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP67



Picture is a representation of actual product.

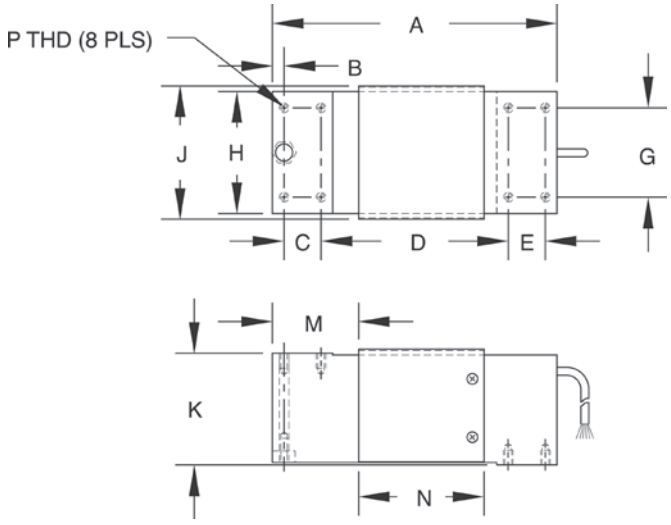
Approvals

Order Information

Load Rating	Part #	Est. Weight	Price
50 kg	**191096**	5 lb	Consult
75 kg	**191097**	5 lb	Consult
100 kg	**191098**	5 lb	Consult
150 kg	**191099**	5 lb	Consult
200 kg	**191100**	5 lb	Consult
250 kg	**191101**	5 lb	Consult
300 kg	**191102**	5 lb	Consult
500 kg	**191103**	5 lb	Consult
635 kg	**191104**	5 lb	Consult
1,000 kg	**191105**	5 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	G	H	J	K	M	N	P
kg/mm												
50 to 1,000	191.0	8.0	25.0	125.0	25.0	60.0	75.0	82.0	75.0	57.5	85.0	5/16-18 UNC × 15 DP



Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RLPWM12

VPG® TEDEA-HUNTLEIGH®
1250

Specifications

Full Scale Output:
2.0 mV/V nominal

Output Resistance:
350 (± 3) ohm

Input Resistance:
415 (± 15) ohm

Material/Finish:
Anodized aluminum

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Rated Excitation:
5-10 VDC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
> 5,000 megohm

Deflection at Capacity:
0.4 mm

Cable Length:
10 ft

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Yellow –Sense

Max Platform Size:
50 to 500 kg: 800 × 800 mm
635 to 1,000 kg: 600 × 600 mm

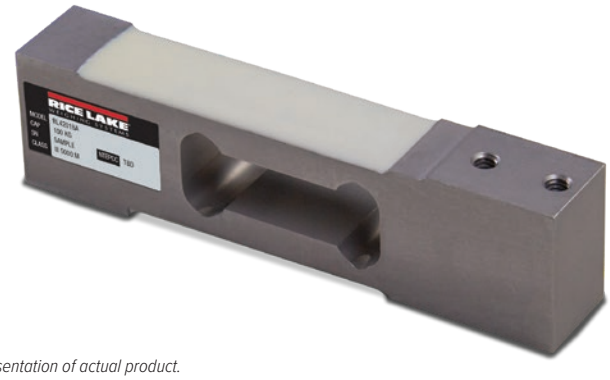
Warranty:
Two-year limited

Approvals:
NTEP 18-133
cFMus

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RL42018A

Aluminum, Environmentally Sealed, NTEP Certified 1:5,000 Class III Single Cell, IP66



Picture is a representation of actual product.

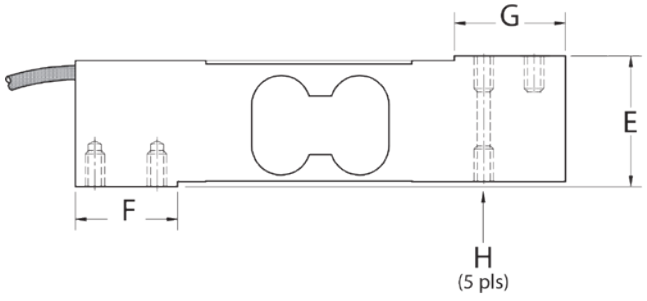
Approvals

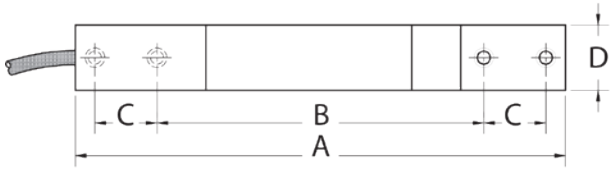
Order Information

Load Rating	Part #	Est. Weight	Price
3 kg	**188672**	2 lb	Consult
5kg	**188673**	2 lb	Consult
7 kg	**188674**	2 lb	Consult
10 kg	**188675**	2 lb	Consult
15 kg	**188676**	2 lb	Consult
20 kg	**188677**	2 lb	Consult
30 kg	**188678**	2 lb	Consult
50 kg	**188679**	2 lb	Consult
75 kg	**188680**	2 lb	Consult
100 kg	**188681**	2 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H
kg/mm								
3 to 30	150.0	100.0	19.0	20.0	40.0	31.2	34.0	1/4-20 UNC
50 to 100	150.0	100.0	19.0	25.4	40.0	31.2	34.0	1/4-20 UNC





Interchangeable Products

RICE LAKE WEIGHING SYSTEMS
RL1042

RICE LAKE WEIGHING SYSTEMS
RLSP4

VPG® TEDEA-HUNTLEIGH®
1042

HBK®
SP4M*

**Color code is different*

Specifications

Full Scale Output:
2.0 mV/V ± 10%

Output Resistance:
350 (± 3) ohm

Input Resistance:
400 (± 20) ohm

Material/Finish:
Aluminum

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP66

Safe Overload:
150% of full scale at center loading point

Rated Excitation:
10 VDC

Combined Error:
0.02% full scale

Insulation Resistance:
> 5,000 megohm

Deflection at Capacity:
0.3 to 0.5 mm

Cable Length:
10 ft

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal
Blue +Sense
Yellow –Sense

Max Platform Size:
15.75 × 15.75 in max

Warranty:
Two-year limited

Approvals:
NTEP 18-105
cFMus

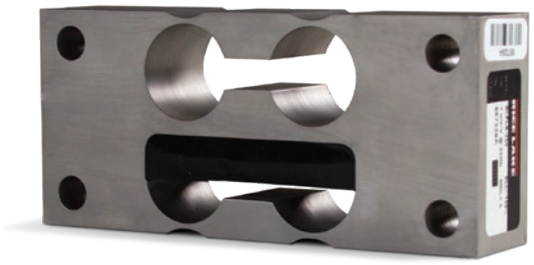
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SINGLE POINT

RLFLS

Stainless Steel, Environmentally Sealed, Potted, IP67

Limited Stock Available



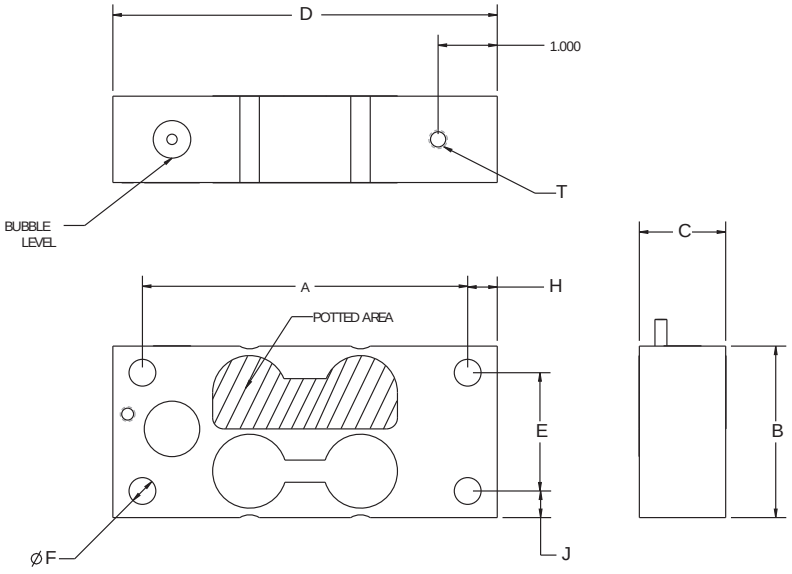
Picture is a representation of actual product.

Order Information

Load Rating	Part #	Est. Weight	Price
50 lb	**125612**	3 lb	Consult

Dimensions

Rated Capacity	A	B	C	D	E	F	H	J	T
lb/in									
50	5.50	2.90	0.74	6.50	2.00	0.50	0.50	0.45	5/16-18 UNC x 0.50



Interchangeable Products

AVERY WEIGH-TRONIX®

FLS

Specifications

Full Scale Output:
1.0 (± 10%) mV/V

Output Resistance:
350 (± 3) ohm

Input Resistance:
385 (± 10) ohm

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 15 VDC

Nonlinearity:
0.02% full scale

Hysteresis:
0.02% full scale

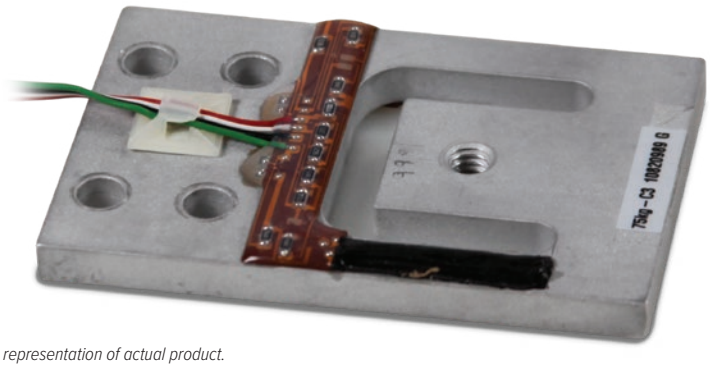
Insulation Resistance:
5,000 megohm

Cable Length:
10 ft

Cable Color Code:
Green +Excitation
Black –Excitation
Red +Signal
White –Signal

Warranty:
Two-year limited

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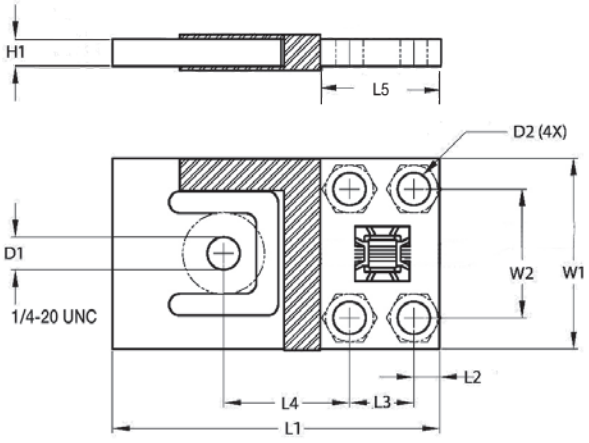
Picture is a representation of actual product.

Order Information

Load Rating	Part #	Est. Weight	Price
15 kg	**100272**	1 lb	Consult
37.5 kg	**104645**	1 lb	Consult
75 kg	**100273**	1 lb	Consult
150 kg	**100274**	1 lb	Consult

Dimensions

Rated Capacity kg/mm	L1	L2	L3	L4	L5	W1	W2	H1	D1	D2
15.0	70.0	4.9	14.0	28.0	23.7	39.0	27.8	4.1	7.6	5.1
37.5	76.2	6.0	15.0	29.3	27.0	44.5	30.0	4.8	7.6	6.6
75.0	84.4	6.4	15.0	34.0	27.7	54.8	30.0	6.4	7.6	6.6
150.0	107.3	7.8	22.9	45.9	38.4	69.9	44.5	7.9	9.1	8.1



Interchangeable Products

FLINTEC®
PB

Specifications

Full Scale Output:
1.0 mV/V

Output Resistance:
1,000 (± 10) ohm

Input Resistance:
1,180 (± 50) ohm

Material/Finish:
Aluminum

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP65

Safe Overload:
150% full scale

Rated Excitation:
5 to 15 VDC

Combined Error:
0.05% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
15 kg: 1.0 m
37.5 kg, 75 kg, 150 kg: 1.5 m

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

Warranty:
Two-year limited

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TENSION LINK

RL2010

Stainless Steel, Environmentally Sealed, IP67



Picture is a representation of actual product.

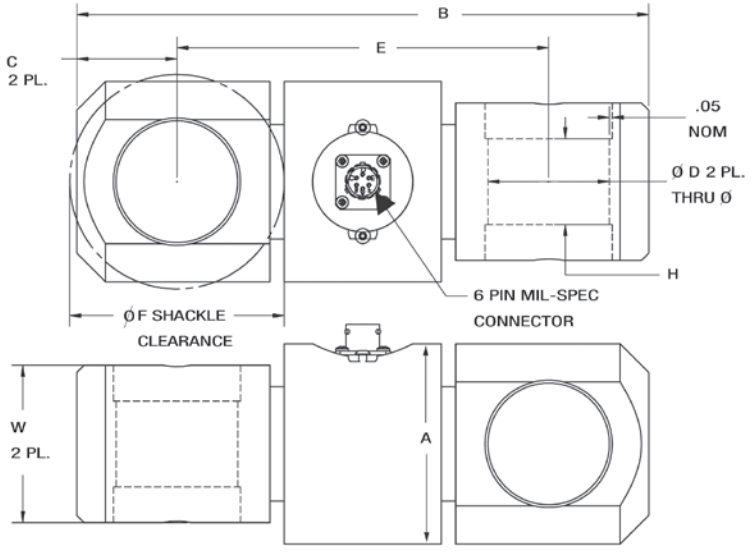
Order Information

Load Rating	Part #	Est. Weight	Price
5,000 lb	**117731**	5 lb	Consult
10,000 lb	**117732**	5 lb	Consult
25,000 lb	**117733**	8 lb	Consult
50,000 lb	**117735**	34 lb	Consult
75,000 lb	**117736**	34 lb	Consult
100,000 lb	**117737**	56 lb	Consult
150,000 lb	**117738**	56 lb	Consult
200,000 lb	**117739**	95 lb	Consult
250,000 lb	**117740**	117 lb	Consult
300,000 lb	**117741**	191 lb	Consult
500,000 lb	**117742**	191 lb	Consult
Replacement Parts			
40 ft load cell cable	**187132**		Consult

NOTE: Consult factory for shackles

Dimensions

Rated Capacity	A	B	C	ØD	E	ØF	W	H
lb/in								
5,000 to 10,000	2.00	6.50	1.00	1.05	4.50	2.38	1.37	0.75
25,000	2.75	8.00	1.38	1.55	5.25	2.88	2.00	1.00
50,000 to 75,000	3.25	14.00	2.50	2.31	9.00	5.00	3.00	1.75
100,000 to 150,000	4.00	16.00	2.88	2.88	10.25	6.25	4.00	2.00
200,000	6.00	18.00	3.25	3.38	11.50	6.50	4.75	2.38
250,000	6.50	20.00	3.75	3.88	12.50	7.50	5.00	2.75
300,000 to 500,000	7.50	24.00	4.50	4.31	15.00	9.50	5.40	3.00



Specifications

Full Scale Output:
3.0 (± 0.1%) mV/V

Bridge Resistance:
350 ohm, nominal

Material/Finish:
Stainless steel

Temperature:
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Rated Excitation:
5 to 10 VDC (15 V maximum)

Linearity:
0.05% full scale

Repeatability:
0.03% full scale

Insulation Resistance:
5,000 megohm

Cable Length:
40 ft

Cable Diameter:
0.25 in
Polyurethane jacket with connector

Cable Color Code:
Green +Excitation
Black –Excitation
White +Signal
Red –Signal

Warranty:
Two-year limited

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Custom Outputs Available

MSI Load Pin Sensors



Standard Features

- Customized for individual integrated solutions where it will be permanently installed to monitor loads and overloading protection. Machined from 17-4 stainless steel ensures safety, strength and corrosion resistance.

(Contact MSI for application consultation)

For most overhead weighing applications, traditional scales are an ideal solution. However, applications with limited to no headroom require specialty equipment beyond even reduced-height or low-profile crane scales.

One such solution is an MSI load pin sensor. A load pin sensor is a type of load cell that directly replaces clevis, pivot, normal shaft or equalizer pins. Load pin sensors are designed to be permanently installed, so they can continuously monitor vertical or horizontal tension. An integrated load pin provides load monitoring and overload protection without impacting headroom to promote safety and to prevent costly equipment damage.

Rice Lake's industry leading engineers design and manufacture custom load pin sensors for any application. Every load pin is constructed from stainless steel for safety, strength (minimum 5:1) and corrosion resistance.

To receive a quote for a load pin sensor, complete the load pin questionnaire on page 752 or online at www.ricelake.com/questionnaires. For further assistance, contact an MSI overhead weighing specialist.

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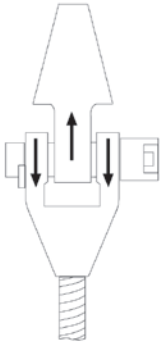
Load Pin Questionnaire

RICE LAKE WEIGHING SYSTEMS

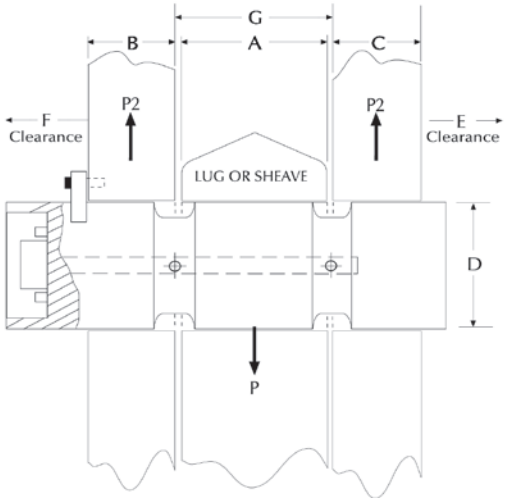
Company: Name:

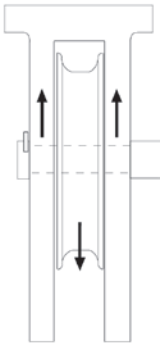
Date: Phone: Email:

Load Pin Critical Dimensions



Standard Load Sensing Clevis Pin for Wire Rope Sockets Dead-Ends





Sheave/Pulley Load Pins Equalizer/Idler

A *WIDTH* Inch

E *CLEARANCE* Inch

B *WIDTH* Inch

F *CLEARANCE* Inch

C *WIDTH* Inch

G *WIDTH* Inch

D *DIAMETER* Inch

NOTE: Minimum clearance between A and G is 0.0625 inch

Load Pin Data

Lube port: ☐ *Yes* ☐ *No* ☐ *No. of exits*

Hoist capacity: *tons*

Part of wire rope:

Sensor capacity: *tons*

Safety factor: ☐ *3 : 1* ☐ *5 : 1* ☐ *7 : 1* ☐ *10 : 1*

Application:

Accuracy requirement:

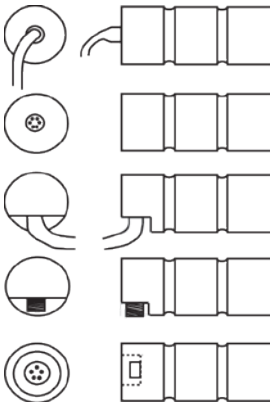
Temperature requirement:

Output requirement:

Material testing requirements:

Load vector orientation/alignment: ☐ ← ☐ → ☐ ↑ ☐ ↓

Cable Connections



☐ End-mounted cable:

☐ End-mounted connector (standard):

☐ Side-mounted cable:

☐ Side-mounted connector

☐ Recessed connector:

Sensor's cable length: *feet*

Comments:

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MSI Tension Link

Load Cell



Standard Features

- Integrates between a crane block and lifting equipment to provide force measurement for lifted items. This is an ideal solution for crane weighing and features a 7:1 safety factor for compliance with industrial and military safety requirements.

Options

(Contact MSI for application consultation)

- Top lifting eye or shackle with Crosby® (or equivalent) 360° thrust-bearing swivel hook

Specifications

Accuracy:
0.1% sensor accuracy

Rating/Material:
4340 steel

Full Scale Output:
0.8 mV/V

Output Resistance:
2,000 ohm

Input Resistance:
1,500 ohm

Connector Pin Out:
A: EX +
B: Sig +
C: Sig —
D: EX —

Part Number/Price

Part #	Description	Price
181907	2 K 7200 style load cell only	Consult
181908	5 K 7200 style load cell only	Consult
181909	10 K 7200 style load cell only	Consult
178093	25 K 7200 style load cell only	Consult
178094	50 K 7200 style load cell only	Consult
181910	100 K 7200 style load cell only	Consult

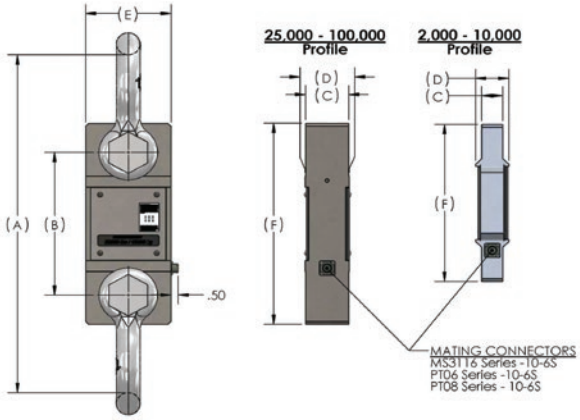
Contact factory for higher capacities

Options/Accessories

Part #	Description	Price
165978	Load cell to MSI-7001 interface cable, 6.5 ft	Consult
165979	Load cell to MSI-7001 interface cable, 10 ft	Consult
165990	Load cell to MSI-7001 interface cable, 25 ft	Consult
134505	Load cell mating cable to bare wires, 10 ft	Consult

Dimensions

Capacity (lbs)	P/N	Load Cell Material	(A) Headroom Loss	(B) C-C Length	(C) Lug Thk	(D) Body Thk	(E) Body Width	(F) Body Length	Lug Hole	Crosby Shackle	
2,000	**181907**	Aluminum	13.50 in	8.00 in	0.99 in	2.13 in	4.50 in	9.75 in	0.78 in	3-1/4 T	151357
5,000	**181908**	Aluminum	13.50 in	8.00 in	0.99 in	2.13 in	4.50 in	9.75 in	0.78 in	3-1/7 T	151357
10,000	**181909**	Aluminum	16.13 in	8.50 in	1.35 in	2.13 in	5.37 in	10.75 in	1.05 in	6-1/2 T	151355
25,000	**178093**	Steel	22.39 in	9.26 in	2.24 in	2.24 in	4.80 in	12.76 in	1.67 in	17 T	141992
50,000	**178094**	Steel	25.74 in	9.76 in	2.74 in	2.81 in	5.43 in	13.76 in	2.05 in	25 T	151356
100,000	**181910**	Steel	28.49 in	10.74 in	3.09 in	3.09 in	6.86 in	15.74 in	2.30 in	55 T	146336



MSI Clamp-On

Load Cell



Part Number/Price

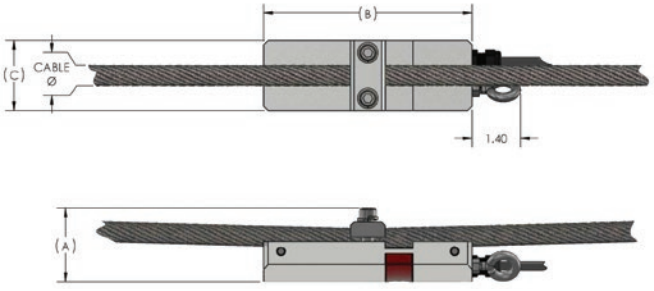
Part #	Description	Price
179080	Load Cell Assembly Clamp-On for 3/8 to 1/2 in wire rope	Consult
179082	Load Cell Assembly Clamp-On for 9/16 to 3/4 in wire rope	Consult
188816	Kit with SCT-2200 for 3/8 to 1/2 in wire rope	Consult
188817	Kit with SCT-2200 for 9/16 to 3/4 in wire rope	Consult

Larger diameter clamp ons available - call for pricing

Dimensions

Cable Range	Part #	A	B	C
3/8 to 1/2	**179080**	Cable + 1.70	6.00	2.00
9/16 to 3/4	**179082**	Cable + 1.67	6.00	2.00

**8 mm cable can be used with PN 179080*



Standard Features

- A durable solution for measuring wire rope tension and preventing overloads for cranes and hoists. Available in two envelopes for accommodating the most common wire ropes. With the SCT-2000, weight-based setpoints can provide the operator alerts and safety shut-offs based on unsafe load conditions.

Options

(Contact MSI for application consultation)

- Custom sizes available on request
- Pair with an SCT transmitter for basic safety functions

Specifications

Rating/Material:
4340 steel, zinc plated
IP68

Output Resistance:
350 ohm

System Accuracy of Calibrated Capacity:
3 to 5%

Cable Length:
20 ft integral cable with blunt end termination

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal



Optional SCT-2200 transmitter

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Monorail Scales

TABLE OF CONTENTS

Monorail Scales **755**

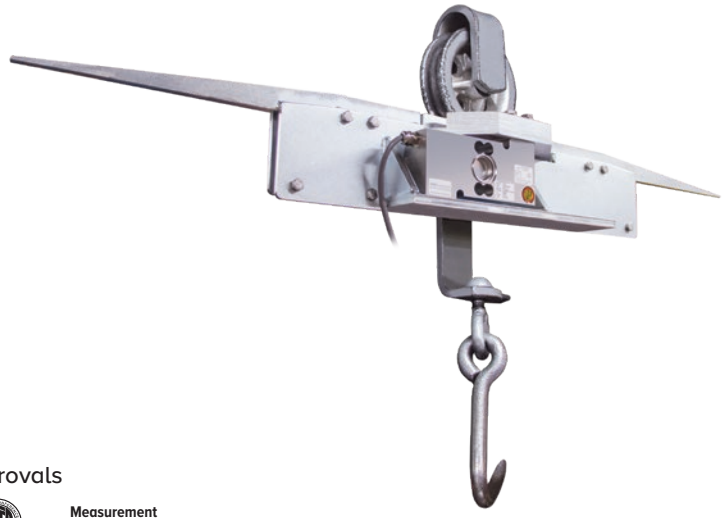
MS200 ..... **756**
Portable Monorail Scale

MS202 ..... **758**
Permanent Monorail Scale

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MS200

Portable Monorail Scale



Approvals

Measurement Canada Approved

Part Number/Price

Part #	Description	Est. Weight	Price
MS200HB for 3/8-in or 1/2-in Rails			
19743	750 lb x 0.5 lb, nickel-plated	38 lb	$2,783.00
MS200HB for 1/2-in Rails			
213006	1,500 lb x 0.5 lb, nickel-plated	40 lb	$2,783.00
213007	1,500 lb x 0.5 lb, stainless steel	40 lb	$3,098.00

Options/Accessories

Part #	Description	Price
16984	Additional operating manual	$5.00
167585	Replacement load cell for 750 lb cap monorail, model SPT 1510-500 kg, 20 ft cable	$850.00
227092	Replacement load cell for 1,500 lb cap monorail, model RLPCBC-60, 1,000 kg, 20 ft cable	$1,025.00
216728	Configuration and Monorail calibration	$315.00

Standard Features

- 8-in live-rail designed to weigh one trolley at a time
- 750 lb × 0.5 lb (3/8 in rail)
- 1500 lb × 0.5 lb (1/2 in rail)
- Available for rail sizes 3/8 × 2-1/2 in or 1/2 × 2-1/2 in
- Requires less than 41 in of straight rail to install (22 inches between tail hangers)
- Nickel-plated mild steel and stainless steel construction available
- High accuracy, stainless steel load cell
- 20 ft of cable
- Slightly recessed live-rail for the trolley roller provides stable weighments

Specifications

Construction:
A36 mild steel construction with electroless nickel (EN) plating or 304 series stainless steel construction
304 series stainless steel hardware.

Load Cell Construction:
Stainless steel

Bridge Resistance:
750 lb: 350 ohm
1,500 lb: 1,000 ohm

Rated Output:
2 mV/V

Nonlinearity:
0.03% full scale

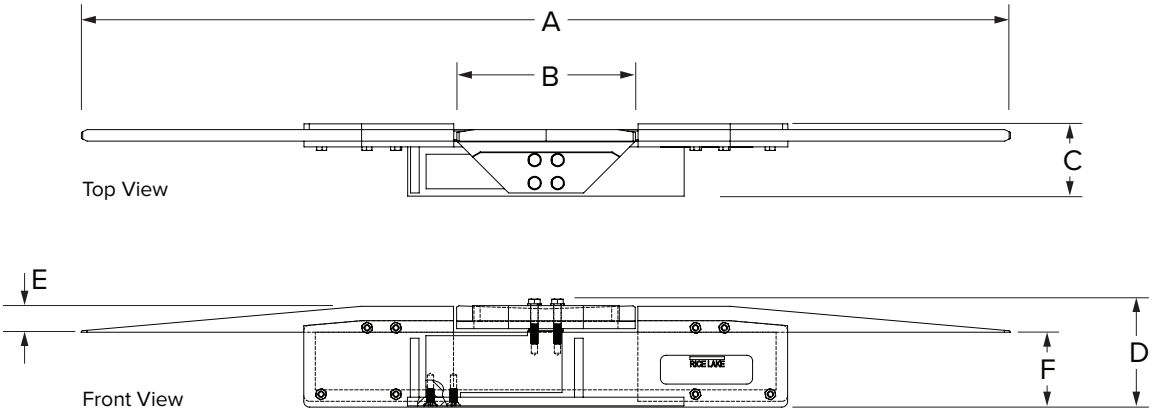
Warranty:
One-year limited

Approvals:
NTEP 90-003 Class III, 3,400d (Max)
Measurement Canada: AM-6244 Class III, 3,400d (1,500 lb/680 kg) stainless steel only

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Dimensions

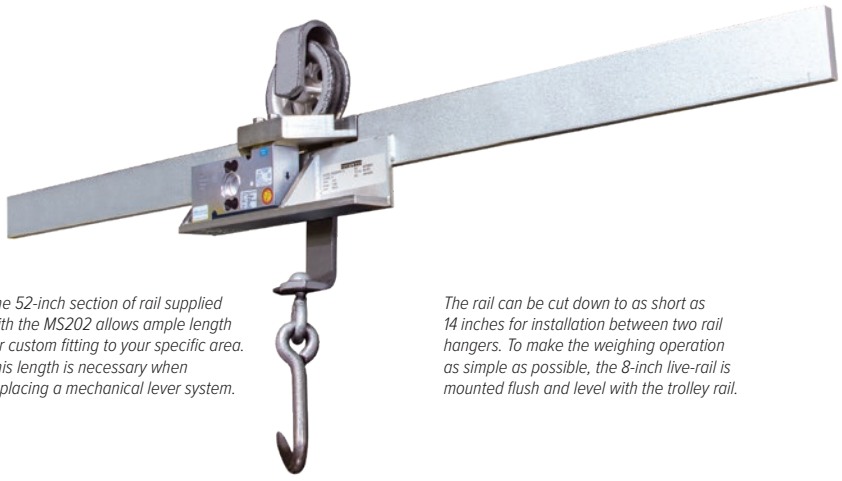
MS200		
	750 lb Capacity	1500 lb Capacity
A	40.32 in (1,024 mm)	40.32 in (1,024 mm)
B	8.00 in (203 mm)	8.00 in (203 mm)
C	3.14 in (80 mm)	4.91 in (125 mm)
D	4.69 in (119.03 mm)	5.19 in (132 mm)
E	1.13 in (29 mm)	1.13 in (29 mm)
F	3.25 in (83 mm)	3.46 in (88 mm)



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MS202

Permanent Monorail Scale



The 52-inch section of rail supplied with the MS202 allows ample length for custom fitting to your specific area. This length is necessary when replacing a mechanical lever system.

The rail can be cut down to as short as 14 inches for installation between two rail hangers. To make the weighing operation as simple as possible, the 8-inch live-rail is mounted flush and level with the trolley rail.

Approvals

Measurement Canada Approved

Part Number/Price

Part #	Description	Est. Weight	Price
MS202HB for 3/8-in Rails			
19744	MS202HB, 750 lb x 0.5 lb, nickel-plated	38 lb	$2,730.00
196885	MS202HB-SS, 750 lb x 0.5 lb, stainless steel	38 lb	$3,045.00
MS202HB for 1/2-in Rails			
213003	MS202HB, 1500 lb x 0.5 lb, nickel-plated	40 lb	$2,730.00
213004	MS202HB, 1500 lb x 0.5 lb, stainless steel	40 lb	$3,045.00

Options/Accessories

Part #	Description	Price
16984	Additional operating manual	$5.00
167585	Replacement load cell for 750 lb cap monorail, model SPT 1510-500 kg, 20 ft cable	$850.00
227092	Replacement load cell for 1,500 lb cap monorail, model RLPCBC-60, 1,000 kg, 20 ft cable	$1,025.00
216728	Configuration and Monorail calibration	$315.00

Standard Features

- 8 in live-rail designed to weigh one trolley at a time
- 750 lb × 0.5 lb (3/8 in rail)
- 1500 lb × 0.5 lb (1/2 in rail)
- Available for rail sizes 3/8 × 2-1/2 in or 1/2 × 2-1/2 in
- Requires less than 41 in of straight rail to install (14 in between rail hangers)
- Nickel-plated mild steel and stainless steel construction available
- High accuracy, stainless steel load cell
- 20 ft of cable
- Slightly recessed live-rail for the trolley roller provides stable weighments

Specifications

Construction:
A36 mild steel construction with electroless nickel (EN) plating or
304 series stainless steel construction
304 series stainless steel hardware

Load Cell Construction:
Stainless steel

Bridge Resistance:
750 lb: 350 ohm
1,500 lb: 1,000 ohm

Rated Output:
2 mV/V

Nonlinearity:
0.03% full scale

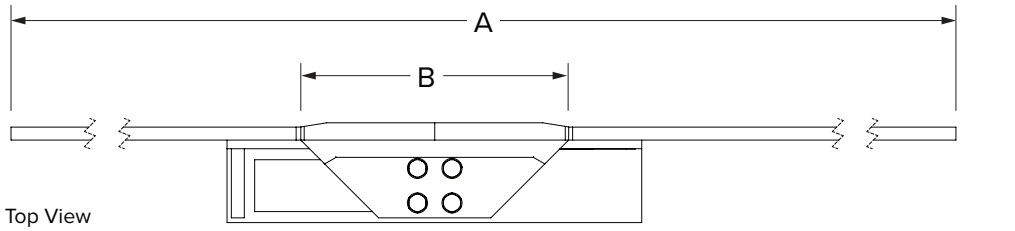
Warranty:
One-year limited

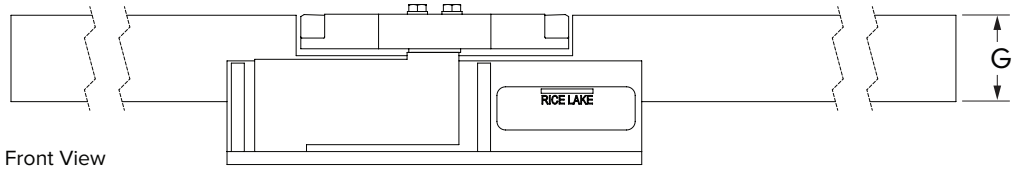
Approvals:
NTEP 90-003 Class III, 3,400 d (Max)
Measurement Canada AM-4849 (750 lb/375 kg) stainless steel only
Measurement Canada AM-6244 (1,500 lb/680 kg)

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Dimensions

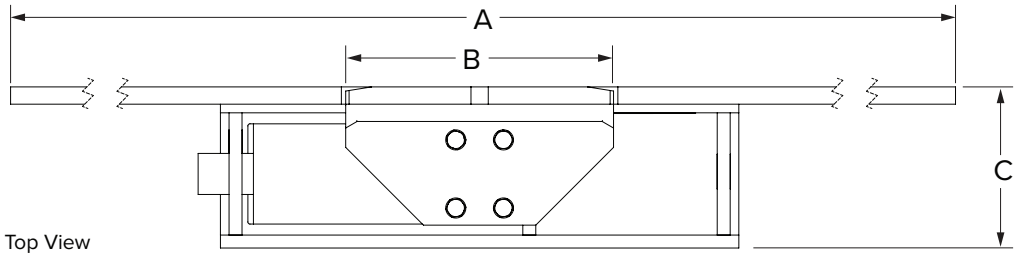
MS202	
750 lb Capacity	
A	52.00 in ± 0.03 in (1,321 mm ± 0.76 mm)
B	8.00 in (203 mm)
G	2.50 in (63.5 mm)

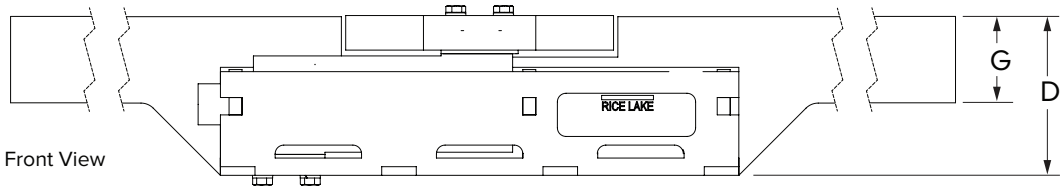




Dimensions

MS202	
1,500 lb Capacity	
A	52.00 in ±0.03 in (1,321 mm ± 0.76 mm)
B	8.00 in (203 mm)
C	4.66 in (118 mm)
D	4.59 in (117 mm)
E	2.50 in (63.5 mm)





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Onboard Weighing

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Legal for Trade Onboard Weighing System

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PL Series Load Cells

PL9000-14



The PL9000-14 is a low-profile load cell designed for onboard weighing applications with limited height. With a single-piece bearing plate and an overall profile of only 2.4 inches, the PL9000-14 is ideal for applications with four- or six-point underbody mounts and body rest mounts.

Order Information

Picture is a representation of actual product

Load Rating		Part #	Est. Weight	Price
Static 16,500 lb	Dynamic 10,000 lb	**114322**	19 lb	$810.00

PL9000-14.4



The PL9000-14.4 is ideal for underbody and body rest mounts in four- or six-point system configurations. This load cell offers higher load ratings with a single-piece bearing plate and overall length of 14 inches.

Order Information

Picture is a representation of actual product

Load Rating		Part #	Est. Weight	Price
Static 25,000 lb	Dynamic 12,500 lb	**115345**	18 lb	$920.00

PL9000-22



The PL9000-22 is designed for underbody mounts and low-profile axle scales such as Rice Lake's AX3040. It has a 2.4 inch profile and is 22.6 inches long.

Order Information

Picture is a representation of actual product

Load Rating		Part #	Est. Weight	Price
Static 30,000 lb	Dynamic 20,000 lb	**111766**	30 lb	$1,170.00

PL9000-26



The PL9000-26 is a heavy-duty, shear beam load cell designed for king pin plates and underbody mounts. Available with either a single bearing plate or two separate bearing plates, the PL9000-26 has a 2.3 inch profile and is 26 inches long.

Order Information

Picture is a representation of actual product

Load Rating		Part #	Est. Weight	Price
Static 40,000 lb	Dynamic 20,000 lb	**114325**	35 lb	$1,095.00

PL9000-50



The PL9000-50 is designed for fifth wheel kits and spring suspension equalizer hangers. The PL9000-50 has two separate bearing plates, one on each end, and an overall profile of 2.8 inches.

Order Information

Picture is a representation of actual product

Load Rating		Part #	Est. Weight	Price
Static 50,000 lb	Dynamic 12,500 lb	**114326**	24 lb	$925.00

PL9110



The PL9110 double-ended shear beam load cell is ideal for weighing equipment typically fixed to a truck body. This low-profile, rigid mount load cell is offered in capacities from 2,000 lb to 20,000 lb with the same profile.

Order Information

Picture is a representation of actual product

Load Rating	Part #	Est. Weight	Price
Static 2,000 lb	**204610**	6 lb	$780.00
Static 5,000 lb	**204611**	6 lb	$780.00
Static 10,000 lb	**204612**	6 lb	$780.00
Static 20,000 lb	**204613**	6 lb	$780.00

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PL9200



The PL9200 onboard weighing load cell is hermetically sealed with an IP69 rating.

Order Information

Picture is a representation of actual product

Load Rating	Part #	Est. Weight	Price
Static 25,000 lb	**209603**	25 lb	$1,195.00
Static 35,000 lb	**210812**	25 lb	$1,195.00

RLD-10K



The RLD-10K double-ended shear beam load cell has a low profile and rigid mount. The RLD-10K is ideal for applications where suspension mounts are not suitable, profile increases don't work, or dynamic forces are present.

Order Information

Picture is a representation of actual product

Load Rating		Part #	Est. Weight	Price
Static 10,000 lb	Dynamic 4,000 lb	**120959**	6 lb	$1,260.00

PLSB-25K



The PLSB-25K is used in Rice Lake's twist-lock and stacking cone mount assemblies. This rigid mount, double-ended shear beam load cell is used when a series of mounts are not fixed to a frame at all times. The PLSB-25K can also be used in applications with dynamic forces.

Order Information

Picture is a representation of actual product

Load Rating		Part #	Est. Weight	Price
Static 25,000 lb	Dynamic 10,000 lb	**179827**	26 lb	$1,250.00
Static 25,000 lb	Dynamic 10,000 lb	**191898**	26 lb	$1,320.00

PLSB-40K



The PLSB-40K alloy steel load cell is hermetically sealed with an IP68 rating and has a 0.75 mV/V output at 12,500 lb.

Order Information

Picture is a representation of actual product

Load Rating		Part #	Est. Weight	Price
Static 40,000 lbs	Dynamic 20,000 lbs	**117666**	31 lb	$1,075.00

LOAD PIN - 2 INCH, 20K



This 2-inch load pin is used in Rice Lake's Loadrunner kits and semi trailer landing gear. This load pin can be paired with load and support collars for applications that have pivot or rotation requirements.

Order Information

Picture is a representation of actual product

Load Rating	Part #	Est. Weight	Price
Static 20,000 lb	**181895**	10 lb	$1,050.00

Additional details and complete specifications for onboard weighing load cells can be found online. Please consult the factory to determine the best model for your application.

PL9110

Mount Assembly



The Pl9110 double-ended shear beam load cell is ideal for weighing equipment that is typically fixed to a truck body. This has a single-piece bearing plate, which offers both a low profile and rigid mounting. With capacities from 2,000 to 20,000 lb, the PL9110 is easy to integrate on any type of equipment.

Part Number/Price

Part #	Description	Price
208297	Kit, OnBoard PL9110-2K (single module kit)	$960.00
208299	Kit, OnBoard PL9110-5K (single module kit)	$960.00
208300	Kit, OnBoard PL9110-10K (single module kit)	$960.00
208301	Kit, OnBoard PL9110-20K (single module kit)	$960.00

Complete Kit Includes

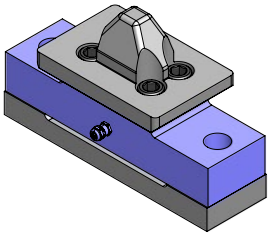
- PL9110 stainless steel load cell
- Bearing plate (mild steel)
- Load cell bolts and spherical washers
- Upper mount bolts and flat washers

Standard Features

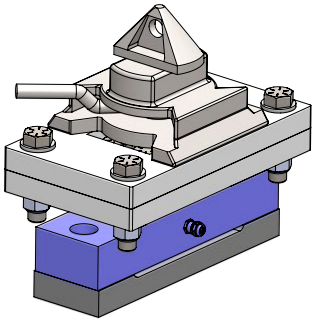
- Capacities from 2,000 to 20,000 lb (per module)
- IP68 rated load cell
- Single-piece bearing plate, allowance to bolt or welded into position
- All capacities maintain the same dimensions
- Spherical washer securement for load cell
- Rigid securement of equipment
- Low profile (2.25 in)
- Stainless steel module available upon request

PLSB-25K Stacking Cone and Twist Lock

Mount Assembly



Stacking Cone Plate



Twist Lock

The Twist Lock and Stacking Cone modules are designed for use with corner castings. Corner castings are the most common on intermodal containers, but can also be found integrated into other equipment. The low-profile, rigid mount PLSB-25K double-ended shear beam load cell is the heart of these modules.

Part Number/Price

Part #	Description	Price
190901	Kit, Onboard, TwistLock (single module kit)	$2,250.00
188542	Kit, OnBoard, Stacking Cone (single module kit)	$1,875.00

Complete Kit Includes

- PLSB-25K load cell
- Bearing plate (mild steel)
- Functional Twist Lock or Stacking Cone upper assembly
- Intermediate plate (Twist Lock only)
- Hardware to secure the upper assembly to the load cell

Standard Features

- 25,000 lb capacity per module
- 50 ft cable lengths
- Single-piece bearing plate, through-hole mounting
- Rigid securement for upper assembly

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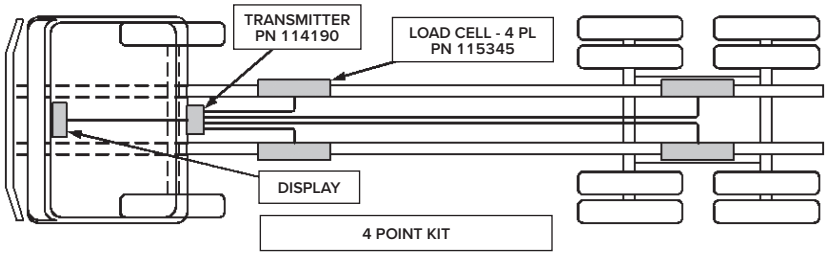
Rigid Underbody Load Cell Kits

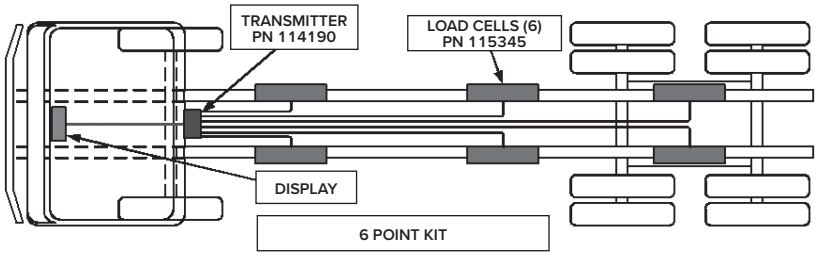


Rice Lake Weighing Systems' rigid underbody load cell kits are designed to offer an onboard weighing solution for a variety of truck body types. They are mounted between the truck chassis and the body, needing little clearance to record weight information. These kits are common for straight truck applications with tanks and hoppers.

Part Number/Price

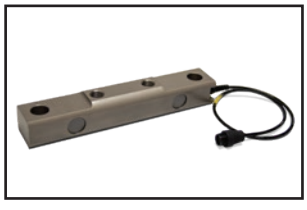
Part #	Model #	Description	Price
114307	PL9710-414.4	Four-point indicator kit with 14.4 in load cells (50,000 lb max with dead load) Kit includes: 9710, four-lead transmitter, (4) 14.4 in load cell, (4) bearing plates, (4) body coil springs, 35 ft truck cable, 15 ft power cable	$6,800.00
114308	PL9710-614.4	Six-point indicator kit with 14.4 in load cells (75,000 lb max with dead load) Kit includes: 9710, six-lead transmitter, (6) 14.4 in load cell, (6) bearing plates, (8) body coil springs, anti rotation plate, 35 ft truck cable, 15 ft power cable	$8,820.00



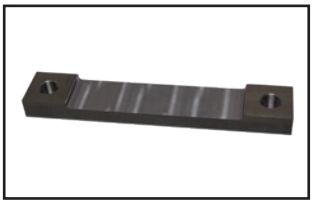




9700 Series Indicator, PN 114186



PL9000-14.4 Load Cell, PN 115345



Bearing Plate, PN 115309



Transmitter, PN 114190



Transmitter, PN 114354



Cable Assembly, PN 114199



Power Cable, PN 115093

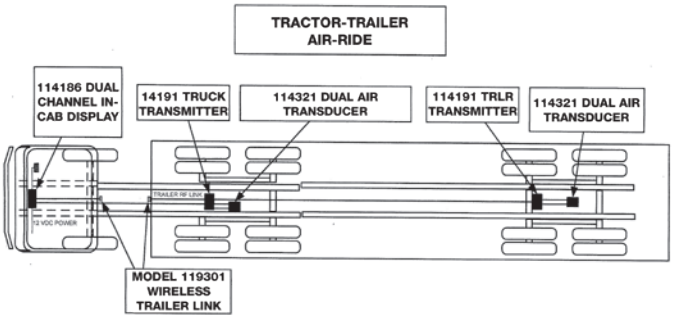
Tractor-trailer Kits

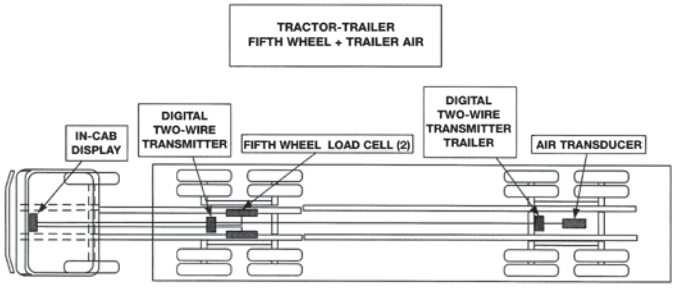


Rice Lake Weighing Systems offers an array of onboard scale systems for over-the-road tractor-trailers. Whether you are adding air pressure or load cell sensing, many combinations are available to fit your needs.

Part Number/Price

Part #	Model #	Description	Price
Air Ride Kit, Tractor/Trailer			
114286	PL9700-200	Dual transducer kit (tractor-trailer) Kit includes: 9700, (2) air transmitter 2-lead, (2) dual air pressure transducer, 35 ft & 80 ft truck cable, 15 ft power cable	$3,880.00
Fifthwheel Kit w/Air Ride Trailer Kit			
114295	PL9701-250H	Holland fixed fifth wheel kit (25,000 lb max with dead load) Kit includes: 9700, dual lead transmitter, (2) fifth wheel bending beam/suspension load cell, 35 ft truck cable, 15 ft power cable, hardware	$4,620.00
114294	PL9701-200	Dual transducer kit (trailer only) Kit includes: Air transmitter 2-lead LC, dual air pressure transducer, 80 ft truck cable	$1,360.00







9700 Series Indicator, PN 114186



Air Pressure Transducer, PN 114321



Transmitter, PN 114191



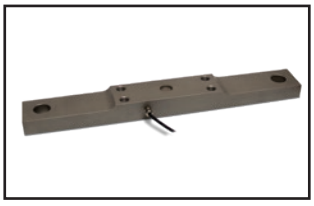
Cable Assembly, PN 114199



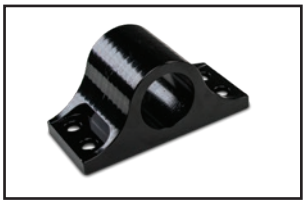
Trailer Cable, PN 114201



Power Cable, PN 115093



PL9000-50 Load Cell, PN 114326



Trunnion, Holland, PN 115104

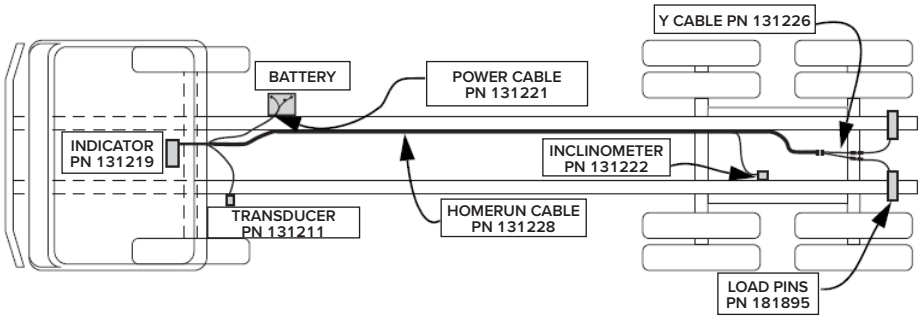
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Rice Lake Weighing Systems' onboard scale systems ensure optimal and safe use of a truck's payload capacity. The Loadrunner dump truck system incorporates both load cell and hydraulic pressure sensing. Weight information is obtained when the dump body is lifted a few inches off the frame.

Part Number/Price

Part #	Description	Price
System		
158195	Dump truck system with 2-in load pins, indicator, cables and hardware	$5,200.00





OB-350 Indicator, PN 131219



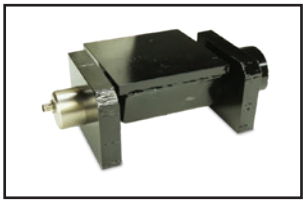
Hydraulic Transducer, PN 131211



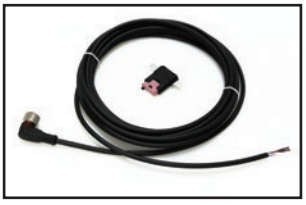
Dump Truck Load Pin, PN 181895



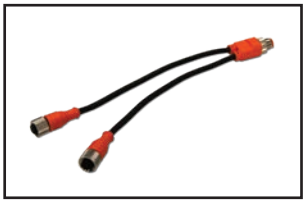
Onboard Inclinometer, PN 131222



Dump Truck Hardware Kit



Power Cable, PN 131221



Y-Splitter Cable, PN 131226

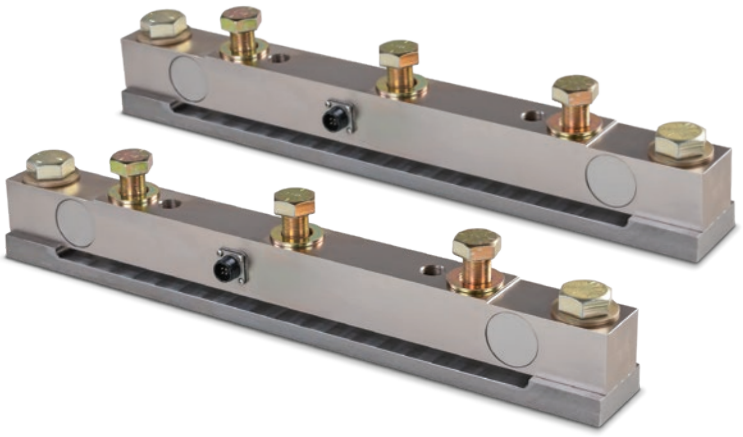


Homerun Cable, PN 131228

Compatibility note: The Loadrunner dump truck kit has been designed for use on dual pin hinge pivot type dump bodies only. For dump truck body rear pivot assemblies using a single hinge bar, contact Rice Lake.

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King Pin Load Cell Kit



The PL9000-26 is a double-ended shear beam load cell that is ideal for distributing weight of the king pin plate to the trailer frame. With a capacity of 20,000 lb per module, these load cells can withstand rough roads.

Complete Kit Includes

- Two PL9000-26 load cells
- Two bearing plates (mild steel)
- Two 30 ft cables with connectors
- Load cell bolts and flat washers
- Upper mount bolts and flat washers

Standard Features

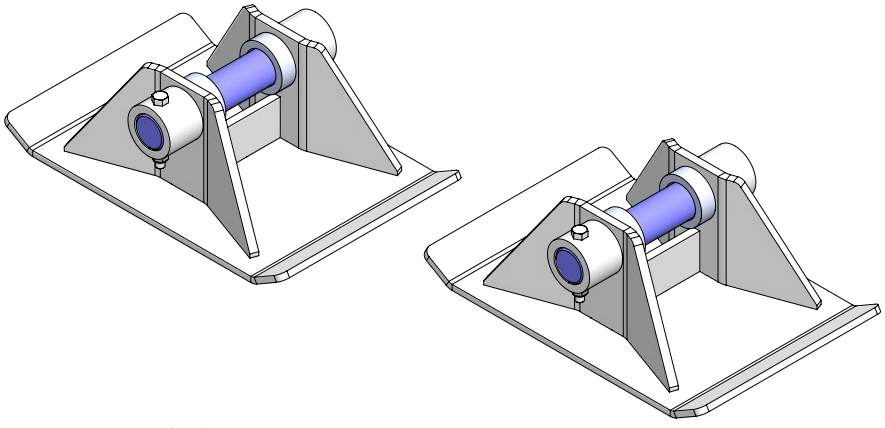
- System capacity:
  - Dynamic: 40,000 lb
  - Static: 80,000 lb
- Four-pin load cell connectors
- Connector cable assembly with potted connectors
- Single-piece bearing plate, welded securement
- Rigid mounting of load cell to frame (king pin plate not included)

Part Number/Price

Part #	Description	Price
171325	Onboard kit, king pin plate load cell system	$3,200.00

**King pin plate not included with kit*

Sand Shoe Load Cell Kit



The sand shoe load cell kit is a conversion for common semi-trailer landing gear. A pair of load cells with a 2-in diameter and 20,000 lb capacity install in place of the original sand shoe pins. Complimenting sand shoes are included to distribute the force to the load cells properly.

Complete Kit Includes

- Two 2-in, 20,000 lb load cell pins
- Two sand shoes
- Four load distribution spacers
- Two bolts for anti-rotation of load cell

Standard Features

- System capacity: 40,000 lb
- Load cell with connectors, M12
- 20 × 13 ft heavy-duty painted sand shoe

Part Number/Price

Part #	Description	Price
215049	Onboard Kit, sand shoe load cell system	$4,600.00

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Double-double Assembly

Approvals

Measurement Canada Approved



Single Assembly



Double Assembly

Standard Features

System Includes

- Three- or four-point onboard system, RL20000 load cell
- 80 ft conduit cable
- Magnetic transport alarm sensor with 15 ft of cable
- JB4SS junction box
- Hydraulic line locks and hoses
- 920i® Onboard Weigh Center
- Hydraulic pump not included
- Minimum 3,000 PSI recommended to maintain 2,200 PSI during lift

920i Onboard Weigh Center

- Epson® TM-U295 printer with splash shield
- Pre-installed 30 ft power cable, 30 ft home run c able and inclinometer
- Transport alarm LEDs
- Power switch
- Start/stop switch
- Waterproof enclosure
- Vibration mounts
- Mounting bracket to body not included

920i USB Universal with Onboard Software

- RS-232 port for connecting to ticket printer
- Standard onboard software
- USB interface board only

USB Interface Functions

- USB interface card on Port 2
- Supports weigh mode and configuration mode functions
- Supports upload of databases and 920i configuration file
- Supports download of databases, 920i configuration file, iRite®, COD file and firmware file
- Sanity checks for command errors
- Create standard database files
- Type A sealed connection available upon request

Flash Drives

- Supports USB 2.0 (optional)
- Create subdirectories by unit ID and database name
- Uses the root directory for generic files

Specifications

Capacity:
Up to 60,000 lb (30,000 kg)

Load Cell:
RL 20000I S-beam alloy steel, 20 ft cable, IP67

Junction Box:
JB4SS TuffSeal®

Rating/Material:
NEMA Type 4X
Stainless steel enclosure

Power Input:
9 to 36 VDC

Weigh Center:
920i® series weight controller
Epson® TM-U295

Approvals:
NTEP 15-102 Class III/IIIL
Measurement Canada AM-4847

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TradeRoute® HL Series

Legal for Trade Onboard Weighing System

Part Number/Price

Part #	Model #	Description	Price
TradeRoute Package (Includes 920i Weigh Center)			
131098	AN15L-3	15,000 lb × 5 lb/8,000 kg × 2 kg 3-point system, OB5-SGL5 / OB10-DBL5 modules	$15,400.00
131099	AN20L-4	20,000 lb × 5 lb/10,000 kg × 2 kg 4-point system, OB10-DBL5 (× 2) modules	$18,200.00
131100	AN30L-3	30,000 lb × 10 lb/15,000 kg × 5 kg 3-point system, OB10-SGL10 / OB20-DBL10 modules	$16,300.00
131101	AN40L-4	40,000 lb × 10 lb/20,000 kg × 5 kg 4-point system, OB20-DBL10 (× 2) modules	$18,200.00
131103	AN60L-4	60,000 lb × 10 lb/30,000 kg × 5 kg 4-point system, OB30-DBL15 (× 2) modules	$20,400.00
TradeRoute Package (Includes In-cab 920i, Alarm and Inclinometer. Printer is not included)			
221327	AN15L-3	15,000 lb × 5 lb/8,000 kg × 2 kg 3-point system, OB5-SGL5 / OB10-DBL5 modules	$14,900.00
221328	AN20L-4	20,000 lb × 5 lb/10,000 kg × 2 kg 4-point system, OB10-DBL5 (× 2) modules	$17,700.00
221329	AN30L-3	30,000 lb × 10 lb/15,000 kg × 5 kg 3-point system, OB10-SGL10 / OB20-DBL10 modules	$15,800.00
214818	AN40L-4	40,000 lb × 10 lb/20,000 kg × 5 kg 4-point system, OB20-DBL10 (× 2) modules	$17,700.00
219104	AN60L-4	60,000 lb × 10 lb/30,000 kg × 5 kg 4-point system, OB30-DBL15 (× 2) modules	$19,400.00
System Components			
131442	–	920i® Weigh Center package includes: Indicator, Epson® Ticket Printer, 25 ft load cell cable, power cable, housing, vibration mounts for installation to customer supplied mounting bracket	$5,350.00
154109	–	In-cab indicator 920i (requires 154112, 154111 and printer)	$4,150.00
154112	–	In-cab LED alarm assembly, 8 ft cable	$130.00
154111	–	Inclinometer, junction box assembly, 35 ft cable	$750.00
65635	–	Epson TM-U295 printer	$660.00
232439	–	Epson TM-U220II printer	$495.00
131811	–	Optional LED cab alarm, 35 ft	$150.00
15494	EL146HE	Four conductor hostile environment load cell cable	$2.10/ft
88956	JB4SS	JB4SS signal trim j-box with PG37 cord grips	$295.00
128123	–	Conduit, 1/2 in non metallic liquid tight polytuf®	$12.00/ft
128670	OB5-SGL5	Low profile 5,000 lb single assembly	$4,870.00
128666	OB10-DLB5	Low profile 10,000 lb double assembly	$6,140.00
127956	OB10-SGL10	Low profile 10,000 lb single assembly	$4,870.00
127958	OB20-DBL10	Low profile 20,000 lb double assembly	$6,140.00
127959	OB30-DBL15	Low profile 30,000 lb double assembly	$8,520.00
155300	OB30-TAN15	Low profile 30,000 lb single tandem assembly	$10,320.00

Note: Connect to your existing hydraulic pump with a maximum pressure of 3,000 PSI with a minimum flow of 5 GPM for best performance of lifting speed.
Note: Contact factory for other capacities not shown.

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Compact Digital Below-the-hook Scale

Crane Scale Cart 784
Universal Transport and Storage Cart

MSI-7300 Dyna-Link 2 785
Digital Tension Dynamometer

MSI Dyna-Clamp 787
Tension Meter

MSI Clamp-On 788
Load Cell

MSI Load Pin Sensors 789

MSI Load Pin Questionnaire 790

MSI Shear Web 791
Load Cell

MSI Tension Link 792
Load Cell

Shackle Dimensions 793

MSI-8000 794
RF Remote Display

MSI-8000HD 795
Digital Weight Indicator/Remote Display

MSI-8004HD 797
Digital Weight Indicator/Remote Display

MSI Scoreboards Wireless RF 799
Featuring LaserLight2™ Remote Displays

TranSend™ 800
Wireless Load Cell Interface System

MSI ScaleCore Webserver 801
Wireless Network Router

Rugged Remote 803
Remote Control

Wi-Fi Information Request 804

The following product names, logos, brands and other trademarks featured or referred to within this publication are the property of their respective trademark holders.

MSI-3460 Challenger 3

Crane Scale



Approvals

Consult Consult Consult

Standard Features

- Multi-color LED display
- Top lifting eye and bottom swivel hook
- Crosby® or equivalent with 360° non-bearing swivel hook
- Lb/kg switch selectable
- Six volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)
- Meets or exceeds OSHA, ANSI, ASME and other safety design standards (5:1 Ultimate Safety Factor)
- NTEP Certified (250 to 10,000 lb capacities)

Part Number/Price

Part #	Description	Est. Weight	Price
207063	250 lb (125 kg) 0.1 lb (0.05 kg)	22 lb	$2,750.00
208091	500 lb (250 kg) 0.2 lb (0.1 kg)	22 lb	$2,750.00
207064	1,000 lb (500 kg) 0.5 lb (0.2 kg)	22 lb	$2,930.00
208138	2,000 lb (1,000 kg) 1 lb (0.5 kg)	22 lb	$2,930.00
207065	5,000 lb (2,500 kg) 2 lb (1 kg)	39 lb	$3,620.00
208092	10,000 lb (5,000 kg) 5 lb (2 kg)	39 lb	$3,620.00
207067	15,000 lb (7,000 kg) 5 lb (2 kg)	67 lb	$5,450.00
207633	250 lb (125 kg), RF Modem 0.1 lb (0.05 kg)	22 lb	$2,930.00
208096	500 lb (250 kg), RF Modem 0.2 lb (0.1 kg) 22 lb	22 lb	$2,930.00
207635	1,000 lb (500 kg), RF Modem 0.5 lb (0.2 kg) 22 lb	22 lb	$3,110.00
208140	2,000 lb (1,000 kg), RF Modem 1 lb (0.5 kg)	22 lb	$3,110.00
207637	5,000 lb (2,500 kg), RF Modem 2 lb (1 kg) 39 lb	39 lb	$3,790.00
208098	10,000 lb (5,000 kg), RF Modem 5 lb (2 kg) 39 lb	39 lb	$3,790.00
207639	15,000 lb (7,000 kg), RF Modem 5 lb (2 kg) 67 lb	67 lb	$5,650.00
207640	250 lb (125 kg), with Wi-Fi 0.1 lb (0.05 kg) 22 lb	22 lb	$3,075.00
208100	500 lb (250 kg), with Wi-Fi 0.2 lb (0.1 kg) 22 lb	22 lb	$3,075.00
207642	1,000 lb (500 kg), with Wi-Fi 0.5 lb (0.2 kg) 22 lb	22 lb	$3,230.00
208141	2,000 lb (1,000 kg), with Wi-Fi 1 lb (0.5 kg) 22 lb	22 lb	$3,230.00
207644	5,000 lb (2,500 kg), with Wi-Fi 2 lb (1 kg) 39 lb	39 lb	$3,945.00
208102	10,000 lb (5,000 kg), with Wi-Fi 5 lb (2 kg) 39 lb	39 lb	$3,945.00
207646	15,000 lb (7,000 kg), with Wi-Fi 5 lb (2 kg)	67 lb	$5,800.00

**Please review the Overhead Weighing Safety Guide*

Options

(Contact MSI for application consultation)

- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display, TranSend™ and LaserLight2™ remote display (Typical range 100-300 ft line of sight)
- Rugged Remote (Requires 3460RF version, typical range 50 ft line of sight)
- Universal direct power supply (115/230 VAC)
- Audible alarm
- Wi-Fi communication is available for specialty applications

Specifications

Power:
6 volt rechargeable battery. 115/230 VAC battery charger is included

Resolution:
2,500 d max standard
(up to 10,000 d max non-standard)

Accuracy:
±0.1% (+1 d) of applied load

Annunciators:
COZ, net, gross, to tal, peak, low battery, lb/kg, motion, setpoints, ACK IN, ACK OUT, RF

Display:
Five-digit, 1.5 in (38 mm) LED with programmable brightness control; toggle between red, orange, green digits

Displayable Units:
Pounds or kilogram selectable

Keys/Buttons:
Power, zero, tare, user (programmable)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -40 °F to 104 °F (-40 °C to 40 °C)

Rating/Material:
NEMA 4, IP65, powder coated cast aluminum

Design Overload:
200% Safe/500% Ultimate

Operating Time:
Up to 80 hours between charging with typical use. Less with optional RF model link

Auto-Off Mode:
Select for 15, 30, 45, 60 minutes or off

Auto Sleep Mode:
Power down during non-use and power up with weight change or any key press

Service Counters:
Counts number of lifts over percentage of capacity and lifts over capacity

Filtering:
OFF, LO, HI-1, HI-2 selectable

Warranty:
One-year limited

Approvals:
NTEP 86-021: 250 to 10,000 lb
OIML R76/2006-A-NL1-21.36
CE
UKCA

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Options/Accessories

Part #	Description	Est. Weight	Price
140049	Battery assembly, 6 volt rechargeable	3 lb	$190.00
139152	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	5 lb	$220.00
139153	Battery charger, 115/230 VAC, 50/60 Hz (EU, Type 3 plug standard)	5 lb	$220.00
197201	Battery charger, 115 VAC, 50/60 Hz (NA plug standard) CEC compliant	5 lb	$255.00
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 remote display	3 lb	$180.00
178004	LaserLight2, 4 in (100 mm) six-digit RF scoreboard (requires MSI-3460 with RF modem)	21 lb	$3,350.00
178006	LaserLight2, 6 in (150 mm) six-digit RF scoreboard (requires MSI-3460 with RF modem)	37 lb	$3,850.00
Consult	AC power supply	-	$325.00
140058	AC conversion kit	1 lb	$500.00
Consult	Audible alarm	-	$420.00
222746	Retrofit kit	3 lb	$1,225.00
173014	Rugged Remote control (requires MSI-3460 with RF modem)	3 lb	$375.00
139381	MSI-8000 RF remote display (requires MSI-3460 with RF modem)	5 lb	$1,530.00
153591	MSI-8000HD ScaleCore RF remote display (requires MSI-3460 with RF modem)	-	$1,675.00
178281	MSI-8004HD AC, red/green 85~264 VAC, 47~440 Hz, 120~370 VDC	-	$1,785.00

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MSI-4260 Port-A-Weigh

Industrial Crane Scale



Shown with lifting eye

Approvals

Measurement Canada Approved

Standard Features

- Multi-color LED display
- Top lifting eye or shackle with Crosby® (or equivalent) 360° thrust -bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)

Options

(Contact MSI for application consultation)

- Rugged Remote control
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display, TranSend™ and LaserLight2™ remote display. Typically 100 to 300 ft, line of sight; for longer range consult factory
- Anti-heat shielding for high temperature applications
- Substitute bottom swivel hook with shackle
- Oversized top lifting eye or shackle
- Oversized bottom hook
- Universal direct power supply; 85 to 265 VAC, 47 to 440 Hz / 130 to 300 VDC
- Wi-Fi communication is available for specialty applications and for use with the ScaleCore Webserver
- Low headroom top adapter
- Audible alarm
- Custom top and bottom interfaces
- Factory Mutual and ATEX approved intrinsically safe models available

Part Number/Price

Part #	Description	Resolution	Est. Weight	Price
197760	500 lb (250 kg), swivel hook, F/A	0.2 lb (0.1 kg)	53 lb	$5,670.00
197761	2,000 lb (1,000 kg), swivel hook, F/A	1.0 lb (0.5 kg)	53 lb	$5,700.00
197762	5,000 lb (2,500 kg), swivel hook, F/A	1.0 lb (0.5 kg)	62 lb	$6,440.00
197763	10,000 lb (5,000 kg), swivel hook, F/A	2.0 lb (1.0 kg)	62 lb	$6,440.00
197764	20,000 lb (10,000 kg), swivel hook, F/A	5.0 lb (2.0 kg)	105 lb	$7,430.00
197765	30,000 lb (15,000 kg), swivel hook, F/A	10 lb (5.0 kg)	125 lb	$7,530.00
197766*	50,000 lb (25,000 kg), swivel hook, F/A	10 lb (5.0 kg)	235 lb	$14,200.00
197767*	70,000 lb (35,000 kg), swivel hook, F/A	20 lb (10 kg)	270 lb	$18,690.00
197768*	100,000 lb (50,000 kg), swivel hook, F/A	20 lb (10 kg)	420 lb	$27,080.00

**Comes with top shackle instead of lifting eye*
Please review the Overhead Weighing Safety Guide

Specifications

Power:
12 V rechargeable battery (115/230 VAC battery charger is included)

Resolution:
2,000 to 5,000 d standard
(Up to 10,000 d available)

Accuracy:
±0.1% +1d of applied load

Annunciators:
COZ, net, gross, total, peak, low battery, lb/kg, motion, set points

Display:
1.2 in (30 mm), 5-digit, programmable LED display, multi-color (red, orange, green)

Displayable Units:
Pounds or kilograms selectable

Keys/Buttons:
Power, zero, tare, F1 (programmable)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -40 °F t**o** 122 °F (-40 °C to 50 °C)

Rating/Material:
NEMA Type 4, IP66 marine grade 356 alloy anodized cast aluminum

Design Overload:
200% Safe / 500% Ultimate (except where noted)

Operating Time:
Up to 200 hours between charging with typical use, less with optional RF modem

Auto-Off Mode:
Select for 15, 30, 45 minutes, 1 hour or off

Auto Sleep Mode:
Power down during non-use and power up with weight change or any key press

Service Counters:
Counts number of lifts over percentage of capacity and lifts over capacity

Filtering:
OFF, LO, HI-1, HI-2 selectable

Warranty:
One-year limited

Approvals:
NTEP 19-122: 500 to 70,000 lb
Measurement Canada AM-6198: 500 to 5,000 lb
Measurement Canada AM-6249:
10,000 to 20,000 lb

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Options/Accessories

Part #	Description	Est. Weight	Price
150971	MSI RF modem option kit (used with MSI-4260, MSI-4260M, MSI-9600HT)	-	$265.00
139381	MSI-8000 RF remote display (requires MSI-4260 with RF modem)	5 lb	$1,530.00
173014	RF Rugged Remote control (requires MSI-4260 with RF modem)	3 lb	$375.00
153591	MSI-8000HD remote display, AC power and tilt bracket option (requires MSI-4260 equipped with RF modem)	3 lb	$1,675.00
178281	MSI-8004HD AC, red/green 85~264 VAC, 47~440 Hz, 120~370 VDC (requires MSI-4260 equipped with RF modem)	-	$1,785.00
159221	Universal crane scale transport cart	180 lb	$1,425.00
178004	LaserLight2, 4 in (100 mm) six-digit RF scoreboard (requires MSI-4260 equipped with RF modem)	21 lb	$3,350.00
178006	LaserLight2, 6 in (150 mm) six-digit RF scoreboard (requires MSI-4260 equipped with RF modem)	37 lb	$3,850.00
Consult	AC direct power supply	-	$560.00
Consult	Audible alarm	-	$420.00
Consult	Anti-heat shield	-	$1,125.00
219296	Retrofit kit	5 lb	$2,650.00
176956	Wi-Fi modem option kit (used in MSI-4260, MSI-4260M, MSI-6360, MSI-9600HT)	-	$490.00
150367	Battery assembly, 12 V rechargeable	7 lb	$170.00
138006	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	4 lb	$360.00
138007	Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard)	4 lb	$370.00
138008	Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard)	4 lb	$370.00
149549	Universal 115/ 230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 remote display	3 lb	$180.00
Sub Hook with Shackle			
Consult	500 to 10,000 lb, 6.5 ton shackle	-	Consult
Consult	20,000 to 30,000 lb, 17 ton shackle	-	Consult
Consult	50,000 lb, 25 ton shackle	-	Consult
Consult	70,000 lb, 40 ton shackle	-	Consult
Consult	100,000 lb, 55 ton shackle	-	Consult
Oversize Lifting Eye/Shackle			
Consult	500 to 10,000 lb capacity	-	Consult
Consult	20,000 to 30,000 lb capacity, adapter with 25 ton shackle	-	Consult
Consult	50,000 to 70,000 lb capacity	-	Consult
Consult	100,000 lb capacity	-	Consult

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MSI-4260 IS Port-A-Weigh

Intrinsically Safe Crane Scale



Approvals

Measurement Canada Approved

Standard Features

- LED display
- Top lifting eye or shackle with Crosby® (or equivalent) 360° thrust- bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)

(Contact MSI for application consultation)

Part Number/Price

Part #	Description	Resolution	Price
156013	500 lb (250 kg), swivel hook	0.2 lb (0.1 kg)	$7,650.00
156014	2,000 lb (1,000 kg), swivel hook	1.0 lb (0.5 kg)	$7,650.00
156015	5,000 lb (2,500 kg), swivel hook	1.0 lb (0.5 kg)	$7,650.00
156016	10,000 lb (5,000 kg), swivel hook	2.0 lb (1.0 kg)	$7,650.00
156017	20,000 lb (10,000 kg), swivel hook	5.0 lb (2.0 kg)	$9,700.00
156018	30,000 lb (15,000 kg), swivel hook	10 lb (5.0 kg)	$9,700.00
156019	50,000 lb (25,000 kg), swivel hook	10 lb (5.0 kg)	$15,500.00
156020	70,000 lb (35,000 kg), swivel hook	20 lb (10 kg)	$19,500.00
156021	100,000 lb (50,000 kg), swivel hook	20 lb (10 kg)	$29,000.00

Capacities over 70,000 lb are not NTEP

Options/Accessories

Part #	Description	Price
170606	Battery charger	$350.00
167777	Spare battery	$310.00

**Please review the Overhead Weighing Safety Guide*

Specifications

Power:
12 V rechargeable battery
(115/230 VAC approved battery charger is included)

Resolution:
3,000 to 5,000 d standard
(up to 10,000 d available)

Accuracy:
± (0.1% +1 d) of applied load

Annunciators:
COZ, net, gross, total, peak, low battery, lb/kg, motion, setpoints

Display:
Five-digit, 1.2 in (30 mm) LED with programmable brightness control

Displayable Units:
Pounds or kilograms selectable

Keys/Buttons:
Power, zero, tare, Mode F1 (programmable)

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)

Rating/Material:
NEMA Type 4, IP66 marine grade 356 alloy anodized cast aluminum

Design Overload:
200% Safe / 500% Ultimate (except where noted)

Operating Time:
Up to 80 hours between charging with typical use

Auto-Off Mode:
Select for 15, 30, 45 minutes, 1 hour or Off

Auto Sleep Mode:
Power down during non-use and power up with weight change or any key press

Service Counters:
Counts number of lifts over percentage of capacity and lifts over capacity

Filtering:
OFF, LO, HI-1, HI-2 selectable

Warranty:
One-year limited

Intrinsic Safety:
USA Listings
FM16US0156X
IS Class I, Division 1, Groups C, D; T4 - PN 184530
IS Class II, Division 1, Groups, E, F, G; T4; Class III, Division 1 - PN 184530
Class I, Zone 0, AEx ia IIB T4 Ga - PN 184530
Class I, Zone 20, AEx ia IIIC T135°C Da - PN 184530
Ta = -20 °C to +50 °C
Canada Listings
FM16CA0092X
Ex ia Class I, Division 1, Groups C, D; T4 - PN 184530
Ex ia Class II, Division 1, Groups E, F, G, Class III, Division 1; T4 - PN 184530
Class I, Zone 0, Ex ia IIB T4 Ga - PN 184530
Class I, Zone 20, Ex ia IIIC T135°C Da - PN 184530
TA = -10 °C to +50 °C
ATEX / UKEX Listings
FM18ATEX0052X
FM21UKEX0104X
II 1 G Ex ia IIB T4 Ga
II 1 D Ex ia IIIC T135°C Da
-10 °C Ta +50 °C

Approvals:
NTEP 19-122: 500 to 70,000 lb
Measurement Canada AM-6198: 500 to 5,000 lb
Measurement Canada AM-6249:
10,000 to 20,000 lb
cFMus Approved

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MSI-4260M Port-A-Weigh

Industrial Crane Scale



Standard Features

- LCD display
- IP66 cast aluminum
- Top lifting eye or shackle with Crosby® (or equivalent) 360° thrust -bearing swivel hook
- Battery operated, six (6) D cell 1.5V alkaline batteries or 12 volt rechargeable battery (115/230 VAC battery charger is included)

Options

(Contact MSI for application consultation)

- Rugged Remote
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display, TranSend™ and LaserLight2™ remote display
- Wi-Fi communication available for specialty applications
- Substitute bottom swivel hook with shackle
- Oversized top lifting eye or shackle
- Oversized bottom hook
- Universal direct power supply; 85 to 265 VAC, 47 to 440 Hz/130 to 300 VDC
- Low headroom top adapter
- Audible alarm
- Custom top and bottom interfaces

Approvals

Measurement Canada Approved

Part Number/Price

Part #	Description	Resolution	Est. Weight	Price
Battery				
201951	500 lb (250 kg) with 12V battery F/A	0.2 lb (0.1 kg)	53 lb	$5,650.00
201953	2,000 lb (1,000 kg) with 12V battery F/A	1.0 lb (0.5 kg)	53 lb	$5,650.00
201954	5,000 lb (2,500 kg) with 12V battery F/A	1.0 lb (0.5 kg)	62 lb	$6,150.00
201955	10,000 lb (5,000 kg) with 12V battery F/A	2.0 lb (1.0 kg)	62 lb	$6,150.00
201956	20,000 lb (10,000 kg) with 12V battery F/A	5.0 lb (2.0 kg)	105 lb	$8,225.00
201957	30,000 lb (15,000 kg) with 12V battery F/A	10 lb (5.0 kg)	125 lb	$8,650.00
201958	50,000 lb (25,000 kg) with 12V battery F/A	10 lb (5.0 kg)	235 lb	$13,200.00
201959	70,000 lb (35,000 kg) with 12V battery F/A	20 lb (10 kg)	270 lb	$16,850.00
201960	100,000 lb (50,000 kg) with 12V battery F/A	20 lb (10 kg)	420 lb	$26,000.00
D-Cell Battery				
201999	500 lb (250 kg) with D-cell battery F/A	0.2 lb (0.1 kg)	53 lb	$5,650.00
202000	2,000 lb (1,000 kg) with D-cell battery F/A	1.0 lb (0.5 kg)	53 lb	$5,650.00
202001	5,000 lb (2,500 kg) with D-cell battery F/A	1.0 lb (0.5 kg)	62 lb	$6,150.00
202002	10,000 lb (5,000 kg) with D-cell battery F/A	2.0 lb (1.0 kg)	62 lb	$6,150.00
202003	20,000 lb (10,000 kg) with D-cell battery F/A	5.0 lb (2.0 kg)	105 lb	$8,225.00
202004	30,000 lb (15,000 kg) with D-cell battery F/A	10 lb (5.0 kg)	125 lb	$8,650.00
202005	50,000 lb (25,000 kg) with D-cell battery F/A	10 lb (5.0 kg)	235 lb	$13,200.00
202006	70,000 lb (35,000 kg) with D-cell battery F/A	20 lb (10 kg)	270 lb	$16,850.00
202007	100,000 lb (50,000 kg) with D-cell battery F/A	20 lb (10 kg)	420 lb	$26,000.00

Capacities over 70,000lb are not NTEP and capacities over 20,000 lb are not currently Measurement Canada

**Please review the Overhead Weighing Safety Guide*

Specifications

Power:
Battery operated, six (6) D cell 1.5 V alkaline batteries or 12 V rechargeable battery (115/230 VAC battery charger is included)

Resolution:
Max NTEP Approved Class III: 2,500 d
Max NTEP Approved Class IIIL: 5,000 d
Max Non-NTEP Approved: 10,000 d

Accuracy:
±0.1% +1 d of applied load

Annunciators:
COZ, battery level, net, total, lb/kg, stability, RF and setpoint LEDs

Display:
Five-digit, 1.75 in (44.5 mm) LCD with programmable brightness control

Displayable Units:
Pounds or kilograms select able

Keys/Buttons:
Power: Turns unit on or off
Zero: Zeros applied load up to 100% of capacity (limited range in NTEP configuration)
Tare: Tares applied load and displays weight in Net mode
User: Programmable as test, total, unit, peak hold, net/gross, view total and print

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -20 °F to 122 °F (-28 °C to 50 °C)

Rating/Material:
IP66 cast aluminum

Design Overload:
200% Safe / 500% Ultimate (except where noted)

Operating Time:
Six (6) D Cell 1.5V alkaline batteries:
Up to 1,000 hours of battery life with typical use, less with RF modem
12 volt rechargeable battery: Up to 250 hours between charging with typical use, less with RF modem

Auto-Off Mode:
Powers off after the scale is not used for the set time (in minutes); 15, 30, 45, 60 or OFF selectable

Auto Sleep Mode:
Power down during non-use after the set time (in minutes) and powers up with weight change or any key press; 5, 15, 30 or OFF selectable

Service Counters:
Counts number of lifts over percentage of capacity and lifts over capacity

Filtering:
OFF, LO, HI-1 or HI-2 selectable

Radio Link:
802.15.4 at 2.4 GHz

Radio Effective Range:
Typically 100 to 300 ft line of sight

Warranty:
One-year limited

Approvals:
NTEP 19-122: 500 to 70,000 lb
Measurement Canada AM-6198: 500 to 5,000 lb
Measurement Canada AM-6249:
10,000 to 20,000 lb

MSI-4260M Port-A-Weigh

Industrial Crane Scale

Options/Accessories

Part #	Description	Est. Weight	Price
150971	MSI RF modem option kit (used in MSI-4260, MSI-4260M, MSI-9600HT)	-	$265.00
139381	MSI-8000 RF remote display (requires MSI-4260M with RF modem)	5 lb	$1,530.00
173014	RF Rugged Remote control (requires MSI-4260M with RF modem)	3 lb	$375.00
153591	MSI-8000HD remote display, AC power and tilt bracket option (requires MSI-4260M equipped with RF modem)	3 lb	$1,675.00
178281	MSI-8004HD AC, red/green 85~264 VAC, 47~440 Hz, 120~370 VDC	-	$1,785.00
159221	Universal crane scale transport cart	180 lb	$1,425.00
178004	LaserLight2, 4 in (100 mm) six-digit RF scoreboard (requires MSI-4260M equipped with RF modem)	21 lb	$3,350.00
178006	LaserLight2, 6 in (150 mm) six-digit RF scoreboard (requires MSI-4260M equipped with RF modem)	37 lb	$3,850.00
176956	Wi-Fi modem option kit (used in MSI-4260, MSI-4260M, MSI-6360, MSI-9600HT)	-	$490.00
219297	Retrofit kit	-	$2,775.00
Accessories			
150367	Battery assembly, 12 V rechargeable	7 lb	$170.00
138006	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	4 lb	$360.00
138007	Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard)	4 lb	$370.00
138008	Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard)	4 lb	$370.00
149549	Universal 115/ 230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 remote display	3 lb	$180.00
Sub Hook with Shackle			
Consult	500 to 10,000 lb, 6.5 ton shackle	-	Consult
Consult	20,000 to 30,000 lb, 17 ton shackle	-	Consult
Consult	50,000 lb, 25 ton shackle	-	Consult
Consult	70,000 lb, 40 ton shackle	-	Consult
Consult	100,000 lb, 55 ton shackle	-	Consult
Oversize Lifting Eye/Shackle			
Consult	500 to 10,000 lb capacity	-	Consult
Consult	20,000 to 30,000 lb capacity, adapter with 25 ton shackle	-	Consult
Consult	50,000 to 70,000 lb capacity	-	Consult
Consult	100,000 lb capacity	-	Consult

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MSI-4260M Port-A-Weigh

Marine Crane Scale



Standard Features

- LCD display
- IP66 cast aluminum
- Top lifting eye with lower link interface
- Battery operated, six (6) D cell 1.5 V alkaline batteries

Options

(Contact MSI for application consultation)

- Rugged Remote
- RF modem install for connectivity to MSI-8000, MSI-8000HD, MSI-8004HD, TranSend™ and LaserLight2™ remote display. Typically 100 to 300 ft, line of sight; for longer range consult factory.
- Wi-Fi communication is available for specialty applications

Approvals

Measurement Canada Approved

Part Number/Price

Part #	Description	Resolution	Est. Weight	Price
194593	5,000 lb	1.0 lb (0.5 kg)	58 lb	$5,750.00
196908	5,000 lb w/RF	1.0 lb (0.5 kg)	58 lb	$6,075.00

Options/Accessories

Part #	Description	Est. Weight	Price
139381	MSI-8000 RF remote display (requires MSI-4260M with RF modem)	5 lb	$1,530.00
173014	RF Rugged Remote control (requires MSI-4260M with RF modem)	3 lb	$375.00
153591	MSI-8000HD remote display, AC power and tilt bracket option (requires MSI-4260M equipped with RF modem)	3 lb	$1,675.00
178281	MSI-8004HD AC, red/green 85~264 VAC, 47~440 Hz, 120~370 VDC	-	$1,785.00
159221	Universal crane scale transport cart	180 lb	$1,425.00
178004	LaserLight2, 4 in (100 mm) six-digit RF scoreboard (requires MSI-4260M equipped with RF modem)	21 lb	$3,350.00
178006	LaserLight2, 6 in (150 mm) six-digit RF scoreboard (requires MSI-4260M equipped with RF modem)	37 lb	$3,850.00
176956	Wi-Fi modem option kit (used in MSI-4260, MSI-4260M, MSI-6360, MSI-9600HT)	-	$490.00

**Please review the Overhead Weighing Safety Guide*

Specifications

Power:
Battery operated, six (6) D cell 1.5 V alkaline batteries

Resolution:
Max NTEP Approved Class IIIL: 5,000 Divisions
Max Non NTEP Approved: 10,000 Divisions

Accuracy:
±(0.1% +1 d) of applied load

Annunciators:
COZ, battery level, net, total, lb/kg, stability, RF and setpoint LEDs

Display:
Five-digit, 1.75 in (44.5 mm) LCD with programmable brightness control

Displayable Units:
Pounds or kilograms selectable

Keys/Buttons:
Power: Turns unit on or off
Zero: Zeros applied load up to 100% of capacity (limited range in NTEP configuration),
Tare: Tares applied load and displays weight in net mode
User: Programmable as test, total, unit, peak hold, net/gross, view total and print

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -20° F to 122° F (-28 °C to 50 °C)

Rating/Material:
IP66 cast aluminum

Design Overload:
200% Safe / 500% Ultimate

Operating Time:
Up to 1,000 hours of battery life with typical use, less with RF modem option

Auto-Off Mode:
Powers off after the scale is not used for the set time (in minutes); 15, 30, 45, 60 or off selectable

Auto Sleep Mode:
Power down during non-use after the set time (in minutes) and powers up with weight change or any key press; 5, 15, 30 or OFF selectable

Service Counters:
Counts number of lifts over percentage of capacity and lifts over capacity

Filtering:
OFF, LO, HI-1 or HI-2 selectable

Radio Link:
802.15.4 at 2.4 GHz

Radio Effective Range:
Typically 100 to 300 ft line of sight

Warranty:
One-year limited

Approvals:
NTEP 19-122
Measurement Canada AM-6198

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MSI-9600HT Hi-torque Port-A-Weigh Plus

Crane Scale



Approvals

NOM *

Standard Features

- Multi-color LED display
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)
- Shackle is optional and Crosby® fixed hook provided as standard
- Hi-torque load train designed for use with powered rotation

Part Number/Price

Part #	Description	Resolution	Est. Weight	Price
214371	10,000 lb (5000 kg) F/A	2.0 lb (1.0 kg)	62 lb	$14,400.00
214370	30,000 lb (15,000 kg) F/A	10 lb (5.0 kg)	125 lb	$14,400.00
214369	70,000 lb (35,000 kg) F/A	20 lb (10 kg)	270 lb	$20,400.00
214477	100,000 lb (50,000 kg) F/A	20 lb (10 kg)	420 lb	Consult
214474	120,000 lb (60,000 kg) F/A	50 lb (20 kg)	550 lb	Consult
214479*	200,000 lb (100,000 kg) F/A	100 lb (50 kg)	1,100 lb	Consult

** 400% Ultimate overload*

Options/Accessories

Part #	Description	Est. Weight	Price
144126	Top lifting shackle 9.5 ton for 10,000 lb cap unit	-	Consult
141992	Top lifting shackle Crosby® G2130 17 ton for 30,000 lb cap unit	-	Consult
146335	Top lifting shackle Crosby® G2140 40 ton for 70,000 lb cap unit	-	Consult
146336	Top lifting shackle Crosby® G2140 55 ton for 120,000 lb cap unit	-	Consult
150971	MSI RF modem option kit (used in MSI-4260, MSI-4260M, MSI-9600HT)	3 lb	$265.00
173014	RF Rugged Remote control (requires MSI-9600HT with RF modem)	3 lb	$375.00
153591	MSI-8000HD RF remote display AC powered (no A/D)	180 lb	$1,675.00
178004	LaserLight2, 4 in (100 mm) six-digit RF scoreboard	21 lb	$3,350.00
178006	LaserLight2, 6 in (150 mm) six-digit RF scoreboard	37 lb	$3,850.00
159221	Universal crane scale transport cart	-	$1,425.00
Consult	AC direct power supply	-	$560.00
Consult	Anti-heat shield	-	$1,125.00
Consult	Audible alarm	-	$420.00
176956	Wi-Fi modem option kit (used in MSI-4260, MSI-4260M, MSI-6360, MSI-9600HT)	-	$490.00
219713	Retrofit kit	-	$2,700.00
Accessories			
150367	Battery assembly, 12 V rechargeable	7 lb	$170.00
138006	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	4 lb	$360.00
138007	Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard)	4 lb	$370.00
138008	Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard)	4 lb	$370.00

**Please review the Overhead Weighing Safety Guide*

Options

(Contact MSI for application consultation)

- Top shackle
- Rugged Remote
- Anti-heat shielding
- Substitute bottom hook with shackle
- Oversized top or shackle
- Oversized bottom hooks
- Universal direct power supply
- Wi-Fi communication
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display, TranSend™ and LaserLight2™ remote display
- Typically 100 to 300 ft, line of sight; for longer range consult factory
- Low headroom top adapter
- Audible alarm
- Custom top and bottom interfaces

Specifications

Power:
12 V rechargeable battery, 115/230 VAC battery charger included

Resolution:
2,400 to 5,000 d standard
(Up to 10,000 d available)

Accuracy:
10,000 to 120,000 lb: ± (0.1% +1 d) of capacity
200,000 lb: ± (0.2% +1 d) of capacity

Display:
1.5 in (38 mm, 6-digit, programmable LED display, multi-color (red, orange, and green)

Displayable Units:
Pounds or kilograms selectable

Keys/Buttons:
Power: Turns unit on or off
Zero: Zeros applied load up to 100% of capacity
Tare: Tares applied load and displays weight in net Mode F1: Programmable as test, units, net/gross, total and peak hold

Temperature:
Operating: 14 °F to 131 °F (-10 °C t o 55 °C)

Rating/Material:
NEMA Type 4, IP66, marine grade 356 alloy anodized cast aluminum

Design Overload:
200% Safe / 500% Ultimate (except where noted)

Operating Time:
Up to 250 hours w/o radio
Up to 75 hours w/ radio

Auto-Off Mode:
Powers off after the scale is not used for the set time (in minutes); 15, 30, 45, 60 or off selectable

Auto Sleep Mode:
Power down during non-use after the set time (in minutes) and powers up with weight change or any key press; 5, 15, 30 or OFF selectable

Service Counters:
Counts number of lifts over percentage of capacity and lifts over capacity

Filtering:
OFF, LO, HI-1 or HI-2 selectable

Radio Link:
802.15.4 at 2.4 GHz

Radio Link Effective Range:
Typically 100 to 300 ft line of sight

Warranty:
One-year limited

Approvals:
NOM

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MSI-6360 Trans-Weigh

Crane Scale



Approvals

Standard Features

- 12-volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)
- Top lifting eye or shackle with Crosby® (or equivalent) 360° thrust-bearing swivel hook
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display, TranSend™ and LaserLight2™ remote display. Typically, 100 to 300 ft, line of sight; for longer range consult factory.
- Meets or exceeds OSHA, ANSI, ASME and other safety design standards (5:1 Ultimate Safety Factor)

Part Number/Price

Part #	Description	Resolution	Est. Weight	Price
215829	500 lb (250 kg) F/A	0.2 lb (0.1 kg)	53 lb	$6,150.00
215830	2,000 lb (1000 kg) F/A	1.0 lb (0.5 kg)	53 lb	$6,150.00
215831	5,000 lb (2500 kg) F/A	1.0 lb (0.5 kg)	62 lb	$6,100.00
215832	10,000 lb (5000 kg) F/A	2.0 lb (1.0 kg)	62 lb	$6,675.00
215833	20,000 lb (10,000 kg) F/A	5.0 lb (2.0 kg)	105 lb	$7,725.00
215834	30,000 lb (15,000 kg) F/A	10 lb (5.0 kg)	125 lb	$7,825.00
215835	50,000 lb (25,000 kg) F/A	10 lb (5.0 kg)	235 lb	$15,600.00
215836	70,000 lb (35,000 kg) F/A	20 lb (10 kg)	270 lb	$22,500.00
215837	100,000 lb (50,000 kg) F/A	20 lb (10 kg)	420 lb	$33,100.00

**Please review the Overhead Weighing Safety Guide*

Options

(Contact MSI for application consultation)

- Anti-heat shielding for high-temperature applications
- Rugged Remote
- Substitute bottom swivel hook with shackle
- Oversized top lifting eye or shackle
- Oversized bottom hook
- Low headroom top adapter
- Universal direct power supply; 85 to 265 VAC, 47 to 440 Hz/130 to 300 VDC
- Wi-Fi communication
- Custom top and bottom interfaces
- Crane scale cart

Specifications

Power:
12 V rechargeable battery, 115/230 VAC battery charger included

Resolution:
3,000 to 5,000 d standard
(Up to 10,000 d available)

Accuracy:
± (0.1% +1 d) of capacity

Displayable Units:
Pounds or kilograms selectable

Keys/Buttons:
On/Off

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -40 °F to 176 °F (-40 °C to 80 °C)

Rating/Material:
NEMA Type 4, IP66, marine grade 356 alloy anodized cast aluminum

Design Overload:
200% Safe/500% Ultimate

Operating Time:
Up to 75 hours between charging with typical use

Radio Link:
802.15.4 at 2.4 GHz

Radio Link Effective Range:
Typically 100 to 300 ft line of sight

Calibration:
Digital via MSI ScaleCore remote device

Warranty:
One-year limited

Approvals:
NTEP 19-122: 500 to 70,000 lb

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MSI-6360 Trans-Weigh

Crane Scale

Options/Accessories

Part #	Description	Est. Weight	Price
144773	MSI RF Module, XBEE-PRO 802.15.4		$155.00
139381	MSI-8000 RF remote display	5 lb	$1,530.00
173014	Rugged Remote control	3 lb	$375.00
153591	MSI-8000HD RF remote display AC powered (no A/D)	4 lb	$1,675.00
178281	MSI-8004HD AC, red/green 85~264 VAC, 47~440 Hz, 120~370 VDC	-	$1,785.00
178004	4 in LaserLight2 MSI RF	21 lb	$3,350.00
178006	6 in LaserLight2 MSI RF	37 lb	$3,850.00
159221	Universal crane scale transport cart	180 lb	$1,425.00
175308	Wi-Fi Modem 802.11 b/g		$155.00
Consult	AC power supply	-	$560.00
Consult	Anti-heat shield	-	$1,125.00
Consult	Audible alarm	-	$420.00
219666	Retrofit kit	5 lb	$3,000.00
150367	Battery assembly, 12 volt rechargeable	7 lb	$170.00
138006	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	4 lb	$360.00
138007	Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard)	4 lb	$370.00
138008	Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard)	4 lb	$370.00
Sub Hook with Shackle			
Consult	500 to 10,000 lb, 6.5 ton shackle	-	Consult
Consult	20,000 to 30,000 lb, 17 ton shackle	-	Consult
Consult	50,000 lb, 25 ton shackle	-	Consult
Consult	70,000 lb, 40 ton shackle	-	Consult
Consult	100,000 lb, 55 ton shackle	-	Consult
Oversize Lifting Eye/Shackle			
Consult	500 to 10,000 lb capacity	-	Consult
Consult	20,000 to 30,000 lb capacity, adapter with 25 ton shackle	-	Consult
Consult	50,000 to 70,000 lb capacity	-	Consult
Consult	100,000 lb capacity	-	Consult

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RL101 Scale

Compact Digital Below-the-hook Scale





Remote Control

Standard Features

- Low headroom (14.5 to 16.65 in)
- Infrared remote control (up to 25 ft)
- Carrying case
- Single and multi-point calibration
- Upper and lower shackles
- Lift and weigh scale (or device)

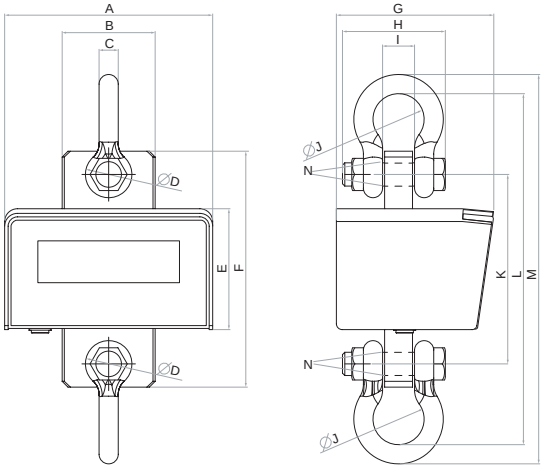
Part Number/Price

Part #	Description	Resolution	Est. Weight	Price
219144	RL101-3k, 3,000 lb capacity, below-the-hook, multi-range	0 to 600 lb: 0.2 lb 601 to 1,500 lb: 0.5 lb 1,501 to 3,000 lb: 1 lb	25 lb	$1,838.00
219145	RL101-6k, 6,000 lb capacity, below-the-hook, multi-range	0 to 1,500 lb: 0.5 lb 1,501 to 3,000 lb: 1 lb 3,002 to 6,000 lb: 2 lb	32 lb	$2,048.00
219147	RL101-12k, 12,000 lb capacity, below-the-hook, multi-range	0 to 3,000 lb: 1 lb 3,002 to 6,000 lb: 2 lb 6.005 to 12,000 lb: 5 lb	32 lb	$2,205.00

Dimensions

RL101			
A	7.09 in (180 mm)	H	3.48 in (88.5 mm) / 4.76 in (121 mm)
B	3.15 in (80 mm)	I	3.48 in (88.5 mm) / 4.76 in (121 mm)
C	0.63 in (16 mm) / 0.87 in (22 mm)	J	1.69 in (43 mm) / 2.28 in (58 mm)
D	1.58 in (40) / 2.17 in (55 mm)	K	7.72 in (196 mm) / 7.32 in (186 mm)
E	4.09 in (104 mm)	L	13.19 in (335 mm) / 14.92 in (379 mm)
F	9.69 in (246 mm)	M	14.49 in (368 mm) / 16.65 in (423 mm)
G	5.35 in (136 mm)	N	0.83 in (21 mm) / 1.1 in (28 mm)

**Please review the Overhead Weighing Safety Guide*



Specifications

Power:
Batteries: four AA (included)

Battery Life:
Up to 40 hours, standard configuration

Resolution:
3,000 d standard

Annunciators:
COZ, net, gross, low batt, lb/kg/t, motion, active weight range and tare

Keys/Buttons:
Five key: zero, tare, mode, print and on/off

Display:
1 in (25 mm) backlight, LCD

Displayable Units:
Pounds and kilograms, selectable

Accuracy:
± 0.03% of capacity

Design Overload:
150% Safe / 500% Ultimate

Auto-Off Mode:
Off, 1-minute intervals (programmable)

Shackles:
Forged, alloy steel (6:1 safety factor)

Temperature:
Operating: 14 °F to 104 °F (-10 °C to 40 °C)

Rating/Material:
IP54
Oven-fired painted steel

Filtering:
Various: overhead weighing-dYn.0, dYn.1, dYn.2, dYn.3

Warranty:
One-year limited

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Crane Scale Cart

Universal Transport and Storage Cart



Standard Features

- Designed to hold MSI-4260, MSI-4260IS, MSI-4260M, MSI-4300, MSI-9600HT, MSI-6360
- Four swivel castors with brake
- Powder coated mild steel

Specifications

Warranty:
One-year limited

Part Number/Price

Part #	Description	Est. Weight	Price
159221	Universal MSI Crane Scale Cart	180 lb	$1,425.00
Consult	Modified versions of universal MSI Crane Scale Cart	-	Consult

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MSI-7300 Dyna-Link 2

Digital Tension Dynamometer



Shown with optional shackles

Part Number/Price

Part #	Description	Resolution	Est. Weight	Price
139162	1,000 lb (500 kg) F/A	0.5 lb (0.2 kg)	8 lb	$1,730.00
139163	2,500 lb (1,250 kg) F/A	1 lb (0.5 kg)	9 lb	$1,730.00
139164	5,000 lb (2,500 kg) F/A	2 lb (1.0 kg)	9 lb	$1,730.00
139165	10,000 lb (5,000 kg) F/A	5 lb (2.0 kg)	11 lb	$1,860.00
139166	25,000 lb (12,500 kg) F/A	10 lb (5 kg)	19 lb	$2,500.00
139167	50,000 lb (25,000 kg) F/A	20 lb (10 kg)	29 lb	$3,210.00
139168*	100,000 lb (50,000 kg) F/A	50 lb (20 kg)	65 lb	$4,200.00
Optional Configurations (for connectivity to MSI-8000 RF Remote Display) F/A				
139441	1,000 lb (500 kg) RF module	0.5 lb (0.2 kg)	8 lb	$1,960.00
139442	2,500 lb (1,250 kg) RF module	1 lb (0.5 kg)	9 lb	$1,960.00
139443	5,000 lb (2,500 kg) RF module	2 lb (1 kg)	9 lb	$1,960.00
139444	10,000 lb (5,000 kg) RF module	5 lb (2 kg)	11 lb	$2,090.00
139445	25,000 lb (12,500 kg) RF module	10 lb (5 kg)	19 lb	$2,670.00
139446	50,000 lb (25,000 kg) RF module	20 lb (10 kg)	29 lb	$3,410.00
139447*	100,000 lb (50,000 kg) RF module	50 lb (20 kg)	65 lb	$4,400.00
159168*	120,000 lb (60,000 kg) RF module includes MSI-8000	50 lb (20 kg)	57 lb	Consult
159169*	180,000 lb (90,000 kg) RF module includes MSI-8000	100 lb (50 kg)	74 lb	Consult
159170*	260,000 lb (130,000 kg) RF module includes MSI-8000	100 lb (50 kg)	100 lb	Consult
159171*	380,000 lb (190,000 kg) RF module includes MSI-8000	200 lb (100 kg)	169 lb	Consult
159172**	550,000 lb (275,000 kg) RF module includes MSI-8000	200 lb (100 kg)	336 lb	Consult
Wi-Fi				
176813	1,000 lb (500 kg) F/A with Wi-Fi	0.5 lb (0.2 kg)	8 lb	$1,950.00
176814	2,500 lb (1,250 kg) F/A with Wi-Fi	1 lb (0.5 kg)	9 lb	$2,050.00
176815	5,000 lb (2,500 kg) F/A with Wi-Fi	2 lb (1.0 kg)	9 lb	$2,050.00
176816	10,000 lb (5,000 kg) F/A with Wi-Fi	5 lb (2.0 kg)	11 lb	$2,175.00
176817	25,000 lb (12,500 kg) F/A with Wi-Fi	10 lb (5 kg)	19 lb	$2,800.00
176818	50,000 lb (25,000 kg) F/A with Wi-Fi	20 lb (10 kg)	29 lb	$3,625.00
176819	100,000 lb (50,000 kg) F/A with Wi-Fi	50 lb (20 kg)	65 lb	$4,625.00
176827	120,000 lb (60,000 kg) F/A with Wi-Fi	50 lb (20 kg)	57 lb	Consult
176828	180,000 lb (90,000 kg) F/A with Wi-Fi	100 lb (50 kg)	74 lb	Consult
176829	260,000 lb (130,000 kg) F/A with Wi-Fi	100 lb (50 kg)	100 lb	Consult
176830	380,000 lb (190,000 kg) F/A with Wi-Fi	200 lb (100 kg)	169 lb	Consult
176831	550,000 lb (275,000 kg) F/A with Wi-Fi	200 lb (100 kg)	336 lb	Consult

** 500% Ultimate overload*

*** 440% Ultimate overload*

**Please review the Overhead Weighing Safety Guide*

Standard Features

- LCD display
- Two C-cell alkaline batteries for capacities up to 10,000 lb (5,000 kg)
- Two D-cell alkaline batteries for capacities 25,000 lb (12,500 kg) and above

Options

(Contact MSI for application consultation)

- Crosby® top and bottom shackles
- Portable transport case
- Serial output cable
- Rugged Remote (control for On/Off, Zero, Tare and other functions)
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display and TranSend™. Typically 100 to 300 ft, line of sight, for longer range consult factory.
- Audible alarm

Specifications

Power:
Two each C-cell alkaline batteries for capacities up to 10,000 lb; two each D-cell alkaline batteries for capacities 25,000 to 550,000 lb

Accuracy:
0.1% FS of rated capacity (up to 100,000 lb)
0.5% FS of rated capacity (120,000 lb and above)

LED Annunciators:
Function 1, function 2, setpoint 1, setpoint 2

LCD Annunciators:
Net, center of zero, stable, battery test, peak hold, total

Display:
5-digit, 1.22 in (31 mm) tall, LCD - 50,000 lb and lower
6-digit, 1.00 in (25 mm) tall, LCD - 100,000 lb and higher

Displayable Units:
Pounds, kilograms, kilonewtons, tons, metric tons

Keys/Buttons:
On/Off, zero, hi-speed peak hold, setpoints, total, tare, auto-off, motion filter

Temperature:
Operating:
-4 °F to 140 °F (-20 °C to 60 °C)

Rating/Material:
NEMA Type 4, IP65, anodized corrosion-resistant finish
2024 aircraft grade aluminum
100,000 lb and above: Zinc plated, 4340 mild steel

Design Overload:
200% Safe/700% Ultimate* (except where noted)

Operating Time:
From 150 to 300 hours in typical use depending on unit capacity and battery configuration. Approximately 25 to 30 hours with optional RF modem link installed.

Filtering:
OFF, LO, HI selectable

Data Output:
Serial RS-232

Warranty:
Two-year limited

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MSI-7300 Dyna-Link 2

Digital Tension Dynamometer

Options/Accessories

Part #	Description	Est. Weight	Price
151357*	Shackle anchor, bolt type 3.25 ton for 500 to 5,000 lb unit	2 lb	Consult
151355*	Shackle anchor, bolt type 6.5 ton for 10,000 lb unit	3 lb	Consult
141992*	Shackle anchor, bolt type 17 ton for 25,000 lb unit	20 lb	Consult
151356*	Shackle anchor, bolt type 25 ton for 50,000 lb unit	32 lb	Consult
146336*	Shackle anchor, bolt type 55 ton for 100,000 lb unit	52 lb	Consult
151359*	Shackle anchor, bolt type 85 ton for 180,000 lb unit	103 lb	Consult
151360*	Shackle anchor, bolt type 120 ton for 260,000 lb unit	113 lb	Consult
151361*	Shackle anchor, bolt type 175 ton for 380,000 lb unit	333 lb	Consult
151358*	Shackle anchor, bolt type 250 ton for 550,000 lb unit	650 lb	Consult
139381	MSI-8000 RF remote display (requires MSI-4260 with RF modem)	5 lb	$1,530.00
153591	MSI-8000HD RF remote display, A/C powered with tilt stand (requires MSI-7300 with optional RF modem)	5 lb	$1,675.00
165313	Heavy-duty transport case with precision cut. Heavy duty foam for units up to 10,000 lb capacity	10 lb	$470.00
145076	Transport crate for 25,000 lb and 50,000 lb capacity unit	35 lb	$625.00
145073	Transport crate for 100,000 lb capacity unit	42 lb	Consult
139470	RS-232 serial cable for MSI-7300	1 lb	$180.00
178004	LaserLight2, 4 in (100 mm) six-digit RF scoreboard (requires MSI-7300 equipped with optional RF modem)	21 lb	$3,350.00
178006	LaserLight2, 6 in (150 mm) six-digit RF scoreboard (requires MSI-7300 equipped with optional RF modem)	37 lb	$3,850.00
149549	Universal 115/ 230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 remote display	3 lb	$180.00
173014	Rugged Remote control (requires MSI-7300 equipped with optional RF modem)	3 lb	$375.00
150964	RS-232 13 ft (4 m) serial cable for MSI-8000	1 lb	$220.00
139438	Audible setpoint (not available with MSI-7300RF or MSI-7300WiFi)	-	$460.00
149550	Battery charger for MSI-8000 EC plug	-	$180.00

** 2 shackles will be needed per 7300*

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MSI Dyna-Clamp

Tension Meter



Approvals

CE UKCA

Part Number/Price

Part #	Description	Tension	Est. Weight	Price
189581	MSI Dyna-Clamp tension meter	12,500 lbf (5,670 kgf / 55.60 kN)	15 lb	$5,250.00

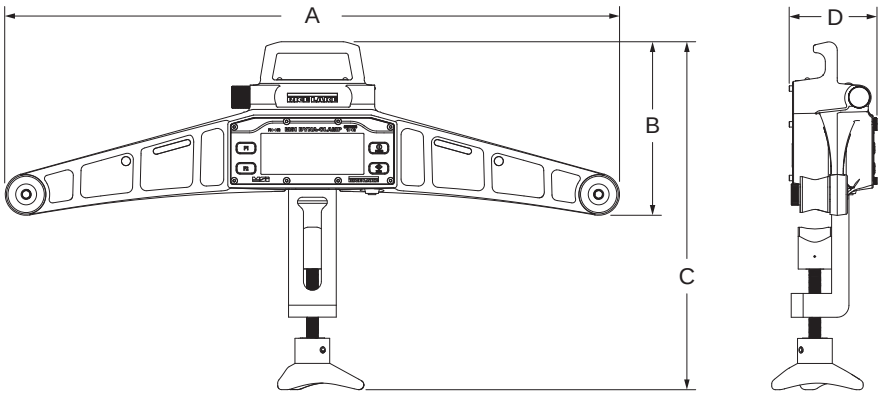
Options/Accessories

Part #	Description	Price
198418	Heavy-duty carrying case	$700.00

Dimensions

MSI Dyna-Clamp			
A	25.70 in (652.80 mm)	C	13.75 to 15.50 in (349.25 to 393.70 mm)
B	7.30 in (185.50 mm)	D	3.70 in (94 mm)

**Please review the Overhead Weighing Safety Guide*



Standard Features

- Dual line LCD display
- Two user-programmable function keys
- IP65 anodized aluminum frame
- RS-232 port
- Up to eight factory calibrations included at no additional cost

Options

(Contact MSI for application consultation)

- Heavy-duty carrying case

Specifications

Power:
Battery operated two AA cells 1.5 V alkaline batteries (can be replaced with rechargeable NiMH cells)

Resolution:
Standard: 2,500 divisions

Accuracy:
±3% of capacity

Display:
Primary display (bottom) six, 0.7 in (18 mm) numeric digits
Secondary display (top) eight, 0.5 in (13 mm) numeric digits

Displayable Units:
lbf, kgf, kN

Keys/Buttons:
Two programmable keys (user-defined) – F1, F2 (test, unit, print, scroll, actfun)
Two permanent keys – power, zero

Temperature:
Operating:
-4 °F to 122 °F (-20 °C to 50 °C)

Rating/Material:
IP65 powder-coated aluminum frame

Operating Time:
Alkaline AA-cells: 24 hours

Auto-Off Mode:
Prolongs battery life by turning power OFF after 15, 30, 45 or 60 minutes of no activity (user determined)

Setpoints:
Two dedicated setpoints for minimum and maximum allowable wire rope tension (LEDs for measurements outside of allowable range)

Wire Rope:
Diameter 3/16 in (5 mm) to 1 in (25 mm)

Max Tension:
12,500 lbf (5,670 kgf /55.60 kN)

Operator Use:
Outdoor

Storage:
Indoor

Calibration:
Up to eight factory-programmed wire rope calibrations

Warranty:
Two-year limited

Approvals:
CE Marked
UKCA

MSI Clamp-On

Load Cell



Part Number/Price

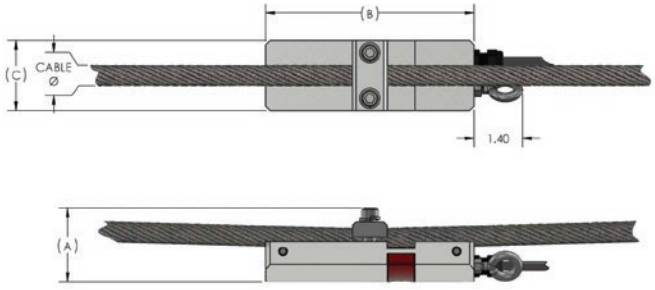
Part #	Description	Price
225957	MSI Clamp-On kit: load cell (PN 179080), MSI-7000, MSI-8000, factory setup	$3,890.00
225958	MSI Clamp-On kit: load cell (PN 179082), MSI-7000, MSI-8000, factory setup	$4,090.00
179080	Load cell assembly Clamp-On for 3/8 to 1/2 in wire rope	$810.00
179082	Load cell assembly Clamp-On for 9/16 to 3/4 in wire rope	$940.00
188816	Kit with SCT-2200 for 3/8 to 1/2 in wire rope	$1,415.00
188817	Kit with SCT-2200 for 9/16 to 3/4 in wire rope	$1,565.00

Larger diameter clamp ons available - call for pricing

Dimensions

Cable Range	P/N	A	B	C
3/8 - 1/2	**179080**	Cable + 1.70	6.00	2.00
9/16-3/4	**179082**	Cable + 1.67	6.00	2.00

**8 mm cable can be used with PN 179080*



Standard Features

- A durable solution for measuring wire rope tension and preventing overloads for cranes and hoists. Available in two envelopes for accommodating the most common wire ropes. With the SCT-2000, weight-based setpoints can provide the operator alerts and safety shut-offs based on unsafe load conditions.

Options

(Contact MSI for application consultation)

- Custom sizes available on request
- Pair with an SCT transmitter for basic safety functions

Specifications

Rating/Material:
4340 steel, zinc plated IP68

Output Resistance:
350 ohm

System Accuracy of Calibrated Capacity:
3 to 5%

Cable Length:
20 ft integral cable with blunt end termination

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal



Optional SCT-2200 transmitter

OVERHEAD WEIGHING

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Custom Outputs Available

MSI Load Pin Sensors



Standard Features

- Customized for individual integrated solutions where it will be permanently installed to monitor loads and overloading protection. Machined from 17-4 stainless steel ensures safety, strength and corrosion resistance.

(Contact MSI for application consultation)

For most overhead weighing applications, traditional scales are an ideal solution. However, applications with limited to no headroom require specialty equipment beyond even reduced-height or low-profile crane scales.

One such solution is an MSI load pin sensor. A load pin sensor is a type of load cell that directly replaces clevis, pivot, normal shaft or equalizer pins. Load pin sensors are designed to be permanently installed, so they can continuously monitor vertical or horizontal tension. An integrated load pin provides load monitoring and overload protection without impacting headroom to promote safety and to prevent costly equipment damage.

Rice Lake's industry leading engineers design and manufacture custom load pin sensors for any application. Every load pin is constructed from stainless steel for safety, strength (minimum 5:1) and corrosion resistance.

To receive a quote for a load pin sensor, complete the load pin questionnaire on page 790 or online at www.ricelake.com/questionnaires. For further assistance, contact an MSI overhead weighing specialist.

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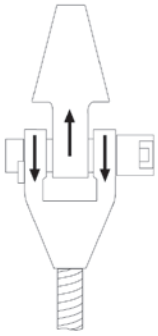
Load Pin Questionnaire

RICE LAKE WEIGHING SYSTEMS

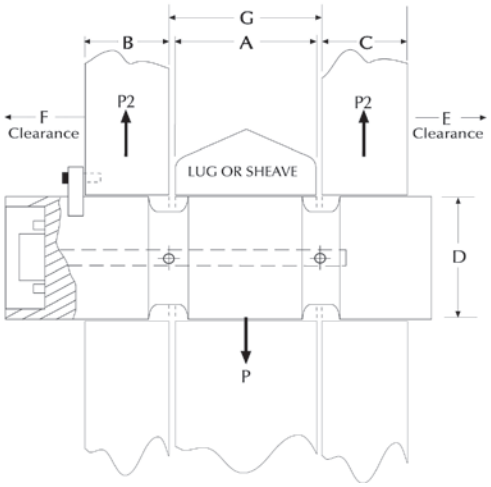
Company: Name:

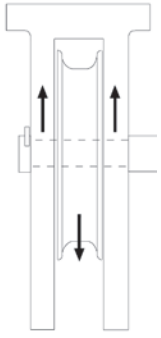
Date: Phone: Email:

Load Pin Critical Dimensions



Standard Load Sensing Clevis Pin for Wire Rope Sockets Dead-Ends





Sheave/Pulley Load Pins Equalizer/Idler

A *WIDTH* Inch

E *CLEARANCE* Inch

B *WIDTH* Inch

F *CLEARANCE* Inch

C *WIDTH* Inch

G *WIDTH* Inch

D *DIAMETER* Inch

NOTE: Minimum clearance between A and G is 0.0625 inch

Load Pin Data

Lube port: ☐ *Yes* ☐ *No* *No. of exits*

Hoist capacity: *tons*

Part of wire rope:

Sensor capacity: *tons*

Safety factor: ☐ *3 : 1* ☐ *5 : 1* ☐ *7 : 1* ☐ *10 : 1*

Application:

Accuracy requirement:

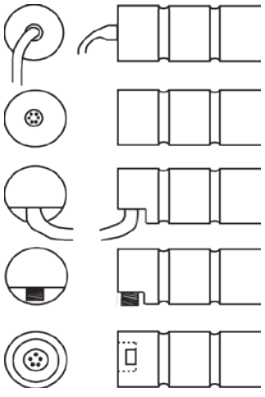
Temperature requirement:

Output requirement:

Material testing requirements:

Load vector orientation/alignment: ☐ ← ☐ → ☐ ↑ ☐ ↓

Cable Connections



☐ End-mounted cable:

☐ End-mounted connector (standard):

☐ Side-mounted cable:

☐ Side-mounted connector

☐ Recessed connector:

Sensor's cable length: *feet*

Comments:

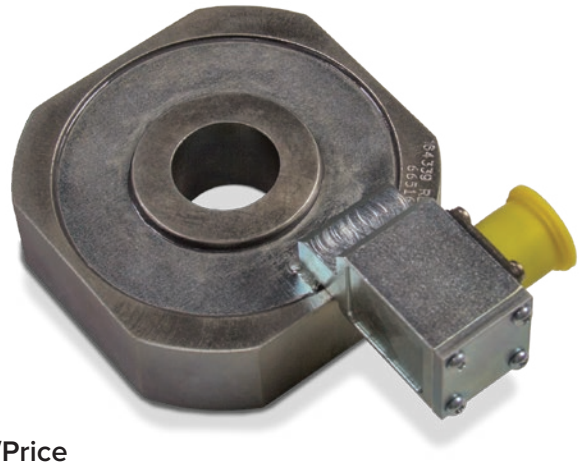
Form #0201 Rev. 2 09/2025

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MSI Shear Web

Load Cell



Standard Features

- Designed to be placed above the trunnion of a load block, this integrated low-profile load cell eliminates headroom loss
- Off-axis compensation

(Contact MSI for application consultation)

Specifications

Accuracy (Static Load):
0.5 to 1% system accuracy of rated capacity

Rating/Material:
4340 alloy steel, zinc plated
IP67

Resistance:
700 ohm

Part Number/Price

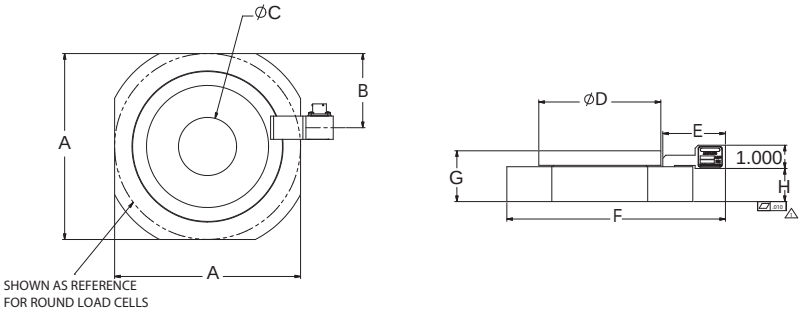
Part #	Description	Est. Weight	Price
160651	10,000 lb/5,000 kg capacity	5 lb	Consult
163595	20,000 lb/10,000 kg capacity	10 lb	Consult
163596	40,000 lb/20,000 kg capacity	20 lb	Consult
163829	60,000 lb/30,000 kg capacity	30 lb	Consult
163597	80,000 lb/40,000 kg capacity	34 lb	Consult
163598	100,000 lb/50,000 kg capacity	38 lb	Consult
159550	120,000 lb/60,000 kg capacity	60 lb	Consult
163599	160,000 lb/80,000 kg capacity	105 lb	Consult
163600	200,000 lb/100,000 kg capacity	215 lb	Consult

Options/Accessories

Part #	Description	Price
165978	Load cell to MSI-7001 interface cable, 6.5 ft	$345.00
165979	Load cell to MSI-7001 interface cable, 10 ft	$365.00
165980	Load cell to MSI-7001 interface cable, 16 ft	$400.00
165989	Load cell to MSI-7001 interface cable, 20 ft	$430.00
165990	Load cell to MSI-7001 interface cable, 25 ft	$460.00
165991	Load cell to MSI-7001 interface cable, 32 ft	$535.00
55417	Connector, cable plug with strain relief	$42.00

Dimensions

Part #	Capacity	A	B	C (+0.005-0.000)	D	E	F	G	H	Required Hook Shank Diameter (+0.000,-0.005)
160651	10,000 lb	3.500 in	1.350 in	1.005 in	2.450 in	1.880 in	4.905 in	1.500 in	1.000 in	1.000 in
163595	20,000 lb	6.000 in	2.500 in	1.505 in	3.500 in	2.443 in	7.405 in	1.750 in	1.250 in	1.500 in
163596	40,000 lb	7.500 in	3.150 in	2.005 in	5.000 in	2.580 in	8.905 in	2.000 in	1.375 in	2.000 in
163829	60,000 lb	8.000 in	3.190 in	2.505 in	5.250 in	2.695 in	9.405 in	2.188 in	1.500 in	2.500 in
163597	80,000 lb	8.500 in	3.650 in	3.505 in	5.750 in	2.680 in	9.905 in	2.313 in	1.500 in	3.500 in
163598	100,000 lb	9.125 in	3.873 in	4.005 in	7.000 in	2.382 in	10.530 in	2.668 in	1.875 in	4.000 in
159550	120,000 lb	9.125 in	3.873 in	4.005 in	7.000 in	2.382 in	10.530 in	2.813 in	2.000 in	4.000 in
163599	160,000 lb	16.000 in	7.030 in	6.005 in	14.500 in	2.955 in	17.405 in	4.625 in	2.500 in	6.000 in
163600	200,000 lb	16.000 in	7.030 in	6.005 in	14.500 in	2.955 in	17.405 in	5.125 in	3.000 in	6.000 in



OVERHEAD WEIGHING

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MSI Tension Link

Load Cell



Standard Features

- Integrates between a crane block and lifting equipment to provide force measurement for lifted items. This is an ideal solution for crane weighing and features a 7:1 safety factor for compliance with industrial and military safety requirements.

Options

(Contact MSI for application consultation)

- Top lifting eye or shackle with Crosby® (or equivalent) 360° thrust-bearing swivel hook

Specifications

Accuracy:
0.1% sensor accuracy

Rating/Material:
4340 steel

Full Scale Output:
0.8 mV/V

Output Resistance:
2,000 ohm

Input Resistance:
1,500 ohm

Connector Pin Out:
A: EX +
B: Sig +
C: Sig —
D: EX —

Part Number/Price

Part #	Description	Price
181907	2 K 7200 style load cell only	Consult
181908	5 K 7200 style load cell only	Consult
181909	10 K 7200 style load cell only	Consult
178093	25 K 7200 style load cell only	Consult
178094	50 K 7200 style load cell only	Consult
181910	100 K 7200 style load cell only	Consult

Contact factory for higher capacities

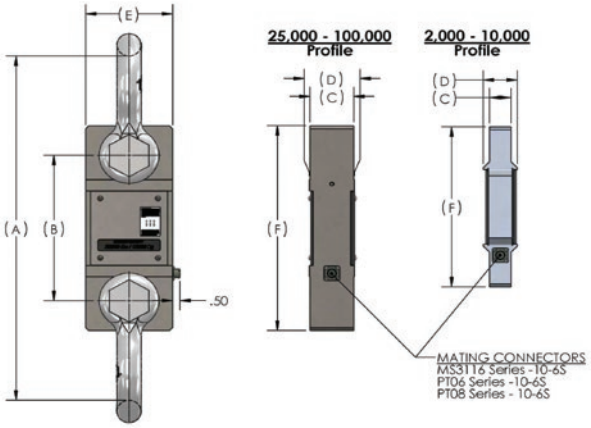
Options/Accessories

Part #	Description	Price
165978	Load cell to MSI-7001 interface cable, 6.5 ft	$345.00
165979	Load cell to MSI-7001 interface cable, 10 ft	$365.00
165990	Load cell to MSI-7001 interface cable, 25 ft	$460.00
134505	Load cell mating cable to bare wires, 10 ft	$210.00

Dimensions

Capacity (lbs)	P/N	Load Cell Material	(A) Headroom Loss	(B) C-C Length	(C) Lug Thk	(D) Body Thk	(E) Body Width	(F) Body Length	Lug Hole	Crosby Shackle	
2,000	**181907**	Aluminum	13.50 in	8.00 in	0.99 in	2.13 in	4.50 in	9.75 in	0.78 in	3-1/4 T	151357
5,000	**181908**	Aluminum	13.50 in	8.00 in	0.99 in	2.13 in	4.50 in	9.75 in	0.78 in	3-1/7 T	151357
10,000	**181909**	Aluminum	16.13 in	8.50 in	1.35 in	2.13 in	5.37 in	10.75 in	1.05 in	6-1/2 T	151355
25,000	**178093**	Steel	22.39 in	9.26 in	2.24 in	2.24 in	4.80 in	12.76 in	1.67 in	17 T	141992
50,000	**178094**	Steel	25.74 in	9.76 in	2.74 in	2.81 in	5.43 in	13.76 in	2.05 in	25 T	151356
100,000	**181910**	Steel	28.49 in	10.74 in	3.09 in	3.09 in	6.86 in	15.74 in	2.30 in	55 T	146336

**Please review the Overhead Weighing Safety Guide*

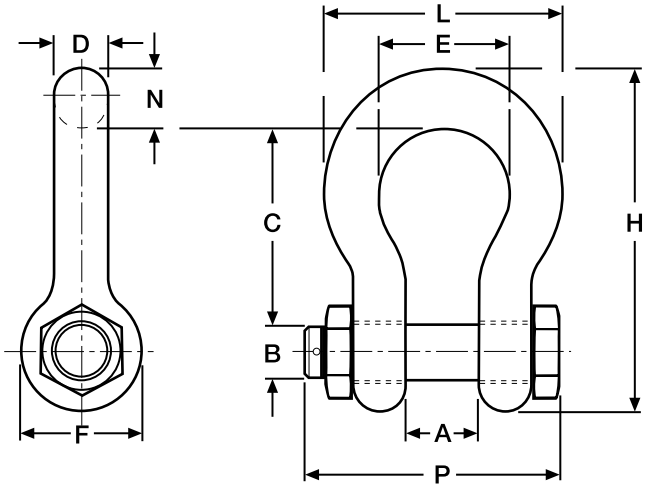


OVERHEAD WEIGHING

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Part Number/Price

Part #	W.l.l. Tons	Size	A	B	C	D	E	F	H	L	N	P	Weight	Price
151357	3 1/4	0.63 in	1.06 in	.75 in	2.38 in	0.63 in	1.69 in	1.56 in	4.22 in	2.94 in	0.69 in	N/A	1.58 lb	$70.00
151355	6 1/2	0.88 in	1.44 in	1.00 in	3.31 in	0.88 in	2.28 in	2.13 in	5.75 in	4.03 in	0.97 in	5.00 in	3.95 lb	$135.00
141992	17	1.50 in	2.38 in	1.63 in	5.75 in	1.50 in	3.88 in	3.63 in	9.88 in	6.88 in	1.62 in	8.25 in	19.50 lb	$505.00
151356	25	1.75 in	2.88 in	2.00 in	7.00 in	1.75 in	5.00 in	4.32 in	11.88 in	8.50 in	2.12 in	9.59 in	31.30 lb	$770.00
146334	30	1.50 in	2.38 in	1.63 in	5.75 in	1.50 in	3.88 in	3.63 in	9.88 in	6.88 in	1.62 in	8.25 in	20.80 lb	$750.00
146335	40	1.75 in	2.88 in	2.00 in	7.00 in	1.75 in	5.00 in	4.32 in	11.88 in	8.50 in	2.12 in	9.59 in	33.91 lb	$1,550.00
146336	55	2.00 in	3.25 in	2.25 in	7.75 in	2.00 in	5.75 in	5.00 in	13.38 in	9.75 in	2.00 in	11.00 in	51.75 lb	$2,000.00
151359	85	2.50 in	4.12 in	2.75 in	10.50 in	2.72 in	7.25 in	5.69 in	17.84 in	12.87 in	3.12 in	13.58 in	96.00 lb	$3,400.00
151360	120	3.00 in	5.00 in	3.25 in	13.00 in	3.00 in	7.88 in	6.50 in	21.50 in	14.50 in	3.63 in	16.50 in	178.00 lb	$4,700.00
151361	175	4.00 in	5.50 in	4.25 in	14.50 in	4.00 in	10.00 in	9.00 in	25.69 in	18.38 in	4.56 in	19.75 in	338.00 lb	$11,400.00
151358	250	4.00 in	8.50 in	5.00 in	20.00 in	4.50 in	13.00 in	12.00 in	35.00 in	24.50 in	6.50 in	22.68 in	600.00 lb	$17,900.00
Oversized Shackles														
148497	40	1.75 in	2.88 in	2.00 in	10.00 in	2.25 in	6.00 in	4.32 in	15.35 in	10.50 in	2.25 in	9.00 in	45.00 lb	$2,300.00
148393	40	2.25 in	2.88 in	2.00 in	12.50 in	2.25 in	8.00 in	4.32 in	17.85 in	12.50 in	2.25 in	10.00 in	90.00 lb	$2,200.00
148394	50	2.00 in	3.25 in	2.25 in	12.25 in	2.50 in	8.00 in	5.00 in	18.50 in	13.00 in	2.50 in	11.00 in	72.00 lb	$2,800.00
Shims														
146534	(For use with 50,000 to 70,000 ton systems)													$3.15



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MSI-8000

RF Remote Display



Part Number/Price

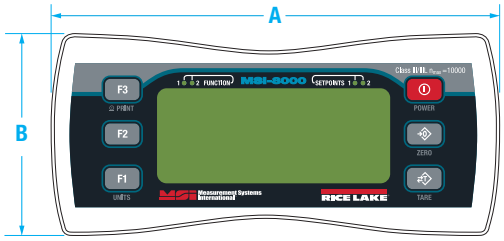
Part #	Description	Est. Weight	Price
139381	MSI-8000 RF remote display	5 lb	$1,530.00

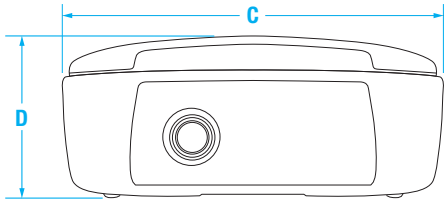
Options/Accessories

Part #	Description	Est. Weight	Price
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 RF remote display	3 lb	$180.00
149550	Universal 115/230 VAC 50/60 Hz (EC plug standard) battery charger for MSI 8000 RF remote display	1 lb	$180.00
150964	DB9 female serial interface cable for MSI-8000 RF remote display	1 lb	$220.00
151095	Audible alarm	—	$330.00

Dimensions

MSI-8000			
A	8.00 in (203 mm)	C	3.85 in (98 mm)
B	3.85 in (98 mm)	D	1.37 in (35 mm)





Standard Features

- LCD display
- Membrane keypad for remote control functionality
- User-definable function keys for added versatility
- Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)
- Compatible with all ScaleCore™ based products including: MSI-7300 Dyna-Link 2, MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001 TranSend™, MSI-9600HT and MSI-6360

(Contact MSI for application consultation)

Specifications

Power:
Integral lithium-ion battery
Universal 115/230 VAC, 50/60 Hz battery charger (NA plug included)

Operating Time:
Up to 24 hours of continuous use (15 minute auto-shutoff with non-use)

Annunciators:
COZ, stable, low battery, peak, net, kg, kN, lb, M, ton, setpoint, function LEDs

Weight:
0.98 lb (445 g)

Keys/Buttons:
On/Off, zero (100%), tare, print and two user-defined keys for the following functions: peak hold, high resolution, total, view total, net/gross, unit switching

Display:
Six-digit 1.0 in (26.4 mm) LCD screen

Temperature:
Operating:
-4 °F to 140 °F (-20 °C to 60 °C)

Rating/Material:
NEMA Type 4, IP65

RF Radio Link:
2.4 GHz 802.15.4
Communicates with RF 3460, 4260, 7300, 7000 & 7001

RF Effective Range:
Typically 100 to 300 ft, line of sight; for longer range consult factory

Connector:
Four-pin Turck connector for charging and RS-232 communication

Warranty:
One-year limited

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MSI-8000HD

Digital Weight Indicator/RF Remote Display



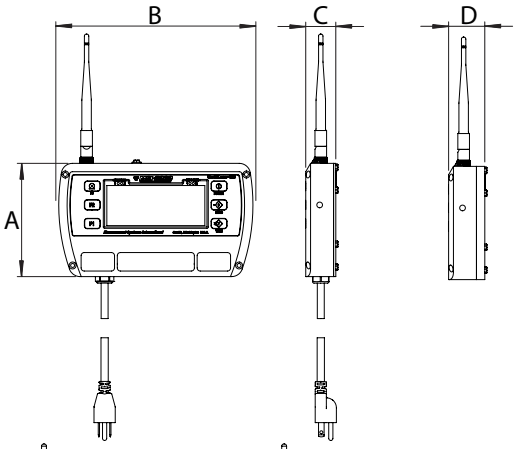
Approvals

Standard Features

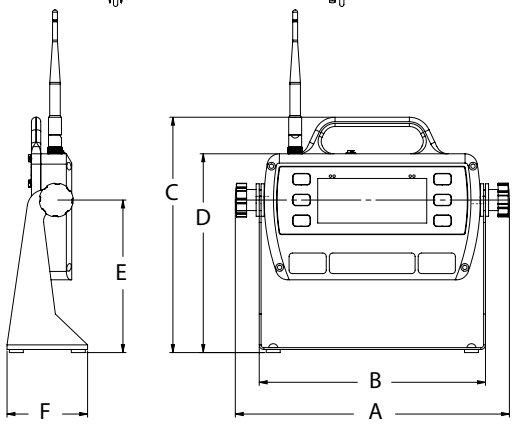
- Compatible with all ScaleCore™ based products
- LCD display
- Time and date
- Membrane keypad for remote-control functionality
- User-definable function keys for added versatility
- Swivel tilt stand

Dimensions

MSI-8000HD	
A	5.09 in (129 mm)
B	8.98 in (228 mm)
C	1.35 in (34 mm)
D	1.63 in (41 mm)



With Tilt Stand	
A	11.06 in (281 mm)
B	9.13 in (232 mm)
C	9.50 in (241 mm)
D	8.02 in (204 mm)
E	6.16 in (156 mm)
F	3.25 in (83 mm)



Options

(Contact MSI for application consultation)

- 18 to 72 VDC power
- Up to 8 configurable relay outputs
- Wi-Fi communications
- Wi-Fi indicators
- 802.15.4 Serial RF
- FHSS
- Wired Ethernet

Specifications

Power:
90 to 267 VAC, 9 to 36 VDC, 18 to 72 VDC, 120 to 300 VDC
Optional battery power module available

Excitation Voltage:
4.8 V current limited and over-voltage protected

RF Remote Channels:
Up to four remote sensors, monitored individually, in pairs or sum all (non-A/D version only)

Service Counters:
A/D version only

A/D Inputs:
Two independent or summing load cell inputs

Filtering:
Off, Low, Hi-1, Hi-2

RF Radio Link:
2.4 GHz 802.15.4
Compatible with all ScaleCore™ based products, including:
MSI-7300 Dyna-Link 2,
MSI-3460 Challenger 3,
MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001

RF Effective Range:
Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:
Dual RS-232 communication ports

Annunciators:
Stable, COZ, Peak, kg, kN, lb, M, Ton, Setpoint, Function LEDs
Channels: 1, 2, 3, 4, TTL

Display:
Six-digit 1.0 in (26.4 mm) LCD

Units Displayed:
Pounds, kilograms, tons, metric tons, kilonewtons

Keys/Buttons:
On/Off, zero (100%), tare, print, and two user-defined keys for the following functions: peak hold, high resolution, total, view total, net/gross, units switching

Rating/Material:
Enclosure: NEMA Type 4, IP66 milled anodized aluminum with O-ring gaskets

Temperature:
Certified: 14 °F to 104 °F (-10° °C to 40 °C)
Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Warranty:
One-year limited

Approvals:
NTEP 15-110

MSI-8000HD

Digital Weight Indicator/RF Remote Display

Part Number/Price

Part #	Description	Est. Weight	Price
Indicator			
158427	Indicator, dual channel, 85 to 265 VAC	5 lb	$2,025.00
158428	Indicator, dual channel, internal battery	5 lb	$2,150.00
160478	Indicator, dual channel, 7 to 36 VDC	5 lb	$1,825.00
159380	Indicator, dual channel, 9 to 36 VDC	5 lb	$1,850.00
158425	Indicator, RF, dual channel, 85 to 265 VAC	5 lb	$2,050.00
158426	Indicator, RF, dual channel, internal battery	5 lb	$2,175.00
160477	Indicator, RF, dual channel, 7 to 36 VDC	5 lb	$2,050.00
159378	Indicator, RF, dual channel, 9 to 36 VDC	5 lb	$2,075.00
Remote Display			
153591	Remote display, RF, 85 to 265 VAC	5 lb	$1,675.00
154853	Remote display, RF, internal battery	5 lb	$1,825.00
160476	Remote display, RF, 7 to 36 VDC	5 lb	$1,625.00
159376	Remote display, RF, 9 to 36 VDC	5 lb	$1,650.00

Options/Accessories

Part #	Description	Price
155173	MSI-8000HD spare tilt stand option kit	$94.00
155193	MSI-8000HD Ethernet TCP/IP option kit wired	$475.00
162178	Antenna extension kit, 6 ft	$535.00
148624	MSI-8000HD serial RS-232 cable	$150.00
158779	MSI-8000HD two each coil relay option kit, 250 VAC/30 VDC 5 A or 100 VDC 0.4 A	$410.00
158780	MSI-8000HD two each solid state relay option kit, 60 V pk 2.7 A	$410.00
158781	MSI-8000HD two each solid state relay option kit, 200 V pk 0.9 A	$420.00
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000HD battery powered device	$180.00
149550	Universal 115/230 VAC 50/60 Hz (international plugs) battery charger for MSI-8000HD battery powered device	$180.00
171203	Audible alarm kit	$390.00
176963	Serial print cable (for GoDex printer)	$175.00
Relays		
172490	Expanded relay kit, four-channel, 12 A 5 V, latching relays	Consult
172492	Expanded relay kit, four-channel, 12 A 5 V, momentary relays	Consult
Consult	Expanded relay kit, four-channel, 0.9 A 200 V pk, AC/DC solid state relays	Consult
172495	Expanded relay kit, eight-channel, 12 A 5 V, momentary relays	Consult
172500	Expanded relays option kit, four-channel, 3 A, 60 V pk solid state Form C relays	Consult
172501	Expanded relays option kit, eight-channel, 3 A 60 V pk, solid state Form C relays	Consult
172502	Expanded relays option kit, eight-channel, 0.9 A 200 V pk, solid state Form C relays	Consult
171676	Expanded relays option kit, eight-channel, 12 A 5 V, latching relays	Consult

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MSI-8004HD

Digital Weight Indicator/RF Remote Display



Approvals

Measurement Canada Approved

Standard Features

- Multicolor LED display
- Backlit membrane keypad for user functioning and controls
- Tilt bracket included
- Color changing display (via setpoints)

Options

(Contact MSI for application consultation)

- Expanded relay outputs
- Battery pack for mobile operation
- Second radio module for additional network connectivity
- Remote display 8 to 32 VDC
- Remote display 5 VDC
- Remote display 9 to 36 VDC
- Indicator 8 to 32 VDC
- Wired Ethernet
- Single and dual channel analog output
- Additional antenna kits
- Extended relay option kits

Part Number/Price

Part #	Description	Price
Indicator		
221177	AC Power (85 to 264 VAC), multi-color display, RF	$2,075.00
221183	AC Power (85 to 264 VAC), multi-color display, RF, Instant power-on	$2,050.00
221179	DC Power (9 to 36 VDC), multi-color display, RF	$2,075.00
221181	DC Power (5 VDC), multi-color display, RF	$2,225.00
Remote Display		
221176	AC Power (85 to 264 VAC), multi-color display, RF	$2,075.00
221180	External battery (Li-ion 5V/3A), multi-color display, RF	$2,025.00

Specifications

Power:
90 to 267 VAC, 9 to 36 VDC, 18 to 72 VDC, 120 to 300 VDC

Excitation Voltage:
4.8 V current limited and over-voltage protected

Functions:
Peak hold, high resolution, total, view total net/gross, units switching

Units:
Pounds and kilograms

Channels:
1, 2, 3, 4, TTL

RF Remote Channels:
Up to 4 remote sensors, monitored individually, in pairs or sum all (non-A/D version only) (when used with TranSend™)

Service Counters:
A/D version only

A/D Inputs:
Two independent or summing load cell inputs

Relays:
Two 5 V coil, 250 VAC, 5 A relays

Filtering:
Off, Low, Hi-1, Hi-2

RF Radio Link:
2.4 GHz 802.15.4, optional second channel for Serial RF, 802.11 Wi-Fi

RF Effective Range:
Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports
Two RS-232 hard wired communication ports

Annunciators:
Stable, COZ, BT, RF, TTL, NET, kg, lb

Display:
Six-digit, 1.5 in (38 mm) LED display with red/green/orange coloring

Keys/Buttons:
On/Off, Zero, Tare, Print and two user-defined keys

Temperature:
Certified: 23 °F to 104 °F (-5 °C to 40 °C)
Operating: -40 °F to 140 °F (-40 °C to 60 °C)

Rating/Material:
NEMA Type 4, IP66 milled anodized aluminum

Warranty:
One-year limited

Approvals:
NTEP 17-036
Measurement Canada AM-6068

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MSI-8004HD

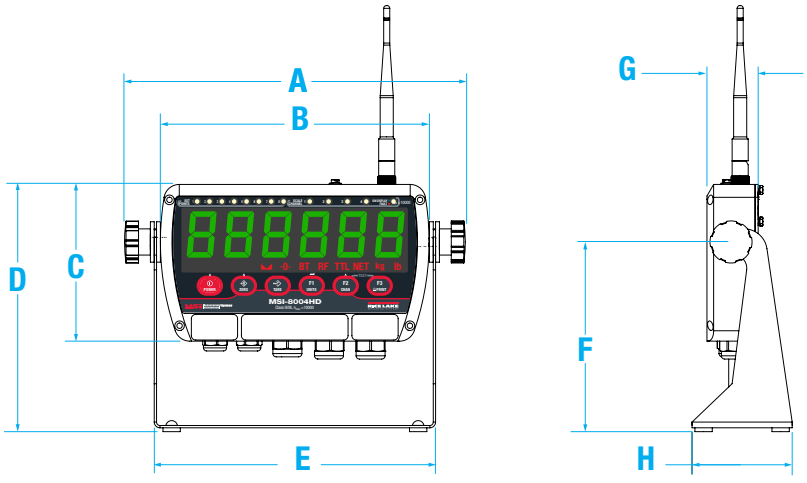
Digital Weight Indicator/RF Remote Display

Options/Accessories

Part #	Description	Price
162178	Antenna extension kit, 6 ft	$535.00
197013	Antenna extension kit, 20 ft	$575.00
199105	Audible alarm not compatible with battery versions	Consult
22436	Cable assembly, DB9F to bare wires, 6 in, Gen 1	$70.00
148624	Cable assembly, RS232 DB9, Gen 2	$150.00
183437	Battery, 5V Li-ion battery with USB power ports. Output 5 V/3.0 A per port (6.0 A max) rate, 2 A per port (4 A if both ports are used).	$245.00
187425	8004 option kit, Wi-Fi with TNC connector	$210.00
187424	8004 option kit, 2nd Xbee® with TNC connector	$220.00
223594	Option kit, Dual Analog output: 4/20mA, 0-5 VDC, 0-10VDC. +/- 5VDC, +/-10VDC	$625.00
224817	Ethernet (forward module only)	$250.00

Dimensions

MSI-8004HD			
With Tilt Stand			
A	11.10 in (282 mm)	E	9.13 in (232 mm)
B	8.76 in (223 mm)	F	6.16 in (156 mm)
C	8.02 in (204 mm)	G	3.25 in (83 mm)
D	5.09 in (129 mm)	H	1.66 in (42 mm)



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MSI Scoreboards Wireless RF

Featuring LaserLight2™ Remote Displays



Standard Features

- Tilt mounting bracket
- Integrated data repeater
- Six high-intensity red digits (double-row discrete LED)
- Auto Learn mode of communication protocols
- Hold displayed weight (demand input)
- Software selectable standstill mode for no updates while in motion
- Durable weather-tight IP66 enclosure
- Adjustable day/night intensity
- Non-glare contrast filtered lens
- Mirror (reverse image) feature
- RS-232, 20 mA and RS-485 communications
- Auto sensing 115/230 VAC power supply
- PEMs for VESA flat-wall mount or side-mounting flange available
- Polyethylene breather vent inhibits internal moisture buildup
- Compatible with: MSI-7300 Dyna-Link 2, MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001 TranSend™, MSI-9600HT, MSI-6360, MSI-8000HD and MSI-8004HD

(Contact MSI for application consultation)

Specifications

Display:
Six-digit long-life LED, 4 in or 6 in

Power:
AC/DC power supply 85 to 265 VAC, 47 to 440 Hz/130 to 300 VDC

Rating/Material:
NEMA Type 4, IP66

Radio Link:
Direct sequence spread spectrum at 2.4 GHz

Radio Link Effective Range:
Typically, 100 to 300 ft, line of sight; for longer range consult factory

Temperature:
Operating:
-40 °F to 120 °F (-40 °C to 49 °C)

Standard Antenna:
1/2 wave 2 dBi, articulated

Warranty:
One-year limited

Echo Data Output:
RS-232

Part Number/Price

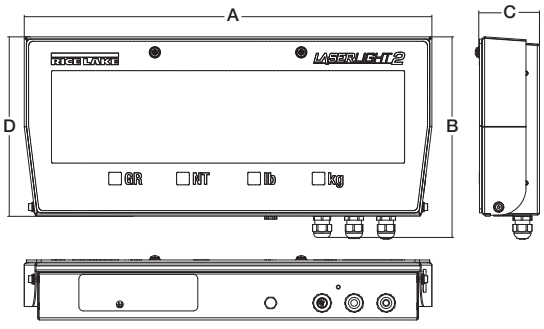
Part #	Description	Est. Weight	Price
178004	LaserLight2, 4 in with ScaleCore RF and tilt bracket	20 lb	$3,350.00
178006	LaserLight2, 6 in with ScaleCore RF and tilt bracket	25 lb	$3,850.00
178341	Laserlight2, 4 in with tilt bracket	20 lb	$2,650.00
178342	Laserlight2, 6 in with tilt bracket	20 lb	$3,025.00

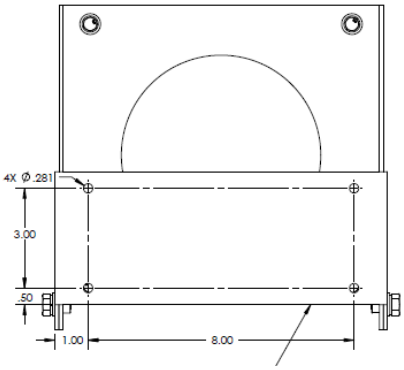
Options/Accessories

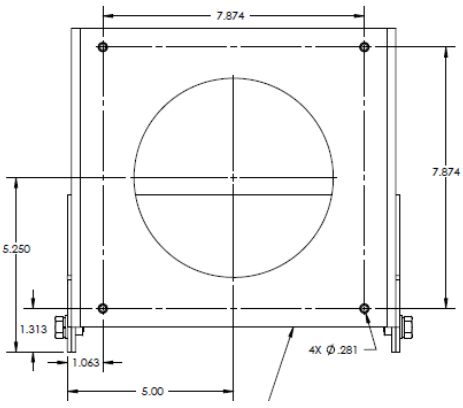
Part #	Description	Price
162178	Antenna extension kit, 6 ft	$535.00
197013	Antenna extension kit, 20 ft	$575.00
178318	Replacement tilt bracket, LaserLight2	$275.00

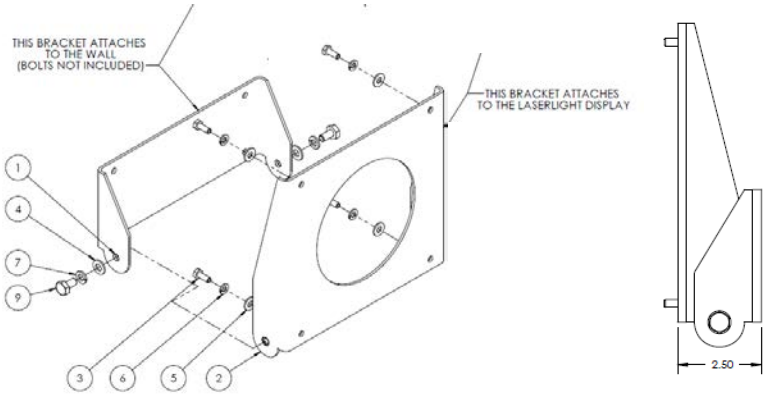
Dimensions

MSI Scoreboards Wireless RF							
22 in enclosure (4 in model)				**31 in enclosure (6 in model)**			
A	22.28 in (565 mm)	C	3.28 in (85 mm)	A	30.63 in (780 mm)	C	3.73 in (95 mm)
B	10.96 in (280 mm)	D	9.80 in (250 mm)	B	13.94 in (355 mm)	D	12.77 in (325 mm)









OVERHEAD WEIGHING

TranSend™

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
MSI-7000			
227549	Four-channel, transmitter, 85-265 VAC, load cell, w/3 relays	2 lb	$1,525.00
227550	Four-channel, receiver, 85-265 VAC, digital, w/3 relays	2 lb	$1,350.00
MSI-7001			
230905	Single-channel, transmitter, 85-265 VAC, load cell input	2 lb	$1,375.00
230951	Single-channel, receiver, 85-265 VAC, mV output	2 lb	$1,525.00
230952	Single-channel, receiver, 85-265 VAC, RS232 output	2 lb	$1,150.00

Options/Accessories

Part #	Description	Price
143531	Power cord, 6 V SLA battery charger EU	$33.00
143533	Power cord, 6 V SLA battery charger, Australia	$54.00
143534	Power cord, 6 V SLA battery charger, UK	$49.00
162178	Antenna extension kit, 6 ft coax cable	$535.00
150964	RS-232 13 ft (4 m) serial cable with nine-pin (female) connector, MSI-7001	$220.00
150965	RS-232 13 ft (4 m) serial cable with nine-pin (male) connector, MSI-7001	$180.00
145085	RS-232 serial cable, unterminated, MSI-7000	$145.00
148624	Cable assembly, RS232/485 to DB9, used for setup and calibration	$150.00
144400	Cable assembly, 4 pin, female, 4 meter, mV	$110.00
145084	Cable assembly, 4 pin, female, 2 meter, mV	$64.00
162177	Cable assembly, 4 pin, male, 2 meter, A2D cable, MSI-7001	$145.00
162184	Connector, M12, 4 pin, straight, mV, MSI-7001	$65.00
162185	Connector, M12, 4 pin, right-angle, mV, MSI-7001	$65.00
187424	Modem, dual option XBEE	$220.00
223594	Option kit, Dual Analog output: 4/20mA, 0-5 VDC, 0-10VDC. +/- 5VDC, +/-10VDC	$625.00

Standard Features

- Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired
- Serial communication cable included

Options

(Contact MSI for application consultation)

- Multiple antenna selections
- Analog output
- Additional VDC input power

Specifications

Power:
85 to 265 VAC

Excitation Voltage:
Transmitter: +4.8 VDC, 16 × 350 ohm or 32 × 700 ohm load cells

Standard Antenna:
1/2 wave 2dBi, articulated

Frequency:
Spread spectrum at 2.4 GHz, 802.15.4

Effective Range:
Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:
Full duplex RS-232

Circuit Protection:
RFI, EMI, ESD protection

Temperature:
Operating:
-40 °F to 185 °F (-40 °C to 85 °C)

Rating/Material:
IP68, die-cast aluminum enclosure

Additional RF Options:
Wi-Fi
802.15.4
FHSS

Warranty:
One-year limited

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MSI ScaleCore Webserver

Wireless Network Router



Approvals

Part Number/Price

Part #	Description	Price
207943	ScaleCore Webserver, 5 VDC and PoE	$4,025.00
209704	ScaleCore Webserver, 7 to 14 VDC and PoE	$4,025.00
210817	ScaleCore Webserver, 85 to 265 VAC and PoE wall cube	$4,025.00

Options/Accessories

Part #	Description	Price
Consult	Extended-range antennas	Consult
213559	MSI-8000 handheld remote display with Wi-Fi, (only to be used with MSI ScaleCore Webserver systems and applications)	$1,650.00
224240	Webserver Access Point, more than 8 devices	$1,400.00

** Other MSI Wi-Fi products available based on application requirements.*

Standard Features

- Display and control multiple ScaleCore based scales, indicators, remote displays and receivers through network connected devices using a web browser, including cell phones, tablets and PCs
- Capable of functioning either with an existing Wi-Fi network or as its own Wi-Fi router
- Can be powered by a dedicated power input or directly through the Ethernet cable where PoE (Power over Ethernet) is supported
- RS-232 communications at up to 460 Kbps
- Scale/load cell summing
- Tiered login to limit scale functionality for different levels of users

(Contact MSI for application consultation)

Specifications

Power:
5 to 6 VDC, 7 to 14 VDC, 85 to 265 VAC, PoE

Effective Range:
Typically 100 to 300 ft, line of sight; for longer range consult factory

Minimum System Requirements:
Will display on any device with a web browser supporting HTML 5
Connected ScaleCore based MSI scales and indicators are required to have the optional Wi-Fi radio modul

Connectivity:
Wi-Fi 2.4 GHz IEEE 802.11g
Gigabit Ethernet
2 × USB 2.0 Interface
RS-232 Serial

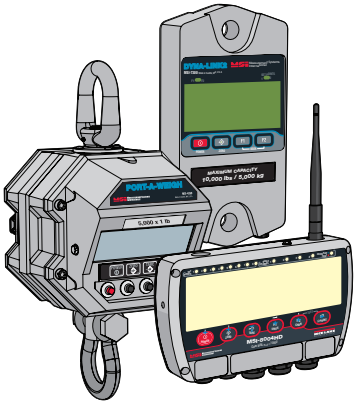
Status Annunciators:
Units (lb, kg, short tons (tn), metric tons (t), (NONE) gross/net, motion, center of zero

Enclosure:
IP65, aluminum black powder coated (excludes 85 to 265 VAC model)

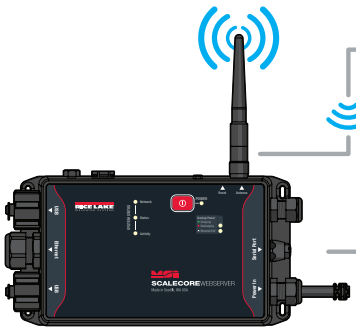
Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
One year limited

Approvals:
NTEP 21-098 Classes III and IIIL at 10,000d



MSI ScaleCore and Wi-Fi enabled device



MSI ScaleCore Webserver

Optional Wi-Fi router or access point



Display multiple ScaleCore devices using a web browser

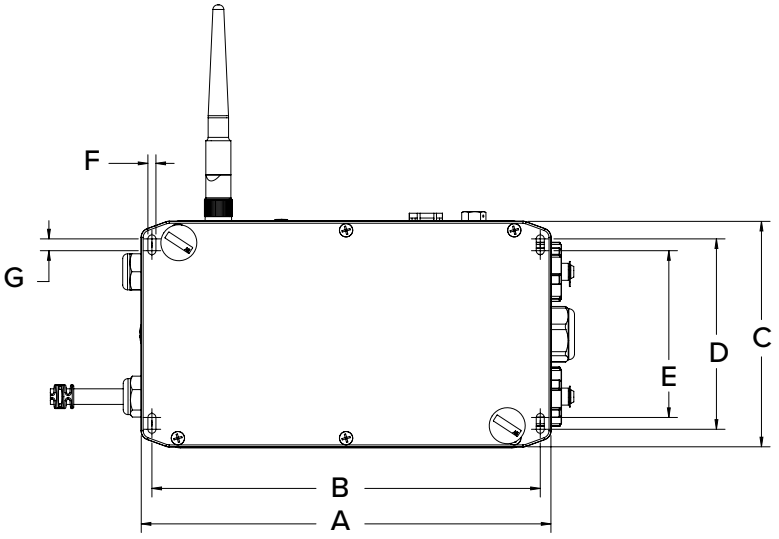
OVERHEAD WEIGHING

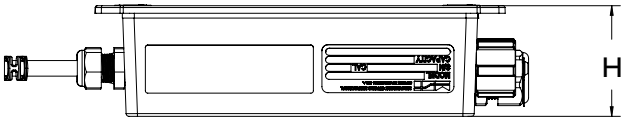
ScaleCore Webserver

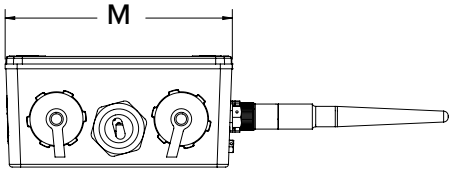
Wireless Network Router

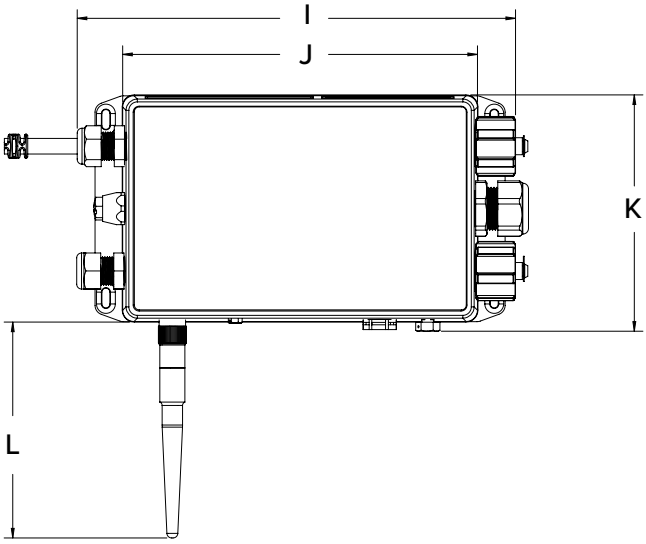
Dimensions

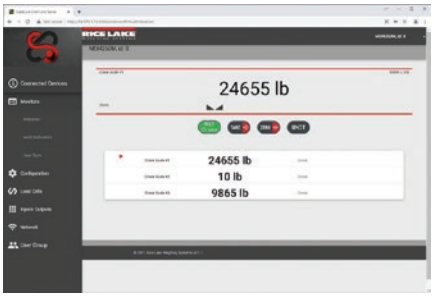
ScaleCore Webserver			
A	8.54 in (217 mm)	H	2.23 in (57 mm)
B	8.09 in (205 mm)	I	9.13 in (232 mm)
C	4.70 in (119 mm)	J	7.40 in (188 mm)
D	3.97 in (101 mm)	K	4.90 in (124 mm)
E	3.47 in (88 mm)	L	4.50 in (114 mm)
F	0.17 in (4 mm)	M	4.70 in (119 mm)
G	0.25 in (6 mm)		



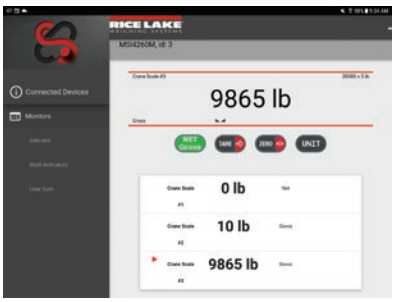








Computer Screenshot



Tablet Screenshot



Phone Screenshot

OVERHEAD WEIGHING

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Rugged Remote

Remote Control



Approvals

CE

Standard Features

- Handheld
- Compatible with: MSI-7300, Dyna-Link 2, MSI-7000 Series and all MSI Crane Scales
- Four button interface: Power, zero, tare, function

Specifications

Power:
Battery operated, three (3) AAA alkaline batteries

Function:
Power: turns unit on/off
Zero: zeros applied load up to 100% of capacity (limited range in NTEP/OIML configurations)
Tare: tares applied load and displays weight in net mode
User: programmable as test, units, net/gross, total, peak hold and setpoints

Radio Effective Range:
Typically 100 to 300 ft line of sight

Warranty:
One-year limited

Approval:
CE Listed

Part Number/Price

Part #	Description	Est. Weight	Price
173014	MSI Rugged Remote control, non-CE approved	3 lb	$375.00
211841	MSI Rugged Remote control, CE approved	3 lb	$375.00

OVERHEAD WEIGHING

Wi-Fi Information Request

RICE LAKE WEIGHING SYSTEMS

Customer Number:

Company: Name:

Date: Phone: Email:

Network Topology

In order to customize a Wi-Fi module, the following information is required.

Product: Electronics Serial Number:

☐ **Server (Soft AP):**

User's laptop or tablet is connecting directly to the scale. Only one module may be connected at a time in this mode.

☐ **Client:**

The scale connects to an existing router. This allows a laptop or tablet to connect to multiple scales at once.

Server Mode

SSID:

The name for the network that the laptop/tablet is connecting to.

Security Mode:

☐ **Open:** *Allow anyone to connect to the scale*

☐ **WPA2:** *Require a password to connect to the scale*

Password:

Only necessary if security mode is set to WPA2

DHCP:

☐ **On:** *Assign a dynamic IP to the scale. The laptop/tablet connecting to the scale may have a dynamic IP (RECOMMENDED)*

☐ **Off:** *Assign a static IP to the scale. The laptop/tablet connecting to the scale must also have a static IP*

IP Address-Static IP of the scale:

Net Mask/Gateway to assign to the scale:

Port used to connect to the scale (default 2000):

Client Mode

SSID:

The SSID of the router the scale will connect to.

Security mode of the router:

☐ **Open:**

☐ **WPA2:**

Password:

This is the password used to connect to the router.

DHCP:

☐ **On:** *Allow the router to assign a dynamic IP to the scale (RECOMMENDED)*

☐ **Off:** *Assign a static IP to the scale. This IP must be added to the static IP list in the router*

IP Address-Static IP of the scale:

Net Mask/Gateway to assign to the scale:

Port used to connect to the scale (default 2000):

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Pipe Lever Scales

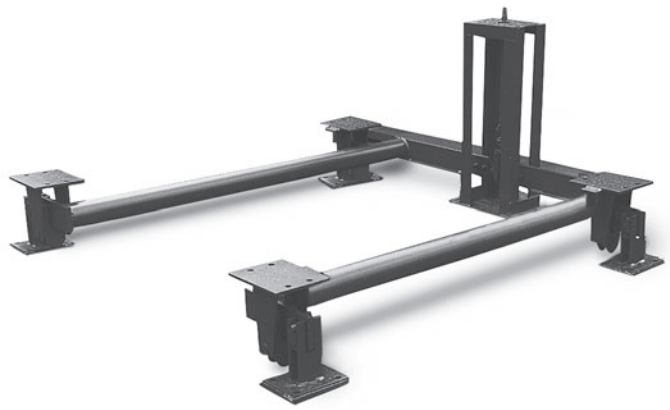
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PIPE LEVER SCALES

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Pipe Lever Scale



Standard Features

- NTEP Certified and Measurement Canada Approved models available
- RL20000 alloy steel load cell standard (prices include load cell and ITCM load cell assembly)
- Mild steel construction, black paint finish
- Stainless steel, hermetically sealed load cells available
- Custom sizes and capacities available from 5,000 to 60,000 lb

Specifications

End Load Capacity:
100% full scale

mV/V Output:
1.50 to 1.87 mV/V nominal

Cable Length:
20 ft (6.1 m)

Warranty:
One-year limited

Approvals:
NTEP 94-126
Class III/IIIL
Measurement Canada Approved, AM-5114,
Legal For Trade on sizes greater than 1.6 m,
or a capacity greater than 10,000 kg

Approvals

Measurement Canada Approved

Part Number/Price

Part #	Dimensions	Est. Weight	Price
25,000 lb			
29587	62 5/8 × 62 5/8 in	532 lb	$4,700.00
29586	60 1/2 × 66 in	528 lb	$4,700.00
29588	66 1/2 × 91 in	640 lb	$4,700.00
29589	64 × 64 in	538 lb	$4,700.00
35008	62 × 92 in	561 lb	$4,700.00
35009	62 × 105 in	720 lb	$4,700.00
40409	72 × 72 in	618 lb	$4,700.00
83433	64 3/4 × 64 3/4 in	567 lb	$4,700.00
25,000 lb Stainless Steel			
46264	62 5/8 × 62 5/8 in	405 lb	$10,400.00
46265	60 1/2 × 66 in	550 lb	$10,400.00
46266	66 1/2 × 91 in	610 lb	$10,400.00
50172	64 × 64 in	550 lb	$10,400.00
50173	62 × 92 in	680 lb	$10,400.00
50174	62 × 105 in	720 lb	$10,400.00
40,000 lb			
39152	5 × 5 ft	1,885 lb	$11,800.00
39153	6 × 6 ft	1,975 lb	$11,800.00
39154	7 × 7 ft	2,220 lb	$11,800.00
39155	8 × 8 ft	2,310 lb	$11,800.00
39156	9 × 9 ft	2,545 lb	$11,800.00
39157	10 × 10 ft	2,635 lb	$11,800.00
50,000 lb			
39158	5 × 5 ft	2,010 lb	$12,100.00
39159	6 × 6 ft	2,120 lb	$12,100.00
39160	7 × 7 ft	2,385 lb	$12,100.00
39161	8 × 8 ft	2,495 lb	$12,100.00
39162	9 × 9 ft	2,750 lb	$12,100.00
39163	10 × 10 ft	2,860 lb	$12,100.00



Custom sizes fit your tank/hopper system for fewer modifications and less installation time.

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Pipe Lever Scale Questionnaire

RICE LAKE WEIGHING SYSTEMS

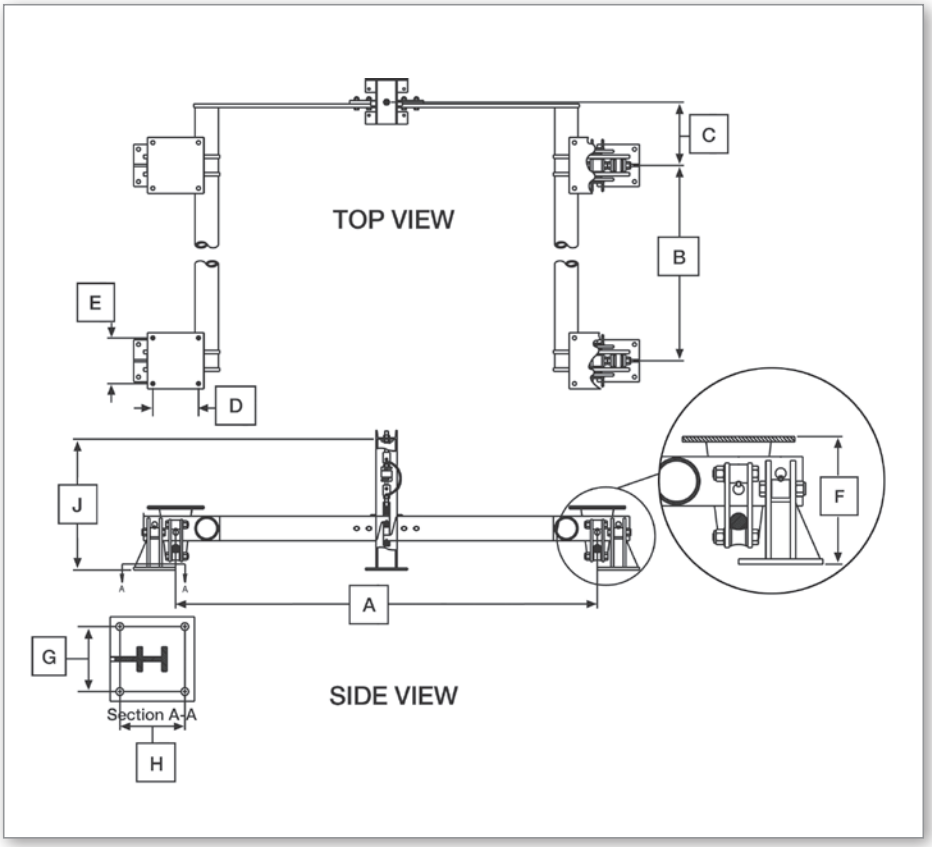
Customer Number:

Company:

Name: Date:

Phone: Fax: Email:

Instructions or subhead of outcome or expectations



These drawings are not to be used as installation guidelines

	5K/10K Total Load*		25K Total Load*		30K Total Load*		40K/60K Total Load*	
	Standard	Minimum	Standard	Minimum	Standard	Minimum	Standard	Minimum
A	–	48.00 in	–	48.00 in	–	60.00 in	–	60.00 in
B	–	48.00 in	–	48.00 in	–	60.00 in	–	60.00 in
C	12.25 in	4.50 in	15.50 in	7.00 in	15.62 in	7.00 in	18.00 in	7.00 in
D	6.00 in	6.00 in	9.50 in	8.75 in	9.50 in	8.75 in	13.00 in	12.00 in
E	6.00 in	6.00 in	9.50 in	8.75 in	9.50 in	8.75 in	13.00 in	12.00 in
F	8.62 in	8.62 in	13.56 in	13.56 in	13.81 in	13.81 in	18.18 in	18.18 in
G	4.50 in	3.50 in	6.50 in	4.75 in	6.50 in	4.75 in	9.25 in	6.50 in
H	4.50 in	3.50 in	6.50 in	4.75 in	6.50 in	4.75 in	9.25 in	6.50 in
J	24.00 in	24.00 in	32.25 in	32.25 in	32.25 in	32.25 in	37.25 in	37.25 in
	A × B must be equal to or less than 64 square feet. If over, consult factory.		*A × B must be equal to or less than 100 square feet. If over, consult factory.*		*A × B must be equal to or less than 100 square feet. If over, consult factory.*		*A × B must be equal to or less than 100 square feet. If over, consult factory.*	

** Live and dead load*

A

B

C

D *

E *

F

G **

H **

J

**Chair hole dimensions. ** Stand hole dimensions*

Capacity:

☐ 5K ☐ 10K ☐ 25K ☐ 30K

☐ 40K ☐ 50K ☐ 60K

Material:

☐ Stainless Steel ☐ Mild Steel

NTEP Required:

☐ Yes ☐ No

Finish:

Load Cell:

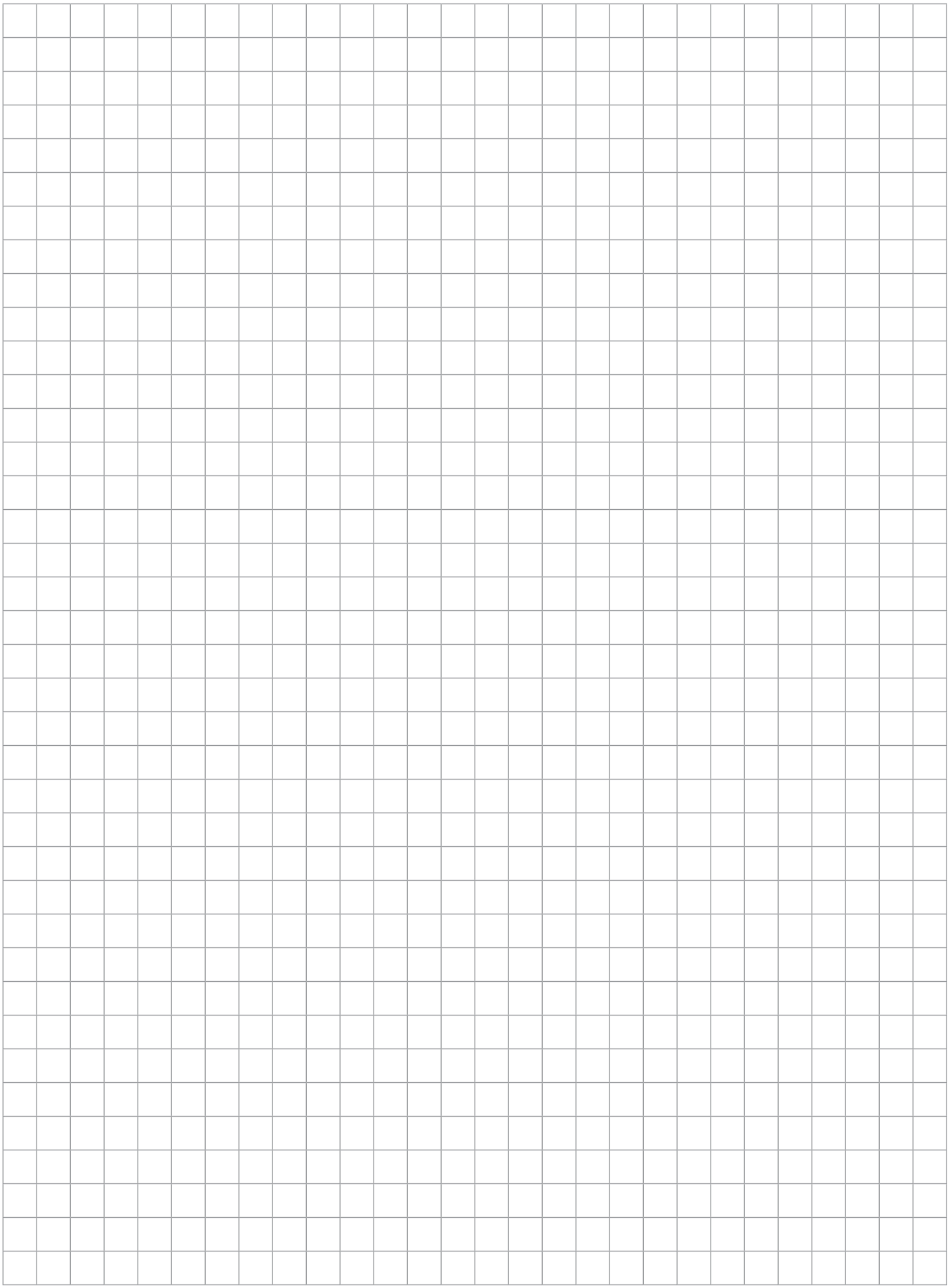
☐ Mild Steel ☐ Stainless Steel Hermetically Sealed

Load Cell Model:

www.ricelake.com | Phone: 800-472-6703

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RICE LAKE | 807



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Power Conditioning

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Transient Protector

ISOBLOK® 817
AC Transient Protector

ISOBAR® 818
AC Transient Protector

EL226 819
AC Transient Protector

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AC Transient Protector

Sola MCR Series 820
AC Power Regulators

Tripp-Lite PV Series 821
Power Convertor

Tripp-Lite LC1200 821
Power Regulator

Sola S1K/S3K 822
Uninterruptible Power Supply (UPS)

Eaton 3S/5S 822
Uninterruptible Power Supply (UPS)

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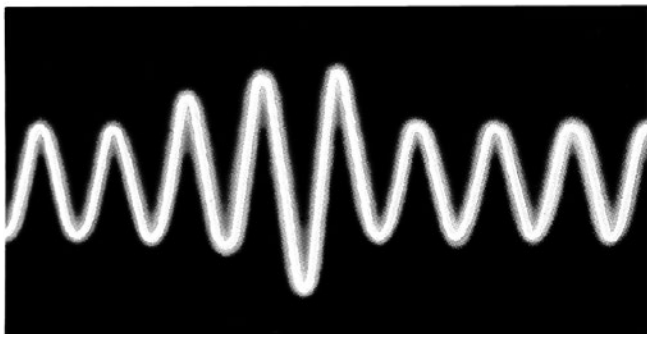
Selecting the Best Power Conditioning Devices/ Equipment for Your Application

Digital weighing indicators utilize an incredibly small signal in their operation. These signals are easily disturbed by any number of voltage distortions. Additionally, many weighing systems are now designed with a complex array of peripheral equipment, including printers and computers. To maintain proper operation and provide maximum protection, Rice Lake Weighing Systems offers a wide variety of power conditioning products as your first line of defense in the battle to improve power problems.

The following is a list of power problems you are likely to experience, with a reference to the equipment we recommend to solve each problem. A quick reference power conditioning equipment chart is also included for your convenience.

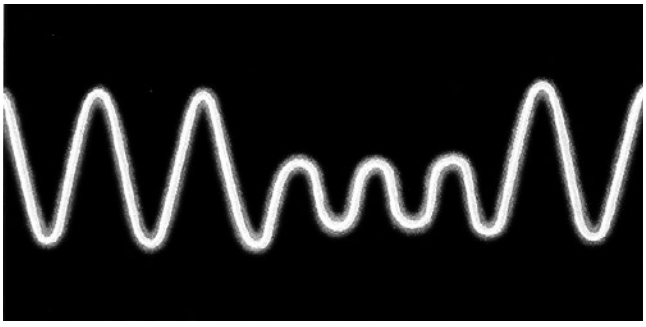
Voltage Surge

A voltage surge is a temporary rise in voltage level lasting at least one AC cycle (1/60 second). They are typically caused by switching off high-power electric motors (electric welders, compressors, machine tools, conveyors, material handling equipment and power tools), momentarily boosting the line voltage. Regulation of the line to an acceptable voltage level is required to prevent the damage caused by voltage surges. The SOLA MCR series of voltage regulators (MCR070, MCR150 and MCR250) are designed to keep the voltage level within acceptable and harmless limits.



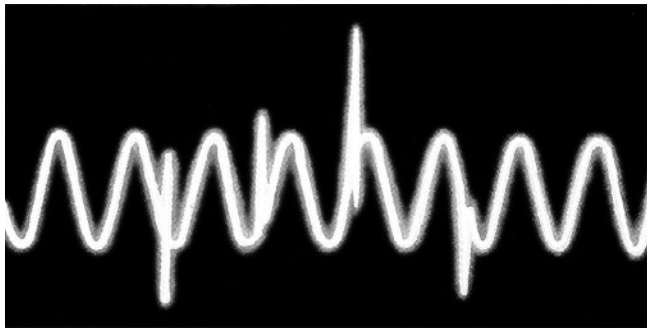
Voltage Dip

A voltage dip is the opposite of a voltage surge, lasting at least one AC cycle (1/60 second). They are typically caused by a sudden nearby increase in an electrical load, such as turning on high-power electrical motors (electric welders, compressors, machine tools, conveyors, material handling equipment and power tools). During this time, every other piece of operating equipment is forced to operate with the reduced available voltage. Regulation of the line voltage is required to remedy this situation. The SOLA MCR series of voltage regulators (MCR070, MCR150 and MCR250) solve your problem by temporarily boosting the line voltage to within acceptable limits until the voltage dip condition has corrected itself.



Voltage Spikes

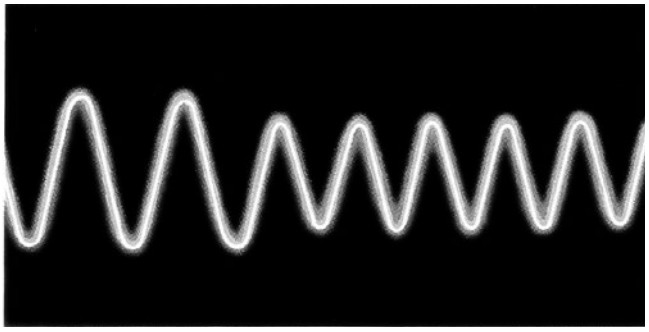
A voltage spike is a large, damaging voltage pulse caused when lightning strikes a powerline, communications line, signal or sensing line, or even the nearby ground. Voltage spikes last only a few milliseconds, but can reach a potential of 1,000 volts. High-quality protection is the only practical answer. For RS-232, RS-485, RS-422 and 20mA communication lines, use the TP232. The UJB3T6, LCP-1 and TP-75 are practical solutions for load cell protection. For line-powered equipment, the Tripp-Lite ISOBLOK® and ISOBAR® or Rice Lake's EL225 or EL226 are the most effective protection against voltage spikes.



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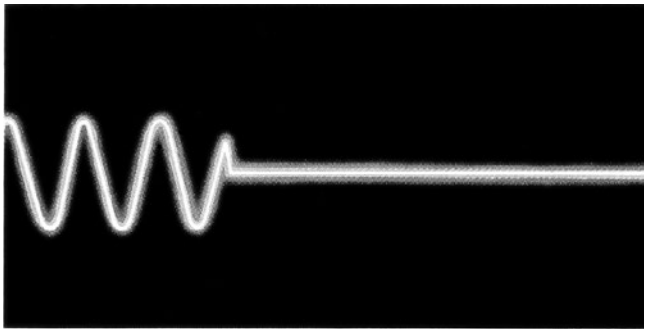
Brownouts

Brownouts are prolonged voltage dips of as much as 15 percent, lasting from several hours to several days. This condition is initiated by local power companies during hours of unusually high demands. Brownouts create many forms of abnormal behavior. The only way to safeguard the operation of critical equipment is to bring the powerline voltage back up to normal specifications. The SOLA MCR series of line voltage regulators (MCR070, MCR150 and MCR250), the Sola SK Series or Eaton uninterruptible power systems can eliminate the problems associated with brownout conditions.



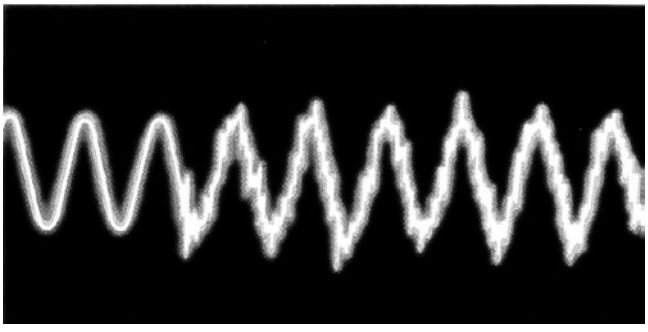
Blackouts

The ultimate power problem! The only way to keep critical electrical equipment running during a blackout is to provide a new supply of power either from batteries or generators. The Sola SK Series or Eaton uninterruptible power system are our answer for battery-supplied electrical power.



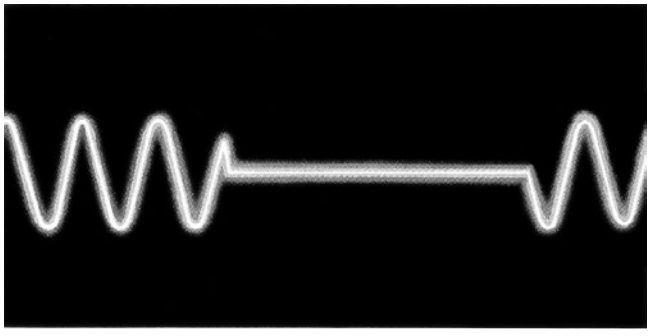
Electrical Noise

Noise is a disturbance of electrical power caused by distant lightning, radio transmitters, welding equipment, electrical switching equipment and poor brush contact on motors and other electronic devices utilizing switching power supplies. One solution is to prevent noise from entering equipment by filtering the powerline input. The Tripp-Lite ISOBLOK and ISOBAR, or Rice Lake's EL225 or EL226 will effectively filter most electrical noise problems. In severe cases, the use of uninterruptible power systems such as Eaton and Sola S1K Series are recommended.



Dropouts

A dropout is a temporary loss of electrical power normally caused by utility and maintenance switching functions where break-before-make switching strategies are used. This simply means the old source of power is disconnected momentarily prior to the connection of the new power source. Your local utility company may be the most common source of this type of disturbance, causing many problems—notably computer lockups, software errors, equipment resets and diagnostic self-tests. The SOLA MCR series of regulators (MCR070, MCR150 and MCR250) are available to deal with short-term dropouts (less than three milliseconds). For longer-lasting protection, Eaton and Sola SK Series uninterruptible power systems are recommended.



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Transient Protection AC, DC, Series and Parallel

AC Protection

AC protection is designed to filter voltage spikes and electrical noise from AC wall receptacles providing power to sensitive microprocessor-based equipment such as computers, printers and indicators. Clamping voltages typically are set to 140 volts AC rms and peak current handling capacities are near 6,000 amps.

DC Protection

DC protection is designed to filter voltage spikes and electrical noise from load cell cables, and both RS-232 and 20 milliamp serial communication lines protecting indicators, communications interfaces and computers.

Parallel Protection

Parallel protection is provided by “diverting” or “bypassing” elements that attempt to quickly change the direction of the voltage spike, typically toward earth ground. Examples of “diverting” type elements are gas tubes, MOVs and Transzorbs™. In a parallel-type transient protector, the equipment to be protected is not removed from the line in the event of a protector damaging voltage spike, leaving the possibility of a second catastrophic voltage spike to enter the unprotected equipment.

Series Protection

Series protection is provided by “blocking” type elements that buffer the equipment to be protected from the line voltage available at the wall receptacle. Examples of “blocking” type protective elements that are used in series-type transient protectors are fuses, circuit breakers, common mode coils and inductors. In addition, series-type protectors will utilize “diverting” elements used in parallel protectors. In the series type of transient protector, the equipment to be protected is generally removed from the line source in the event of a damaging transient or surge.

Rice Lake Weighing Systems endorses only series type AC and DC transient protectors. The additional performance and protection they provide are substantial compared to parallel type counterparts.

A Message About Grounds...

A good ground is essential for any successful transient protection scheme. However, simply driving a copper ground rod is not enough. The conductivity of the soil can vary seasonally, particularly if the local water table rises and falls with the season. An adequate ground in spring, when the water table is high, may not be adequate in late summer when the water table is low (and thunderstorms are common). Check the resistivity of your ground regularly throughout the year. If problems appear, check with your local utility about alternate grounding techniques.

Type of Disturbance	AC Line Disturbance Solutions			
	TRANSIENT PROTECTORS	VOLTAGE REGULATORS	UNINTERRUPTIBLE POWER SYSTEMS	
	ISOBLOK/ISOBAR Our Best - EL225, EL226	MCR Series	Sola Series	Eaton
SURGE	*	✓	✓	✓
DIP		✓	✓	✓
BROWNOUT		✓	✓	✓
DROPOUT		✓	✓	✓
BLACKOUT			✓	✓
SPIKES	✓		✓	✓
NOISE EMI/RFI	✓		✓	✓

** Will provide some protection against surges; however, we recommend that transient protectors be used on lines where spikes, noise and interference occur.*

Our Policy

Rice Lake Weighing Systems recommends the installation of AC and/or DC transient protection, which is effective in significantly reducing both the frequency and degree of damage caused by AC and/or DC transient voltage occurrences. However, transient protection devices will not eliminate all damage caused by transient voltage. Rice Lake does not warrant or guarantee any transient protection device against damage or repair or any scale-related or other electrical/electronic device, which is intended to be protected by any transient protection device. No other warranty or guarantees—express or implied—contrary to this written policy are supported or acknowledged by Rice Lake.

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TP232 RS-232

Serial Surge Protector



Approvals

CE

Part Number/Price

Part #	Description	Est. Weight	Price
69201	RS-232 transient serial protection TP232 high energy surge protector	0.42 lb	$190.00

Options/Accessories

Part #	Description	Price
17778	12 in ground strap, copper braid	$22.00
17781	24 in ground strap, copper braid	$22.00
69516	Additional installation manual	$6.00



1280 Enterprise® Indicator



TP232



LaserLight3™ Remote Display

Standard Features

- Two metal mounting brackets
- Three stages of protection: Gas discharge tube, series resistor and transient voltage suppressor (TVS)
- Two terminal posts for ground
- RS-232 high energy surge protector
- Terminal blocks for transmit, receive, request to send, clear to send and signal ground
- Safe for use with computers and PLCs
- Also works with RS-485, RS-422 and 20 mA

Applications

- Indicators, remote displays, printers, computers and PLCs

Specifications

Clamping Voltage (Stage One):
72 V DC minimum, 108 V DC maximum

Series Resistance (Stage Two):
2.7 ohm

Clamping Voltage (Stage Three):
14.3 V minimum, 15.7 V maximum

Clamping Time:
< 5 × 10^9 seconds

Temperature:
Operating:
0 °F to 122 °F (-18 °C to 50 °C)

Connectors:
Five-position terminal blocks

Dimensions:
(L × W × H)
Approximately 4.5 × 3.3 × 1.8 in

Warranty:
One-year limited

Approvals:
CE Listed

Tripp-Lite DNET1

Ethernet Surge Suppressor



Part Number/Price

Part #	Description	Est. Weight	Price
72682	DNET1 Ethernet surge suppressor	1 lb	$80.00

Standard Features

- RJ45 input and output connections
- 5-in Ethernet patch cable enables ideal protection placed as close as possible to the point of use
- 6-in heavy gauge lead connects to designated grounding lugs on protected equipment
- Surge suppression utilizing high-speed avalanche diodes divert excess energies on the network to ground

Specifications

Interface Type:
RJ45

Application:
100 Base-T, 10 Base-T, Token Ring, AS400/Sys3x, RS-422. Ideal for NICs, terminals, hubs, MAUs, LAN equipment. RJ11/45-compatible. RJ45 cable included.

Lines Protected:
1 to 8

Peak Pulse Clamping Voltage:
7.5 V

NOTE: PoE not supported

Maximum Current:
750 amps

Warranty:
One-year limited

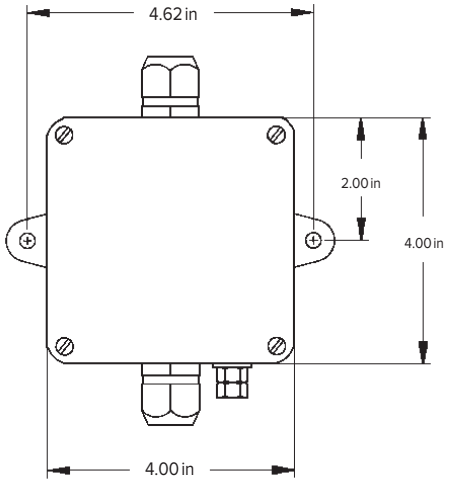
LCP-1 DC

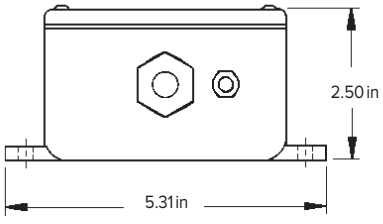
Transient Protector



Part Number/Price

Part #	Description	Est. Weight	Price
21143	LCP-1 DC with cable compression fittings	2 lb	$210.00





Standard Features

- Low cost, non-serviceable
- Effective series protection for strain gauge transducers
- Encapsulated circuitry ensures positive protection against fungus or corrosion on boards
- Two nylon strain reliefs for 0.187 to 0.312 in (4.7 to 7.9 mm) diameter cable

Specifications

Protection Type:
Four-channel series type with separate shield

Maximum Excitation Voltage Rate:
18 VDC or 18 VAC

Clamping Voltage:
75 VDC or 75 VAC

Clamping Time:
< 100 nanoseconds typical

Peak Surge Currents:
5,000 amps any line to ground and 5,000 amps excitation to excitation

Maximum Serial Transmission Rate:
30 Kbaud

Grounding:
Through a 0.25 in lug to a 20 ft insulated #10 AWG ground wire provided

Cable Fitting:
(2) Standard nylon strain relief for 0.187 to 0.312 in diameter cable

Enclosure:
Chemically-resistant PVC. This device, for outdoor or indoor service, is not intended for washdown service (NEMA 4) or for submersion (NEMA 6). Optional NEMA 4X available.

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Leakage:
7,500 M ohm minimum

Dimensions:
(L × W × H)
4.0 × 4.0 × 2.50 in

Warranty:
One-year limited

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UJB3T6 DC

Transient Protector

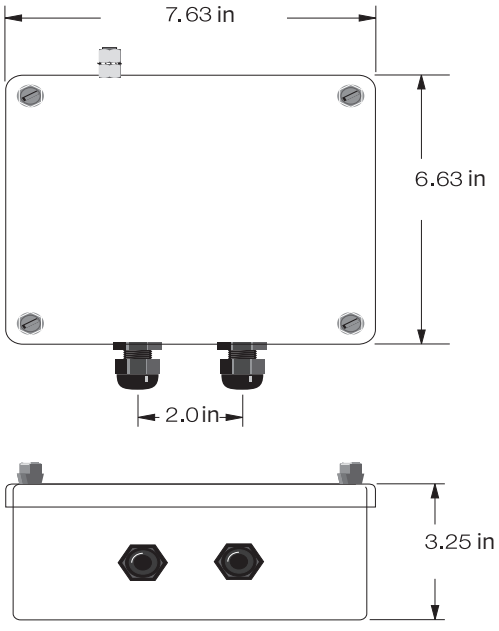


Part Number/Price

Part #	Description	Est. Weight	Price
21134	UJB3T6 DC six-channel load cell transient protector	4 lb	$495.00

Options/Accessories

Part #	Description	Price
21135	UJB3T6 DC six-channel load cell transient protector, board only	$285.00



Standard Features

- Protects load cells from voltage transients
- Compatible with signals down to 1 µV per grad
- Factory serviceable
- Full six-wire with shield protection
- #6 SEMS screw type; accepts spade lugs, tinned leads or bare wires up to #12 AWG
- Up to eight parallel or summed load cells

Applications

- Installations exposed to significant transients
- Environments where serial communication lines
- and load cells must be protected

Specifications

Protection Type:
Six-wire type with separate shield

Maximum Excitation Voltage:
20 VDC or 20 VAC

Clamping Voltage:
75 VDC or 75 VAC

Clamping Time:
75 VDC Stages <100 nanoseconds typical

Peak Surge Currents:
75 VDC Stage, 5,000 amps

Maximum Serial Transmission Rate:
50K baud

Series Resistance:
0.219 ohm typical

Series Inductance:
110 µH typical

Grounding:
20 ft insulated #10 AWG wire

Cable Fitting:
(2) Nylon strain relief for 0.079 to 0.236 in diameter cable

Enclosure:
NEMA Type 4X, maximum 40 psi washdown
Fiberglass Reinforced Polyester (FRP)

Temperature:
Operating:
4 °F to 104 °F (-10 °C to 40 °C)

Circuit Board:
6.75 × 4.75 in with anti-fungal coating

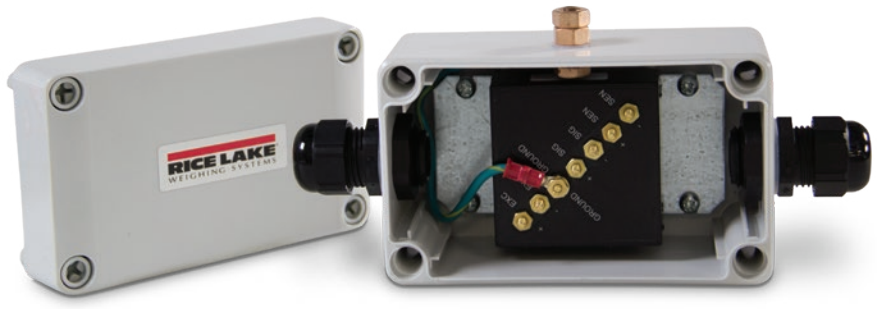
Dimensions:
(L × W × H)
7.63 × 6.63 × 3.25 in

Warranty:
One-year limited

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TP75 DC

Transient Protector

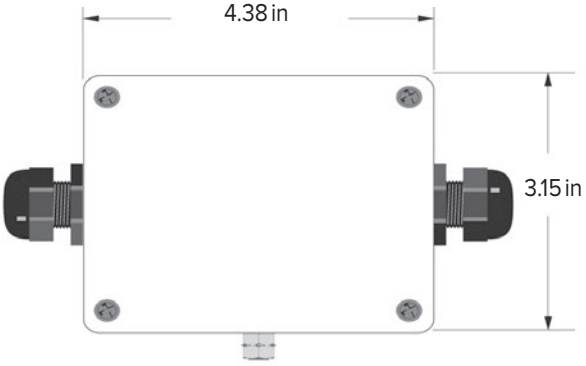


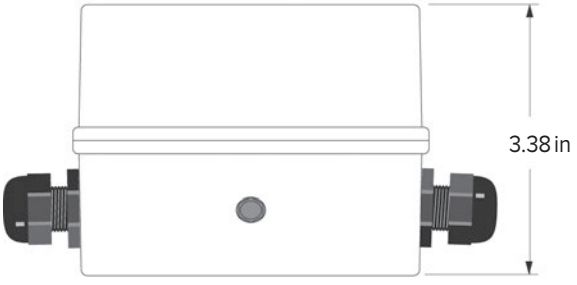
Part Number/Price

Part #	Description	Est. Weight	Price
33185	TP75, load cell protector and mounting hardware	2 lb	$340.00

Options/Accessories

Part #	Description	Price
31164	TP75 DC transient protection, board only, with labels	$265.00





Standard Features

- Protects load cells and indicators from voltage transients
- Avalanche diode design
- Full six-wire with shield protection
- NEMA Type 4X enclosure
- Unlimited number of parallel load cells; up to eight in series
- Terminal lugs provided

Applications

- Truck, railroad, tank, bin and hopper scales
- Suitable for outdoor use

Specifications

Protection Type:
Six-wire type with separate shield

Maximum Excitation Voltage:
22.8 VDC

Response Time:
Five nanoseconds

Peak Surge Currents:
100 amps

Grounding:
10 AWG wire or larger (not provided)

Cable Fitting:
(2) Nylon strain relief for 0.187 to 0.312 in diameter cable

Enclosure:
Impact-resistant polycarbonate NEMA Type 4X, maximum 40 psi washdown

Temperature:
Operating:
-4 °F to 149 °F (-20 °C to 65 °C)

Dimensions:
(L × W × H)
3.16 × 2.20 × 1.18 in

Warranty:
One-year limited

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Standard Features

- Two outlets, direct plug-in
- LED indicator for power on
- LED indicator for protection circuitry
- UL1449 listed at 330 volts
- Mounting clamp assures positive connection

Specifications

Input Voltage:
120 VAC

Clamping Voltage:
140 V rms

Clamping Time:
Less than five nanoseconds

Peak Surge Currents:
6,500 amps

Maximum Current:
15 amps

Maximum Power:
1,875 watts

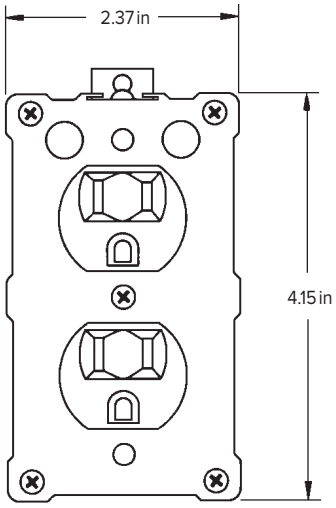
Noise Suppression:
Frequency Attenuation
50 KHz > 20 db
150 KHz > 40 db
1 MHz > 80 db
> 6 MHz > 30 db

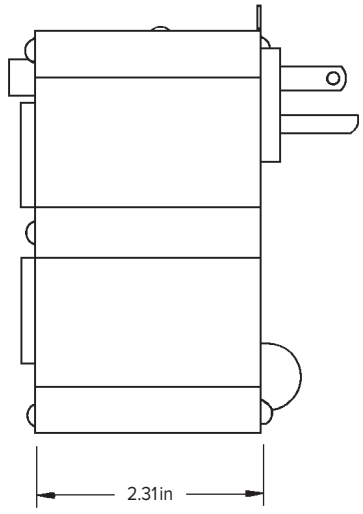
Dimensions:
(L × W × H)
4.15 × 2.37 × 2.31 in

Weight:
Approximately 1 lb

Part Number/Price

Part #	Description	Est. Weight	Price
21145	ISOBLOK AC two-outlet transient protector	1 lb	$125.00





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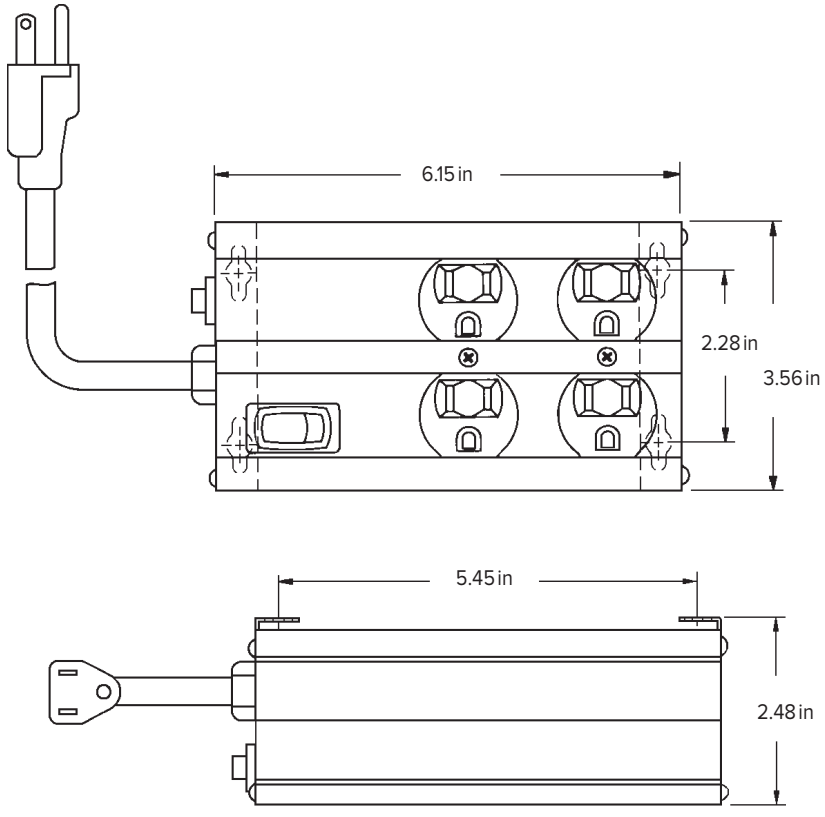
ISOBAR®

AC Transient Protector



Part Number/Price

Part #	Description	Est. Weight	Price
21146	ISOBAR AC ISO-4 4-outlet transient protector, 115 VAC	2 lb	$220.00
36663	ISOBAR 220 VAC Euro-4, 6 ft cord	3 lb	$195.00



Standard Features

- Four outlets
- Six-foot cord with grounded three-prong plug
- Lighted on/off switch
- Circuit breaker protected
- Multiple filter design prevents the different components of your system from interfering with each other
- UL1449 listed at 330 volts
- Exclusive isolated filter banks prevent equipment interaction
- ISOBAR cascade circuitry allows you to choose more protection for your most sensitive equipment and a lesser degree of protection for equipment with more tolerance

Specifications

Input Voltage:
120 VAC

Maximum Current:
15 amps

Maximum Power:
1,875 watts

Noise Suppression:
Frequency Attenuation
50 KHz > 20 db
150 KHz > 40 db
1 MHz > 80 db
> 6 MHz > 30 db

Dimensions:
(L × W × H)
6.15 × 3.56 × 2.48 in

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Standard Features

- Duplex receptacle
- 20 ft ground cable
- Factory serviceable
- 9 ft cord with three-prong plug
- Plugs into any grounded three-prong outlet
- Indicator light to confirm secure protection
- Shielded line cord
- Scale, computer and printer protection
- Can mount on any surface

Specifications

Protection Type:
13-stage filters out both common and normal mode transients

Voltage:
120 VAC 50/60 Hz, nominal

Maximum Current:
10 A rms instantaneous
7.5 A rms continuous

Clamping Time:
Less than three to five nanoseconds

EMI/RFI Protection:
13 stages

Grounding:
20 ft insulated #10 AWG wire provided

Enclosure:
Stainless steel

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

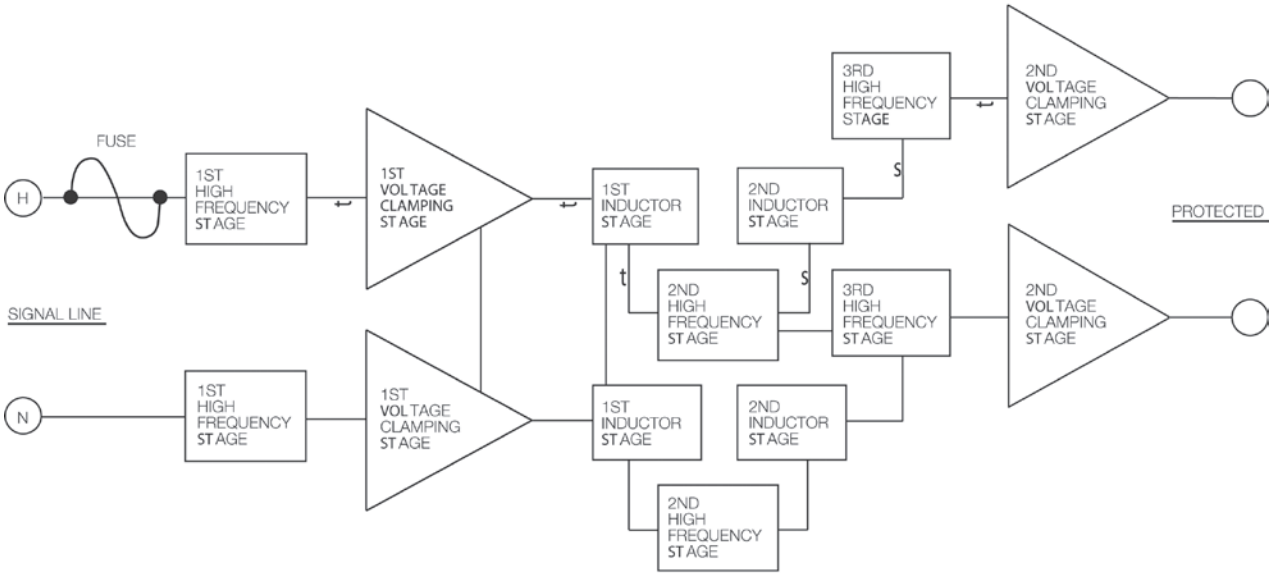
Circuit Board:
Fiberglass reinforced 4-glass epoxy

Dimensions:
(L × W × H)
8.00 × 6.00 × 2.50 in

Warranty:
One-year limited

Part Number/Price

Part #	Description	Est. Weight	Price
21136	EL226 AC two-outlet transient protector, 115 VAC	6 lb	$370.00



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EL225-4

AC Transient Protector



Standard Features

- Dedicated series transient protection
- Bidirectional design reduces noise on surrounding lines

Specifications

Protection Type:
Nine-stage series type filters out both common and normal mode transients

Maximum Current:
2 amps continuous

Trip Point:
130 VAC rms

Clamping Time:
Less than five nanoseconds

EMI/RFI Protection:
Nine stages

Grounding:
20 ft insulated #10 AWG wire provided

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Dimensions:
(L × W × H)
4.01 × 2.05 × 2.00 in

Warranty:
One-year limited

Part Number/Price

Part #	Description	Est. Weight	Price
21142	EL225-4 AC transient protector (chassis mount) 115 VAC	1 lb	$285.00

Sola MCR Series

AC Power Regulators



Standard Features

- Automatic overload protection
- Convenient lighted on/off switches
- Available in 70, 150 and 250 VA outputs
- Offered in standard 120 volt, 60 Hz models
- Two duplex receptacles allow several pieces of equipment to economically share the same source of regulated power

Specifications

Input:
Voltage: 120 V
Input Voltage Range: +10% to -20% of input nominal voltage

Control:
Lighted Enable Switch

Output:
Voltage: 120 V
Voltage Regulation: ±3% for an input line variation of +10% to -20%. Output will remain within NEMA voltage specifications for input voltages as low as 65% of nominal. No loss of output for line loss of three milliseconds.
Harmonic Distortion: Less than 3% total RMS content at full load

Noise Reduction:
Common mode noise rejection exceeds 120 dB (DC to 1 MHz)
Transverse mode noise rejection exceeds 60 dB (10 KHz to 1 MHz)

Protection:
Input: Surge suppression module
Output: Surge suppression module and ferroresonant technology suppresses ANSI/IEEE C62.41-1980 Class A and B waveforms to safe levels (formerly IEEE 587-1980)

Efficiency:
90% at full load (typical)

Reliability:
25-year continuous life, average

Temperature:
Operating:
-4 °F to 122 °F (-20 °C to 50 °C)

Construction:
Cruciform-type construction with precision die-cut shunts, gaps and spacing between windings

Dimensions:
(L × W × H)
9.25 × 6.75 × 6.25 in

Warranty:
One-year limited

Approvals:
UL listed to UL1012
CSA certified to CSA C22.2-66

Approvals

Part Number/Price

Part #	Description	Est. Weight	Price
21156	Sola MCR 150 AC power regulator, 150 VA	21 lb	$1,595.00
21157	Sola MCR 250 AC power regulator, 250 VA	29 lb	$1,995.00

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Tripp-Lite PV Series

Power Convertor



Standard Features

- Two 5-15R outlets
- Convenient on/off switch
- Transistorized and solid state for long life and quiet operation
- Three-foot cord with DC plug

Specifications

Input VDC:
12 V

Output VAC:
120 VAC

Frequency Hz:
60 Hz

Max Output:
Continuous: 375 watts
Intermittent: 375 watts

Input Amp:
No Load: 0.65 amps
Full load: 40 amps

Enclosure:
Non-sealed aluminum

Dimensions:
(L × W × H)
7.00 × 4.25 × 2.00 in

Warranty:
One-year limited

Part Number/Price

Part #	Description	Est. Weight	Price
79679	PV-375	3 lb	$225.00

Tripp-Lite LC1200

Power Regulator



Standard Features

- Maintains usable 120 V nominal output during brownouts as low as 87 V and overvoltages as high as 140 V
- 1,200 watts output power rating supports heavy 120 V loads up to 10 amps
- Network grade surge suppression rated at 1,200 joules
- Complete EMI/RFI noise filtering
- Seven diagnostic LEDs indicate input voltage levels, surge suppression status and line fault conditions
- Four protected NEMA Type 5-15R outlets
- Six-foot AC power cord with standard NEMA 5-15P input plug

Specifications

Max Output:
Continuous: 1,200 watts

Voltage/Frequency:
120 V/60 Hz

Cordset:
6 ft

AC Receptacles:
Four NEMA 5-15R

LED Indicators:
Seven (very high voltage, high voltage, normal voltage, low voltage, very low voltage, line fault, line OK)

Surge Energy Rating (Joules):
1,200

High Frequency Noise Suppression at 1 MHz:
80 dB

Dimensions:
(L × W × H)
6.75 × 5.75 × 6.75 in

Warranty:
One-year limited

NOTE:
LC models have isolated filter banks. Each duplex outlet pair is filtered from the rest to prevent interference between connected equipment.

Part Number/Price

Part #	Description	Est. Weight	Price
70726	LC1200, line conditioner four outlets, 1200 W	11 lb	$525.00

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Sola S1K/S3K

Uninterruptible Power Supply (UPS)



Standard Features

- Protects against most adverse power conditions, including: frequency variations, surge, noise, blackouts, lightning, spike, brownouts, and over and under voltages
- Data-line surge protection for phone or network included on every unit
- Greater uptime with intelligent power management, full-sequence battery testing and two-level overload protection

Specifications

Input VAC:
Online Operation:
115 VAC: +20%/-25%

Frequency:
Online: 50/60 Hz ± 1 Hz auto sensing

Overload Capacity:
120% ± 10% (Three minutes on line mode, 10 seconds on battery)

Max Output:
Continuous: 375 watts

Transfer Time:
Four ms typical

On Battery Voltage:
115 VAC: 115 VAC rms ± 10%

Output Voltage Waveform:
Step sine wave at 115 V

Output Protection:
Electronically limited

Input Protection:
Circuit breaker

Recharge Time (to 95% capacity):
Four hours

Lightning and Surge Protection:
ANSI/IEEE C62.41 categories A & B, IEC801.4, 801.5

Safety Certification:
115 VAC: UL listed to 1778, designed to meet UL497A, CSA certified to CSAC22.2 No. 107.1

EMI Compliance:
115 VAC: FCC Class B

Data Line Protection:
115 VAC: fax/modem, network

Indicators:
Online/utility fail/overload/replace battery

Audible Alarms:
Utility fail/overload/replace battery

Dimensions:
(L x W x H)
S1K: 5.3 × 3.8 × 12.6 in
S2K: 8.3 × 5.5 × 17.2 in

Warranty:
Two-year limited

Approvals

Part Number/Price

Part #	Model #	Capacity (Va/Watts)	Volts, Frequency In/Out	Typical Backup (Minutes)	Est. Weight	Input Plug/ Output Receptacle	Price
110812	520 VA S1K	520	115/115, 50/60 Hz	15	12 lb	5-15P(4) 5-15R	$575.00
203635	1,000 VA S3K	1,000/750	115/115, 50/60 Hz	18	39 lb	5-15P(4) 5-15R	$3,850.00

Note: 230 VAC versions available. Consult factory.

Note: Air around the above units must be free of dust, chemicals or other materials that corrode or contaminate

Eaton 3S/5S

Uninterruptible Power Supply (UPS)



Standard Features

- Five outlets with battery back up and surge protection
- UPS and Surge Protection
- Replaceable battery
- Data Line Protection

Specifications

Input VAC:
Online Operation:
89 to 151 VAC (3S)
93 to 138 VAC (5S)

Frequency:
Online: 50/60 Hz out sensing

Safety Markings:
UL, CUL, NOM

Indicators:
Power, LED

Audible Alarms:
No

Dimensions:
(L × W × H)
3S: 3.4 × 5.5 × 13.2 in
5S: 9.8 × 3.4 × 10.2 in

Warranty:
Three-year limited

Part Number/Price

Part #	Model #	Capacity (Va/Watts)	Volts, Frequency In/Out	Est. Weight	Input Plug/Output Receptacle	Price
154127	Eaton 3S	550/330	120 V	10 lb	NEMA Type 5-15R	$165.00
154128	Eaton 5S	700/450	120 V	16 lb	NEMA Type 5-15R	$350.00

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Precision Industrial Weighing

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Precision Industrial Weighing 823

RICE LAKE

Definity™ Series 824
Industrial Precision Scale

MINEBEA INTEC

Midrics® Series 825
Complete Scale

Midrics® 2 Series 826
Complete Scale

Combics® 2 827
Complete Scale

Midrics® 1 and 2 Series 828
Digital Weight Indicator

Signum Series 829
Complete Scale

Combics® 1 831
Digital Weight Indicator

Combics® 2 832
Digital Weight Indicator

Combics® 3 833

PURO® SmallFlat 834
Compact Single Display Scale

PURO® LargeFlat 835
Compact Single Display Scale

PURO® SmallTall 836
Compact Dual Display Scale

PURO® LargeTall 837
Compact Dual Display Scale

PURO® LargeCount 838
Counting Scale

Combics® 839
Bench and Floor Platform Scales

IF Series 840
Painted Steel Platform Scale

IF Series 842
Stainless Steel Platform Scale

IS Series 844
Industrial Scale Weighing Platform (not intrinsically safe)

Signum® EX Supreme 845
Exposion-proof Bench Scale

Combics® 2 Ex 846
Explosion-proof Digital Weight Indicator

Combics® 847
Explosion-proof Bench and Platform Scales

IF Series 848
Explosion-proof Platform Scales

Inteco 850
Zinc-plated Steel Star Mount Kits

Inteco 851
Stainless Steel Star Mount Kits

PR6202 852
Hygienic Weigh Module Kits

Contego-Hygienic Weigh Module Kits 853
Lateral Cable Outlet

PR5220 TCP/IP Ethernet Transmitter 854

PR5230 Fieldbus Transmitter 855

DIGI® DSX-1000 856
High-precision Checkweigher

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Definity™ Series

Industrial Precision Scale

COMING SOON



Standard Features

- Full color touchscreen
- Multi-language software
- Built-in three-way control light
- Integrated touchscreen QWERTY keyboard
- Single load cell
- Connect up to three additional analog bases
- Onboard 1MB database memory
- USB-C communication port for configuration, diagnostics and data backup
- Instrument calibration with numeric values
- NTEP (pending) for non-counting applications
- Myrias® software integration (see module section)
- GoDEX® printer compatibility
- Bar code scanner compatibility

Part Number/Price

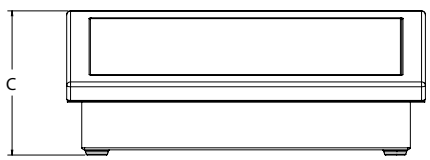
Part #	Dimensions	Certified Capacity Readability	Capacity	Readability	Est. Weight	Price
212456	12 x 14 in	10 × 0.001 kg 20 × 0.002 lb	14 kg 35 lb	0.0002 kg 0.0005 lb	30 lb	Consult
212457	12 x 14 in	20 × 0.002 kg 50 × 0.005 lb	35 kg 70 lb	0.0005 kg 0.001 lb	30 lb	Consult
212458	12 x 14 in	50 × 0.005 kg 100 × 0.01 lb	70 kg 140 lb	0.001 kg 0.002 lb	30 lb	Consult

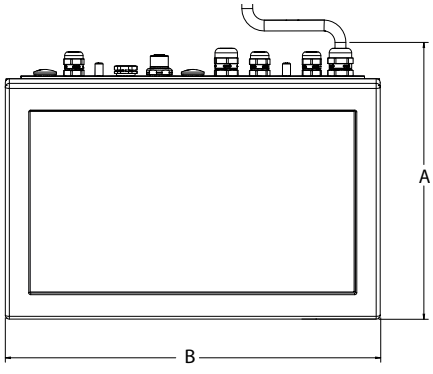
Options/Accessories

Part #	Description	Price
Consult	Desk Mount	Consult
Consult	Column	Consult
Consult	Ethernet TCP/IP/UDP	Consult
Consult	Myrias Counting Module	Consult
Consult	Rice Lake Tools Software	N/C

Dimensions

Definity Series			
A	8.10 in (206 mm)	C	4.40 in (112 mm)
B	11.00 in (279 mm)		





Specifications

Power :
100 to 240 VAC, 50/60 Hz

Power Consumption:
Indicator and integrated base: 5.3 W
Indicator with integrated base and an external load cell connected to the scale card: 5.5 W
Full power supply capacity: 25 W

Excitation Voltage:
5V, 1 × 350 ohm load cell

Additional Analog Base:
Excitation Voltage 5V

Analog Signal Input Range:
0 mV to +40 mV

Analog Signal Sensitivity:
Minimum 0.3µ V/e graduation

A/D Sample Rate:
Integrated scale base: fixed sample rate, 6 Hz
External analog bases: 6 to 3200 Hz, software selectable

Readability (Integrated Scale):
Up to 70,000 scale divisions

System Linearity:
Within 0.01% full scale

User Programs:
Static weighing, static checkweighing and counting

Digital I/O:
Four configurable outputs (5 V logic)
Two configurable inputs (5 V logic)

Communication Ports:
Two RS-232 (three-wire)
One RS-485/422 (two-wire)
One UCB-C (device)
One USB Host Type-A
Three four-wire load cell connections
One six-wire load cell connection

Annunciators:
Zero, Stable, Gross, Net, Tare

Display:
5.7 in LCD full color touchscreen

Character Height:
Up to 3 mm

Keys/Buttons:
15-key alphanumeric keyboard

Cable Length:
8.2 ft (2.5 m)

Dimensions (W x H x D):
Indicator: 11 × 4.4 × 8.1 in (279.40 × 111.76 × 205.74 mm)
Platform: 14.58 × 4.3 × 11.91 in (370.33 × 109.22 × 302.51 mm)

Temperature Range:
Certified: 14° F to 104° F (-10° C to 40° C)
Operating: 14° F to 122° F (-10° C to 50° C)

Rating/Material:
Rating: IP67
Indicator Enclosure: AISI 304 stainless steel
Base: Cast aluminum base and machined aluminum weigh platter
Top Cover: AISI 304 stainless steel

Weight:
23.24 lb (10.54 kg)

Warranty:
Two-year limited, pending evaluation

Approvals:
NTEP (pending)
Measurement Canada (pending)
UL Listed (pending)

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Standard Features

- Four adjustable feet, level indicator on LCE and NCE
- MIS1, UR 20 mm LCD indicator

Specifications

Power Supply:
100 to 200 VAC, 50/60 Hz

Readability:
15,000 scale intervals

Cable Length:
2.5 m (8.2 ft)

IP Rating:
IP65

Warranty:
Two-year limited, pending evaluation

Part Number/Price

Part #	Minebea Part #	Dimensions	Capacity	Readability	Est. Weight	Price
103668	MW1P1U-6DC-L	12.5 × 9.5 in	6 kg	0.5 g	22 lb	$2,002.00
103669	MW1P1U-15DC-L	12.5 × 9.5 in	15 kg	1 g	24 lb	$1,969.00
103670	MW1P1U-30ED-L	15.75 × 11.8 in	30 kg	2 g	24 lb	$2,123.00
103671	MW1P1U-60ED-L	15.75 × 11.8 in	60 kg	5 g	24 lb	$2,178.00
103672	MW1P1U-60FE-L	19.5 × 15.75 in	60 kg	5 g	22 lb	$2,431.00

Options/Accessories

Part #	Minebea Part #	Description	Price
171727	YDH12CWSUS	Holder base mount for ED base	$176.00
Consult	Consult	Stainless steel column	Consult
105607	YDH02CISUS	Wall-mount bracket, SST, tiltable	$143.00
193048	YDC01SW	Indicator dust cover pack of two	$121.00
Consult	YBP03CIS	Base for installing floor mounted option, SST	$205.00
Consult	YAS03MI	Indicator panel mount option	$196.00

Custom Part No. Configuration

MW / P / 1 / U - 30ED-L
- Model= MW1 or MW2
- P=Painted, S-Stainless
- 1 Cell
- Kg Capacity
- Platform Size
- Selected Resolution

Capacities
6 kg × 0.5 g
15 kg × 1 g
30 kg × 2 g
60 kg × 5 g

Platform Sizes
DC = 12.5 × 9.5 in
ED = 15.75 × 11.8 in
FE = 19.5 × 15.75 in

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MINEBEA INTEC

Midrics® 2 Series

Complete Scale



Part Number/Price

Part #	Minebea Part #	Dimensions	Capacity	Readability	Est. Weight	Price
Mild Steel with MIS2-U						
156428	MW2P1UE-10CC-I	10 × 10 in	15 lb (6 kg)	0.0005 lb (0.0002 kg)	18 lb	$2,123.00
156429	MW2P1UE-50DD-I	12 × 12 in	60 lb (30 kg)	0.002 lb (0.001 kg)	22 lb	$2,255.00
156430	MW2P1UE-100EE-I	18 × 18 in	150 lb (60 kg)	0.005 lb (0.002 kg)	63 lb	$2,942.50
156431	MW2P1URE-250GG-I	24 × 24 in	300 lb (150 kg)	0.01 lb (0.005 kg)	118 lb	$5,335.00
Stainless Steel with MIS2-U						
156432	MW2S1UE-10CC-I	10 × 10 in	15 lb (6 kg)	0.0005 lb (0.0002 kg)	18 lb	$2,997.50
156433	MW2S1UE-50DD-I	12 × 12 in	60 lb (30 kg)	0.002 lb (0.001 kg)	22 lb	$2,860.00
156434	MW2S1UE-100EE-I	18 × 18 in	150 lb (60 kg)	0.005 lb (0.002 kg)	63 lb	$3,437.50
156435	MW2S4URE-250GG-I	24 × 24 in	300 lb (150 kg)	0.01 lb (0.005 kg)	118 lb	$8,717.50

Options/Accessories

Part #	Minebea Part #	Description	Price
156440	YDH01CWSUS	Post mount assembly for 10 × 10 in platforms, 13 in high	$390.50
156441	YDH02CWSUS	Post mount assembly for 12 × 12 in platforms, 19 in high	$401.50
156442	YDH03CWSUS	Post mount assembly for 18 × 18 in platforms, 29 in high	$473.00
193048	YDC01SW	Indicator dust cover pack of two	$121.00

Standard Features

- Four adjustable feet, level indicator on LCE and NCE
- Midrics 2 with 10-key touchpad and application programs

Applications

- Counting, checkweighing, classification, totalizing, net-total formulation, animal weighing, percent weighing, neutral measurement

Specifications

Power Supply:
100 to 200 VAC, 50/60 Hz

Readability:
15,000 scale intervals

Cable Length:
3 m (10 ft)

Rating/Material:
Painted: IP65
Stainless steel: IP67/IP68

Warranty:
Two-year limited, pending evaluation

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Shown with optional post mount assembly

Part Number/Price

Part #	Minebea Part #	Dimensions	Capacity	Readability	Est. Weight	Price
Mild Steel with CAISL2-U						
156409	CAW2P1U-10CC-I	10 × 10 in	15 lb (6 kg)	0.0005 lb (0.0002 kg)	20 lb	$2,750.00
156414	CAW2P1U-50DD-I	12 × 12 in	60 lb (30 kg)	0.002 lb (0.001 kg)	24 lb	$2,887.50
156420	CAW2P1U-100EE-I	18 × 18 in	150 lb (60 kg)	0.005 lb (0.002 kg)	65 lb	$3,382.50
156423	CAW2P1U-250GG-I	24 × 24 in	300 lb (150 kg)	0.01 lb (0.005 kg)	120 lb	$5,582.50
Stainless Steel with CAIS2-U						
156424	CAW2S1U-10CC-I	10 × 10 in	15 lb (6 kg)	0.0005 lb (0.0002 kg)	22 lb	$3,630.00
156425	CAW2S1U-50DD-I	12 × 12 in	60 lb (30 kg)	0.002 lb (0.001 kg)	30 lb	$3,850.00
156426	CAW2S1U-100EE-I	18 × 18 in	150 lb (60 kg)	0.005 lb (0.002 kg)	68 lb	$4,675.00
156427	CAW2S4UR-250GG-I	24 × 24 in	300 lb (150 kg)	0.01 lb (0.005 kg)	127 lb	$9,225.00

CAW2P are an IP65 mild steel base with an IP44 indicator
CAW2S are an IP67 stainless steel base with an IP69K indicator

Options/Accessories

Part #	Minebea Part #	Description	Price
156440	YDH01CWSUS	Post mount assembly for 10 × 10 in platforms, 13 in high	$390.50
156441	YDH02CWSUS	Post mount assembly for 12 × 12 in platforms, 19 in high	$401.50
156442	YDH03CWSUS	Post mount assembly for 18 × 18 in platforms, 29 in high	$473.00
171727	YDH12CWSUS	Bench mount bracket	$176.00
105607	YDH02CISUS	Tiltable wall mount bracket	$143.00
Consult	69CW0126	Power supply	Consult

Standard Features

- Amber backlit LCD display, 0.8 in, 13 segment
- External calibration routine
- RS-232C
- Numeric keypad (with two IDs) for entering identifier codes and preset tares
- Info key for quick and easy display of tare input and ID codes
- Date/time fully integrated
- Three built-in LED checkweighing lights
- Bar graph weighing range indicator
- Optional bar code scanner for preset tare, reference weight and ID entry
- Stored customer-specific data records
- Two scale connections, analog or digital

Applications

- Counting, checkweighing, differential weighing, percentage weighing, totalizing, net-total, animal weighing, neutral measurement

Specifications

Supply Voltage:
9 V

Power Requirements:
120 to 240 VAC, 17 W (23 VA maximum)

Indicator Housing:
AISI 304 stainless steel

Indicator Dimensions:
(L × W × H)
11.9 × 7.4 × 3.5 in
(302.3 × 188 × 89 mm)

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Cable Length:
3 m (10 ft)

Warranty:
Two-year limited, pending evaluation

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MINEBEA INTEC

Midrics® 1 and 2 Series

Digital Weight Indicator



Approvals

Part Number/Price

Part #	Minebea Part #	Description	Price
155855	MIS1UR-V1	Midrics 1, wall bracket (table top versions with U bracket)	$940.50
155857	MIS1U-L9	Midrics 1, wall bracket, internal battery pack	$1,298.00
155856	MIS2UR-V2	Midrics 2, wall bracket (table top versions with U bracket)	$1,056.00
155859	MIS2U-L9	Midrics 2, wall bracket, internal battery pack	$1,419.00

Options/Accessories

Part #	Minebea Part #	Description	Price
155860	YDO01M-232CLK	Replacement RS-232 interface and clock	$335.50
103044	YDA01M-20MA	Analog current output, 0-20 mA, 4-20 mA, 0-10 V (16-bit)	$770.00
155805	YCC01-USBM2	Connecting cable from RS-232 to USB connector, 2 m	$330.00
155806	YCC02-D25F6	Connecting cable for accessories 25-pin D-SUB female	$352.00
Consult	YAS03-M1	Panel mount option	Consult
193048	YDC01SW	Dust cover pack of two	$121.00
171727	YDH12CWSUS	Bracket, bench mount for DC, ED, and FE	$176.00

Standard Features

- Amber backlit 14-segment, 20 mm LCD display
- Wall-mount bracket
- Time and date
- RS-232 and clock (V1 and V2 models only)
- Midrics 2 numerical keyboard

Applications

- Counting, checkweighing, sorting (3 or 5 classes), totalizing, net-total, animal weighing, weighing in percent, neutral measurement

Options

- 4 to 20 mA

Specifications

Load Cell Connection:
Excitation voltage 8.4 V
4 or 6 conductor

Power Requirements:
100 to 240 VAC (-15/10) 50/60 Hz, Max 17 W/23 VA

Power Cord:
3 m (10 ft)

Rating/Material:
IP65
304 stainless steel enclosure

Dimensions:
(L × W × H))
9.37 × 6.50 × 3.70 in
(238 × 165 × 94 mm)

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Net Weight:
5 lb (2.3 kg)

Warranty:
Two-year limited, pending evaluation

Approvals:
NTEP Class III

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Signum Series

Complete Scale



Weighing Technology	Indicator Options	Capacity	Readability	Included
SIWRDCP (Load Cell)	Applications level 1 - Tare, Zero, Weight Toggle OR Application level 3 - Tare, Zero, Counting, Checkweighing, IDs	3, 6, 15, 35, and 60 kg	30,000 d	IP65, RS-232, detachable display
SIWADCP (Temperature Compensated Load Cell)		7, 16, 35 and 65 kg	70,000 d	IP65, RS-232
SIWSDCP (Monolythic)		6, 16 and 35 kg	160,000 to 600,000 d	IP65, RS-232, detachable display

Standard Features

- Compact scale built as custom
- Three indicator models: 6, 14 or 28 keys
- Three weighing technologies: load cell, mechatronic or monolithic
- Resolution 35,000 to 350,000 d
- Built-in motorized calibration weight (Signum Supreme)
- RS-232 output

Specifications

Power:
Multi-range, 110 to 240 V

Temperature:
Operating: 14 °F to 104 °F (-10 °C to 40 °C)

Measurement Technology:
SIWRDCP-Load cell signum regular
SIWADCP-Mechatronic cell-advanced
SIWSDCP-Monolythic-supreme

Rating/Material:
IP65
Painted steel frame with a stainless steel cover

Cable Length:
Display: 6 ft (1.83 m) approximately

Platform Size:
13.8 × 9.5 in (351 × 241 mm)

Warranty:
Two-year limited, pending evaluation

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Signum Series

Complete Scale

Part Number/Price

Part #	Minebea Part #	Dimensions	Application Level	Capacity	Readability	Est. Weight	Price
103665	SIWADCP-V3	13.7 × 9.5 in	1	7 kg	0.1 g	29 lb	$3,355.00
103666	SIWADCP-V4	13.7 × 9.5 in	3	7 kg	0.1 g	29 lb	$4,400.00
105853	SIWADCP-V5	13.7 × 9.5 in	3	35 kg	0.5 g	29 lb	$4,455.00
105854	SIWADCP-V6	13.7 × 9.5 in	3	65 kg	1 g	29 lb	$4,455.00
105855	SIWRDCP-V6	13.7 × 9.5 in	1	3 kg	0.1 g	29 lb	$2,541.00
103657	SIWRDCP-V7	13.7 × 9.5 in	1	6 kg	0.2 g	29 lb	$2,563.00
103658	SIWRDCP-V8	13.7 × 9.5 in	1	15 kg	0.5 g	29 lb	$2,585.00
103659	SIWRDCP-V9	13.7 × 9.5 in	1	35 kg	1 g	29 lb	$2,618.00
103660	SIWRDCP-V10	13.7 × 9.5 in	1	60 kg	2 g	29 lb	$2,640.00
151372	SIWSBBP-V16	7.1 × 7.1 in	1	3 kg	0.01 g	16.5 lb	$6,490.00
151373	SIWSBBP-V17	7.1 × 7.1 in	1	6 kg	0.01 g	16.5 lb	$7,837.50
151374	SIWSDCP-V18	13.7 × 9.5 in	1	16 kg	0.1 g	29 lb	$7,700.00
151375	SIWSDCP-V19	13.7 × 9.5 in	1	35 kg	0.1 g	29 lb	$8,387.50
151376	SIWRDCP-V20	13.7 × 9.5 in	3	6 kg	0.2 g	29 lb	$3,520.00
151377	SIWRDCP-V21	13.7 × 9.5 in	3	15 kg	0.5 g	29 lb	$3,547.50
151378	SIWRDCP-V22	13.7 × 9.5 in	3	35 kg	1 g	29 lb	$3,575.00
151379	SIWRDCP-V23	13.7 × 9.5 in	3	60 kg	2 g	29 lb	$3,602.50
151410	SIWADCP-V24	13.7 × 9.5 in	1	16 kg	0.2 g	29 lb	$3,382.50
151411	SIWADCP-V25	13.7 × 9.5 in	1	35 kg	0.5 g	29 lb	$3,410.00

Options/Accessories

Part #	Minebea Part #	Description	Price
36907	YDP21	Data printer, statistics and T/D functions, 5 ft cable (requires 83248)	$1,606.00
31106	6906918	Ribbon	$126.50
31103	6906937	Paper	$89.10
83248	YCC01-0016M3	Cable, 9.8 ft, 12-pin round to 25 D-Sub female	$522.50
105607	YDH02CISUS	Wall mount bracket	$143.00
153218	YDH01P	Column for DC platforms, 19 in	$803.00
155884	YDH02P	Column to BBP	$858.00
155804	YCC05-001M5	RS-232 cable, 25-pin D-sub male to 9/25-pin D-sub female	$192.50
193048	YDC01SW	Dust cover pack of two	$121.00
194664	YDO01CS-ETH	Ethernet option (for DCP & EDG models only)	$1,133.00
199894	YDO03SW-ETH	Ethernet option (for BBP models only)	$1,287.00
Consult	69CW0126	Power cord	Consult

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Part Number/Price

Part #	Minebea Part #	Description	Est. Weight	Price
102396	CAISL1-U	IP44 protection rated	7.5 lb	$1,617.00
102398	CAIS1-U	IP69K protection rated	7.5 lb	$2,178.00
115668	CAISL1-UV1	IP44, controller for IS base	7.5 lb	$2,266.00
115671	CAIS1-UV1	IP69K, controller for IS base	7.5 lb	$2,607.00

Options/Accessories

Part #	Minebea Part #	Description	Price
105607	YDH02CISUS	Wall mount bracket	$143.00
171727	YDH12CWSUS	Bench mount bracket	$176.00
156440	YDH01CWSUS	Post mount assembly for 10 × 10 in platforms, 13 in high	$390.50
156441	YDH02CWSUS	Post mount assembly for 12 × 12 in platforms, 19 in high	$401.50
156442	YDH03CWSUS	Post mount assembly for 18 × 18 in platforms, 29 in high	$473.00
103049	YAS02MI	24 V industrial power supply	$335.50
162640	YDO02C-ETH	Ethernet TCP/IP	$1,276.00
155826	YDO02C-AO	Analog output, 0-20 mA, 4-20 mA, 0-10 V	$1,276.00
193049	YDC01CI	Dust cover pack of two	$121.00
Cables			
155804	YCC05-001M2	RS-232 9/25-pin D-Sub female, 1.5 m, IP44	$192.50
155805	YCC01-USBM2	RS-232 to USB connector, 2 m IP44	$330.00
155806	YCC02-D25F6	RS-232 open to 25 D-Sub female	$352.00

Standard Features

- Amber backlit LCD display, 0.8 in
- Three-way unit toggle; 10x higher resolution toggle
- External calibration routine
- RS-232C
- One scale connection

Applications

- Designed for use with Combics IF and IS Series platforms
- Various accessories may differ and are application dependent

Specifications

Power Requirements:
120 to 240 VAC, 17 W / 23 VA maximum

Excitation Voltage:
9 V

Load Cell Connection:
Four- or six-wire

Annunciators:
On/Off, Zero, Tare, Print/Data

Keys/Buttons:
Gross/Net toggle

Dimensions:
(L × W × H)
11.9 × 7.4 × 3.5 in
(302 × 188 × 90 mm)

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Rating/Material:
AISI 304 stainless steel
IP44, IP69K

Warranty:
Two-year limited, pending evaluation

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MINEBEA INTEC

Combics® 2

Digital Weight Indicator



Part Number/Price

Part #	Minebea Part #	Description	Est. Weight	Price
102402	CAISL2-U	IP44 protection rated	7.5 lb	$2,013.00
102404	CAIS2-U	IP69K protection rated	7.5 lb	$2,574.00
115670	CAISL2-UV1	IP44, controller for IS base	7.5 lb	$2,629.00
115673	CAIS2-UV1	IP69K, controller for IS base	7.5 lb	$3,107.50

Options/Accessories

Part #	Minebea Part #	Description	Price
105607	YDH02CISUS	Wall mount bracket	$143.00
171727	YDH12CWSUS	Bench mount bracket	$176.00
156440	YDH01CWSUS	Post mount assembly for 10 × 10 in platforms, 13 in high	$390.50
156441	YDH02CWSUS	Post mount assembly for 12 × 12 in platforms, 19 in high	$401.50
156442	YDH03CWSUS	Post mount assembly for 18 × 18 in platforms, 29 in high	$473.00
103049	YAS02MI	24 V industrial power supply	$335.50
162640	YDO02C-ETH	Ethernet TCP/IP	$1,276.00
155826	YDO02C-A0	Analog output, 0-20 mA, 4-20 mA, 0-10 V	$1,276.00
193049	YDC01CI	Dust cover pack of two	$121.00
Cables			
155804	YCC05-001M2	RS-232 9/25-pin D-Sub female, 1.5 m, IP44	$192.50
155805	YCC01-USBM2	RS-232 to USB connector, 2 m IP44	$330.00
155806	YCC02-D25F6	RS-232 open to 25 D-Sub female	$352.00

Standard Features

- Amber backlit LCD display, 0.8 in, 13-segment
- External calibration routine
- RS-232C
- Three-way unit toggle; 10x higher resolution toggle
- Numeric keypad with two IDs for entering identifier codes and preset tare
- Info key for quick and easy display of tare input and ID codes
- Date/time fully integrated
- GMP compliant printable record
- NICE Label Express FlexiPrint compatible
- Platform toggling and four function keys
- Bar graph weighing range indicator
- Application data and totalization memory stored in battery-backed RAM
- Optional bar code scanner for preset tare, reference weight and ID entry
- Stored customer-specific data records
- Optional two scale connections, analog or digital

Applications

- Designed for use with Combics IF and IS Series platforms
- Various accessories may differ and are application dependent
- Pre-installed software for counting, checkweighing, differential weighing, percentage weighing, gross-net-tare, sorting, net-total, animal weighing, averaging and totalizing applications

Specifications

Power Requirements:
120 to 240 VAC, 17 W / 23 VA maximum

Excitation Voltage:
9 V

Load Cell Connection:
Four- or six-wire

Annunciators:
Gross/Net toggle

Keys/Buttons:
On/Off, Zero, Tare, Print/Data

Dimensions:
(L × W × H)
11.9 × 7.4 × 3.5 in
(302 × 188 × 90 mm)

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Rating/Material:
AISI 304 stainless steel
IP44, IP69K

Warranty:
Two-year limited, pending evaluation

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Part Number/Price

Part #	Minebea Part #	Description	Est. Weight	Price
102405	CAISL3-U	IP44 protection rated	7.5 lb	$2,684.00
Consult	CAISL3-UV1	IP44, controller for IS base	7.5 lb	$2,207.00
102407	CAIS3-U	IP69K protection rated	7.5 lb	$3,245.00
115674	CAIS3-UV1	IP69K, controller for IS base	7.5 lb	$3,712.50

Options/Accessories

Part #	Minebea Part #	Description	Price
105607	YDHO2CISUS	Wall mount bracket	$143.00
171727	YDH12CWSUS	Bench mount bracket	$176.00
156440	YDH01CWSUS	Post mount assembly for 10 × 10 in platforms, 13 in high	$390.50
156441	YDH02CWSUS	Post mount assembly for 12 × 12 in platforms, 19 in high	$401.50
156442	YDH03CWSUS	Post mount assembly for 18 × 18 in platforms, 29 in high	$473.00
103049	YAS02MI	2 V industrial power supply	$335.50
155826	YDO02C-A0	Analog output, 0-20 mA, 4-20 mA, 0-10 V	$1,276.00
162640	YDO02C-ETH	Ethernet TCP-IP	$1,276.00
193049	YDC01CI	Dust cover pack of two	$121.00
Cables			
155804	YCC05-001M2	RS-232 9/25-Pin D-Sub female, 1.5 m, IP44	$192.50
155805	YCC01-USBM2	RS-232 to USB connector, 2 m IP44	$330.00
155806	YCC02-D25F6	RS-232 open to 25 D-Sub female	$352.00

Standard Features

- Backlit LCD display
- Keypad with two IDs for entering identifier codes and preset tare
- Info key for quick and easy display of tare input and ID codes
- Date/time fully integrated
- GMP/GLP printable record
- Platform toggling and four function keys
- Bar graph weighing range indicator
- Application data and totalization memory stored in battery-backed RAM
- Optional bar code scanner for preset tare, reference weight and ID entry
- Stored customer-specific data records
- Key for toggling between weighing applications, and five soft keys with text-supported user guidance
- Input functions for entering up to four alphanumeric ID texts

Applications

- Combics 2 and Combics 3 indicators are designed for use with Combics IF and Combics IS series platforms
- Various accessories may differ and are application dependent
- Pre-installed software for counting, checkweighing, differential weighing, percentage weighing, gross-net-tare, sorting, net-total and animal weighing applications
- Custom application packages: single component batching BASIC and single component batching PRO

Specifications

Power Requirements:
120 to 240 VAC, 17 W / 23 VA maximum

Excitation Voltage:
9 V

Load Cell Connection:
Four- or six-wire

Annunciators:
Gross/Net toggle

Keys/Buttons:
On/Off, Zero, Tare, Print/Data

Dimensions:
(L × W × H)
11.9 × 7.4 × 3.5 in
(302 × 188 × 90 mm)

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Rating/Material:
AISI 304 stainless steel
IP44, IP69K

Warranty:
Two-year limited, pending evaluation

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PURO® SmallFlat

Compact Single Display Scale



Standard Features

- Large, bright LED display
- Traffic light function
- Built-in USB-C and USB-A
- Three LED (yellow, green, red) indicator lights with configurable operation and alert beeper

Specifications

Power:
100 to 240 V, 50/60 Hz AC adapter
Internal battery, rechargeable lithium battery

Battery Operation Time:
Up to 500 hours continuous use between recharges with 12 hour recharge time

Rating/Material:
ABS housing/stainless steel 304 load plate, IP43

Display:
LCD, up to 1.4 in (35 mm), six-digit, 14-segment, white backlight

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited, pending evaluation

Part Number/Price

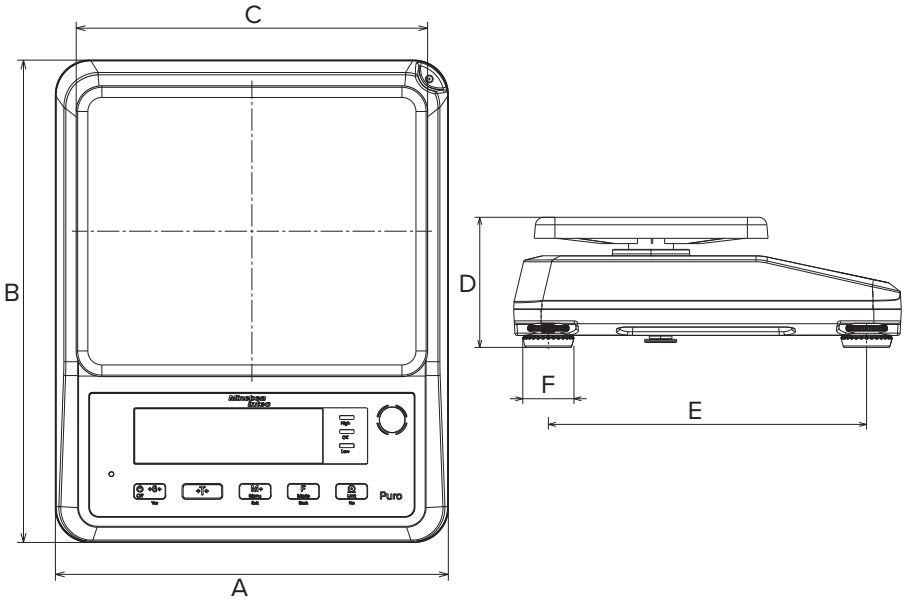
Part #	Minebea Part #	Description	Price
218574	EF-SF2-P1	3 × 0.0001 lb (1.5 × 0.00005 kg)	$533.50
218575	EF-SF2-P3	6 × 0.0002 lb (3 × 0.0001 kg)	$533.50
218576	EF-SF2-P6	15 × 0.0005 lb (6 × 0.0002 kg)	$533.50
218577	EF-SF2-P15	30 × 0.001 lb (15 × 0.0005 kg)	$533.50
218578	EF-SF2-P30	60 × 0.002 lb (30 × 0.001 kg)	$533.50

Options/Accessories

Part #	Description	Price
218599	Replacement power adapter	$103.40

Dimensions

SmallFlat			
A	9.69 in (246 mm)	D	3.99 in (101 mm)
B	11.90 in (302 mm)	E	9.76 in (248 mm)
C	8.67 in (220 mm)	F	1.57 in (Ø40 mm)



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PURO® LargeFlat

Compact Single Display Scale



Standard Features

- Large, bright LED display
- Traffic light function
- Built-in RS-232, USB-C and USB-A
- Three LED (yellow, green, red) indicator lights with configurable operation and alert beeper
- Smart connectivity and application packages

Specifications

Power:
100 to 240 V, 50/60 Hz AC adapter
Internal battery, rechargeable lithium battery

Battery Operation Time:
Up to 500 hours continuous use between recharges with 12 hour recharge time

Rating/Material:
ABS housing/stainless steel 304 load plate, IP43

Display:
LCD, up to 1.4 in (35 mm), six-digit, 14-segment, white backlight

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited, pending evaluation

Part Number/Price

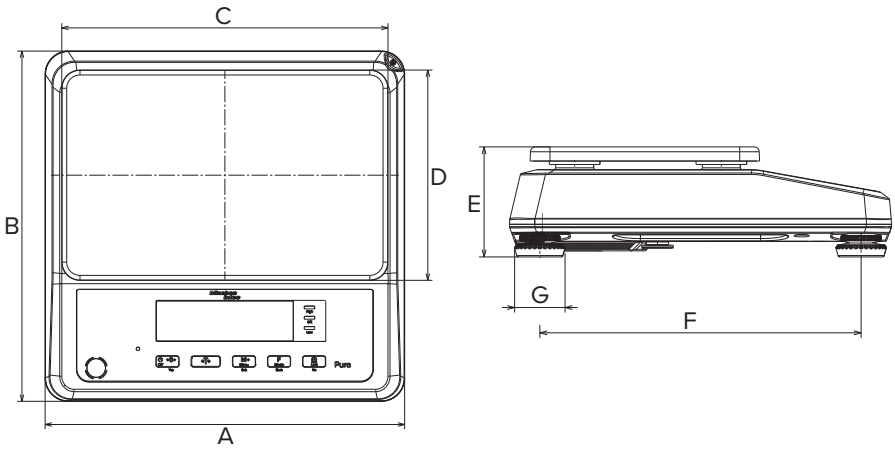
Part #	Minebea Part #	Description	Price
218579	EF-LF2-P1	3 × 0.0001 lb (1.5 × 0.00005 kg)	$748.00
218580	EF-LF2-P3	6 × 0.0002 lb (3 × 0.0001 kg)	$748.00
218581	EF-LF2-P6	15 × 0.0005 lb (6 × 0.0002 kg)	$748.00
218582	EF-LF2-P15	30 × 0.001 lb (15 × 0.0005 kg)	$748.00
218583	EF-LF2-P30	60 × 0.002 lb (30 × 0.001 kg)	$748.00

Options/Accessories

Part #	Description	Price
218599	Replacement power adapter	$103.40

Dimensions

LargeFlat			
A	12.21 in (310 mm)	E	3.43 in (87 mm)
B	11.90 in (302 mm)	F	10.00 in (254 mm)
C	11.08 in (281 mm)	G	1.57 in (Ø40 mm)
D	7.14 in (181 mm)		



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PURO® SmallTall

Compact Dual Display Scale



Standard Features

- Large front and rear display
- Traffic light function
- Battery powered
- Built-in USB-C and USB-A

Specifications

Power:
100 to 240 V, 50/60 Hz AC adapter
Internal battery, rechargeable lithium battery

Battery Operation Time:
Up to 500 hours continuous use between recharges with 12 hour recharge time

Rating/Material:
ABS housing/stainless steel 304 load plate, IP43

Display:
Front and rear LCD, up to 1.4 in (35 mm), six-digit, 14-segment, white backlight

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited, pending evaluation

Part Number/Price

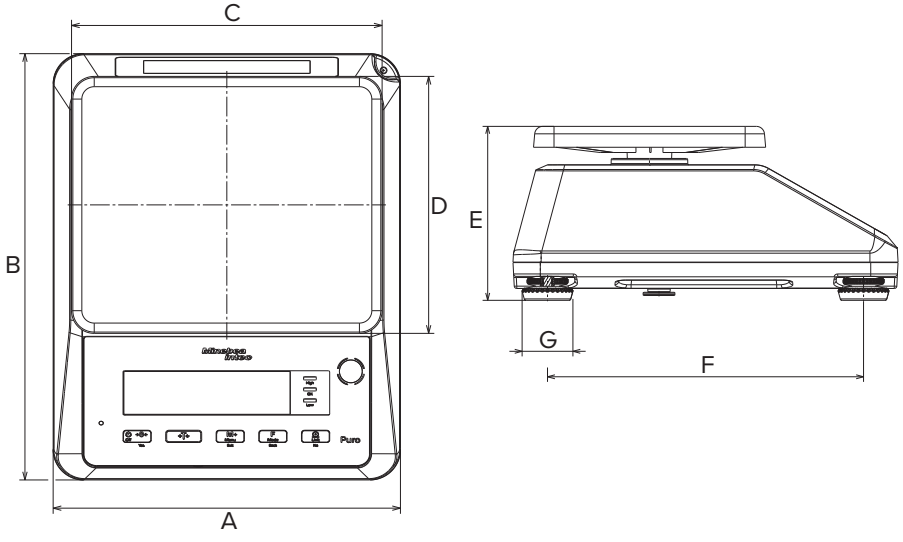
Part #	Minebea PN	Description	Price
218584	EF-ST2-P1	3 × 0.0001 lb (1.5 × 0.00005 kg)	$638.00
218585	EF-ST2-P3	6 × 0.0002 lb (3 × 0.0001 kg)	$638.00
218586	EF-ST2-P6	15 × 0.0005 lb (6 × 0.0002 kg)	$638.00
218587	EF-ST2-P15	30 × 0.001 lb (15 × 0.0005 kg)	$638.00
218588	EF-ST2-P30	60 × 0.002 lb (30 × 0.001 kg)	$638.00

Options/Accessories

Part #	Description	Price
218599	Replacement power adapter	$103.40

Dimensions

SmallTall			
A	9.69 in (246 mm)	E	5.43 in (138 mm)
B	11.90 in (302 mm)	F	9.76 in (248 mm)
C	8.67 in (220 mm)	G	1.57 in (Ø40 mm)
D	7.17 in (182 mm)		



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PURO® LargeTall

Compact Dual Display Scale



Standard Features

- Large front and rear display
- Traffic light function
- Battery powered
- Built-in USB-C

Specifications

Power:
100 to 240 V, 50/60 Hz AC adapter
Internal battery, rechargeable lithium battery

Battery Operation Time:
Up to 500 hours continuous use between recharges with 12 hour recharge time

Rating/Material:
ABS housing/stainless steel 304 load plate, IP43

Display:
Front and rear LCD, up to 1.4 in (35 mm), six-digit, 14-segment, white backlight

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited, pending evaluation

Part Number/Price

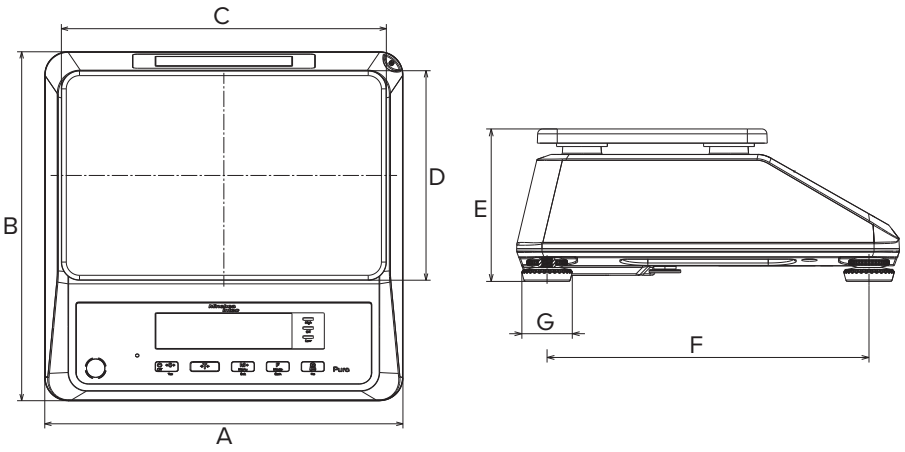
Part #	Minebea Part #	Description	Price
218589	EF-LT2-P1	3 × 0.0001 lb (1.5 × 0.00005 kg)	$825.00
218590	EF-LT2-P3	6 × 0.0002 lb (3 × 0.0001 kg)	$825.00
218591	EF-LT2-P6	15 × 0.0005 lb (6 × 0.0002 kg)	$825.00
218592	EF-LT2-P15	30 × 0.001 lb (15 × 0.0005 kg)	$825.00
218593	EF-LT2-P30	60 × 0.002 lb (30 × 0.001 kg)	$825.00

Options/Accessories

Part #	Description	Price
218599	Replacement power adapter	$103.40

Dimensions

LargeTall			
A	12.21 in (310 mm)	E	4.76 in (121 mm)
B	11.90 in (302 mm)	F	10.00 in (254 mm)
C	11.08 in (281 mm)	G	1.57 in (Ø40 mm)
D	7.14 in (181 mm)		



PURO® LargeCount

Counting Scale



Standard Features

- Three large front displays
- Traffic light function
- Battery powered
- Easy charging via USB-C
- Built-in second ADC

Specifications

Power:
100 to 240 V, 50/60 Hz AC adapter
Internal battery, rechargeable lithium battery

Battery Operation Time:
Up to 500 hours continuous use between recharges with 12 hour recharge time

Rating/Material:
ABS housing/stainless steel 304 load plate, IP43

Display:
Three windows, LCD, up to 1.4 in (35 mm), six-digit, 14-segment, white backlight

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
Two-year limited, pending evaluation

Part Number/Price

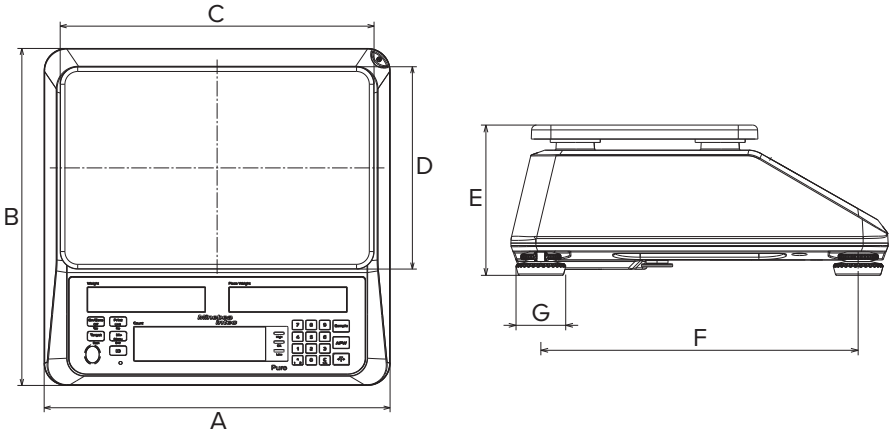
Part #	Minebea Part #	Description	Price
218594	EF-LT-3-P1	3 × 0.0001 lb (1.5 × 0.00005 kg)	$885.50
218595	EF-LT-3-P3	6 × 0.0002 lb (3 × 0.0001 kg)	$885.50
218596	EF-LT-3-P6	15 × 0.0005 lb (6 × 0.0002 kg)	$885.50
218597	EF-LT-3-P15	30 × 0.001 lb (15 × 0.0005 kg)	$885.50
218598	EF-LT-3-P30	60 × 0.002 lb (30 × 0.001 kg)	$885.50

Options/Accessories

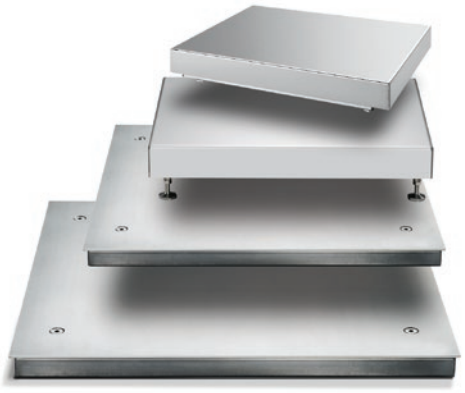
Part #	Description	Price
218599	Replacement power adapter	$103.40

Dimensions

LargeCount			
A	12.21 in (310 mm)	E	4.74 in (120 mm)
B	11.90 in (302 mm)	F	10.00 in (254 mm)
C	11.08 in (281 mm)	G	1.57 in (Ø40 mm)
D	7.14 in (181 mm)		



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Standard Features

- One or four load cells (as noted)
- NTEP Certified (up to 5,000 e) and capable of up to 30,000 d for non-NTEP
- Compatible with all Rice Lake and Combics indicators (30,000 d not guaranteed with Rice Lake instrumentation)

Optional Configurations

- Complete selection of pit frames for flush mounting available
- R2: electropolished 316T, stainless steel
- T1: pressure lift system (only available for II platforms and larger)
- Drive-on ramps
- Pit frame
- Mild, painted or 304 stainless steel
- 304 stainless steel platters

Specifications

Cable Length:
10 ft/3 m-up to 1,000 lb 30 × 30 in
20 ft/6 m 1,000 lb and above 36 × 36 in

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Height:
Adjustable feet

Warranty:
Two-year limited, pending evaluation

Part Number/Price

Part #	Minebea Part #	Dimensions	Foot Adjustable Height	# Load Cells	Capacity Readability		Capacity Readability		Est. Weight	Price
Painted Steel										
102285	CAPP1U-10CC-LU	10 × 10 in	2.7 to 3.6 in	1	15 lb	0.0005 lb	6 kg	0.0002 kg	14 kg	$1,061.50
102286	CAPP1U-20CC-LU	10 × 10 in	2.7 to 3.6 in	1	30 lb	0.001 lb	15 kg	0.0005 kg	14 kg	$1,061.50
102287	CAPP1U-50CC-LU	10 × 10 in	2.7 to 3.6 in	1	60 lb	0.002 lb	30 kg	0.001 kg	14 kg	$1,061.50
102288	CAPP1U-50DD-LU	12 × 12 in	3.6 to 4.5 in	1	60 lb	0.002 lb	30 kg	0.001 kg	18 kg	$1,210.00
102291	CAPP1U-100DD-LU	12 × 12 in	3.6 to 4.5 in	1	150 lb	0.005 lb	60 kg	0.002 kg	18 kg	$1,177.00
102289	CAPP1U-50EE-LU	18 × 18 in	3.5 to 4.4 in	1	60 lb	0.002 lb	30 kg	0.001 kg	64 kg	$1,771.00
102292	CAPP1U-100EE-LU	18 × 18 in	3.5 to 4.4 in	1	150 lb	0.005 lb	60 kg	0.002 kg	64 kg	$1,771.00
102297	CAPP1U-200EE-LU	18 × 18 in	3.5 to 4.4 in	1	200 lb	0.01 lb	100 kg	0.005 kg	64 kg	$1,771.00
102294	CAPP1U-100GG-LU	24 × 24 in	5.7 to 6.7 in	1	150 lb	0.005 lb	60 kg	0.002 kg	121 kg	$3,767.50
102299	CAPP1U-250GG-LU	24 × 24 in	5.9 to 6.4 in	1	300 lb	0.01 lb	150 kg	0.005 kg	121 kg	$3,767.50
102302	CAPP1U-500GG-LU	24 × 24 in	5.7 to 6.7 in	1	600 lb	0.02 lb	300 kg	0.01 kg	121 kg	$3,767.50
102296	CAPP1U-100HH-LU	30 × 30 in	5.71 to 6.71 in	1	150 lb	0.005 lb	60 kg	0.002 kg	187 kg	$4,730.00
102301	CAPP1U-250HH-LU	30 × 30 in	5.71 to 6.71 in	1	300 lb	0.01 lb	150 kg	0.005 kg	187 kg	$4,730.00
102304	CAPP1U-500HH-LU	30 × 30 in	5.71 to 6.71 in	1	600 lb	0.02 lb	300 kg	0.01 kg	187 kg	$4,730.00
102306	CAPP1U-1000HH-LU	30 × 30 in	5.71 to 6.71 in	1	1,500 lb	0.05 lb	600 kg	0.02 kg	187 kg	$4,730.00
Pit Frames										
104313	YEG-HG-PUS	30 × 24 in (HG)								$1,309.00
104315	YPF01KKP-MUS	36 × 36 in (KK)								$1,430.00
Stainless Steel										
102429	CAPS1U-10CC-LU	10 × 10 in	2.6 to 3.4 in	1	15 lb	0.0005 lb	6 kg	0.0002 kg	16 lb	$1,595.00
102430	CAPS1U-20CC-LU	10 × 10 in	2.6 to 3.4 in	1	30 lb	0.001 lb	15 kg	0.0005 kg	16 lb	$1,595.00
102431	CAPS1U-50CC-LU	10 × 10 in	2.6 to 3.4 in	1	60 lb	0.002 lb	30 kg	0.001 kg	16 lb	$1,595.00
102432	CAPS1U-50DD-LU	12 × 12 in	3.3 to 4.4 in	1	60 lb	0.002 lb	30 kg	0.001 kg	24 lb	$1,771.00
102433	CAPS1U-100DD-LU	12 × 12 in	3.5 to 4.4 in	1	150 lb	0.005 lb	60 kg	0.002 kg	24 lb	$1,793.00
102434	CAPS1U-50EE-LU	18 × 18 in	3.5 to 4.4 in	1	60 lb	0.002 lb	30 kg	0.001 kg	62 lb	$2,354.00
102435	CAPS1U-100EE-LU	18 × 18 in	3.5 to 4.4 in	1	150 lb	0.005 lb	60 kg	0.002 kg	62 lb	$2,354.00
102436	CAPS1U-200EE-LU	18 × 18 in	3.5 to 4.4 in	1	200 lb	0.01 lb	100 kg	0.005 kg	62 lb	$2,354.00
102458	CAPS4U-100GG-LU	24 × 24 in	3.4 to 3.6 in	4	150 lb	0.005 lb	60 kg	0.002 kg	121 lb	$7,782.50
102460	CAPS4U-250GG-LU	24 × 24 in	3.4 to 3.6 in	4	300 lb	0.01 lb	150 kg	0.005 kg	121 lb	$7,947.50
102461	CAPS4U-500GG-LU	24 × 24 in	3.4 to 3.6 in	4	600 lb	0.02 lb	300 kg	0.01 kg	121 lb	$7,947.50
102466	CAPS4U-100HH-LU	30 × 30 in	3.4 to 3.6 in	4	150 lb	0.005 lb	60 kg	0.002 kg	187 lb	$8,635.00
102467	CAPS4U-250HH-LU	30 × 30 in	3.4 to 3.6 in	4	300 lb	0.01 lb	150 kg	0.005 kg	187 lb	$8,635.00
102468	CAPS4U-500HH-LU	30 × 30 in	3.4 to 3.6 in	4	600 lb	0.02 lb	300 kg	0.01 kg	187 lb	$8,635.00
102474	CAPS4U-2500NN-LU	48 × 48 in	3.5 in	4	3,000 lb	0.1 lb	1,500 kg	0.05 kg	390 lb	$11,000.00
Pit Frames										
104322	YEG-HH-SUS	30 × 30 in (HH)								$3,437.50
104323	YPF01KKT-MUS	36 × 36 in (KK)								$3,740.00
104324	YPF01NNT-MUS	48 × 48 in (NN)								$4,482.50

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IF Series

Painted Steel Platform Scale



Does not represent standard models (This is the stainless version shown with additional optional features)

Specifications

Cable Length:
6 m (19.7 ft)

Rating/Material:
NEMA Type 4, IP65
Mild steel powder coated

Regulatory Compliance:
HACCP, FDA

Warranty:
Two-year limited, pending evaluation

Standard Features

- Various options for portability utilizing unique MoveLine weighing platform
- Four strain gauge stainless steel load cells ensure precise results
- Resolution: scale intervals of 15,000 d or 30,000 d
- Drive-on ramp included with every platform
- No pit required

Applications

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

Optional Configurations

- T14: Integrated column
- T4: Stop bar
- T15: Second ramp

Part Number/Price

Part #	Minebea Part #	Weighing Surface Dimensions	Platform Height	# Load Cells	Capacity Readability		Capacity Readability		Est. Weight	Price
100970	IFP4-150GG	23.6 × 23.6 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	198 lb	$12,375.00
100973	IFP4-300GG	23.6 × 23.6 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	198 lb	$12,375.00
100974	IFP4-600GG	23.6 × 23.6 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	198 lb	$12,375.00
100975	IFP4-1000GG	23.6 × 23.6 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	198 lb	$12,375.00
100984	IFP4-150IG	31.5 × 23.6 in	25 mm	4	3,30 lb	0.01 lb	150 kg	0.005 kg	221 lb	$12,540.00
100986	IFP4-300IG	31.5 × 23.6 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	221 lb	$12,540.00
100987	IFP4-600IG	31.5 × 23.6 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	221 lb	$12,540.00
100988	IFP4-1000IG	31.5 × 23.6 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	221 lb	$12,540.00
100991	IFP4-150II	31.5 × 31.5 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	243 lb	$12,677.50
100992	IFP4-300II	31.5 × 31.5 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	243 lb	$12,677.50
100993	IFP4-600II	31.5 × 31.5 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	243 lb	$12,677.50
100994	IFP4-1000II	31.5 × 31.5 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	243 lb	$12,677.50
100995	IFP4-1500II	31.5 × 31.5 in	25 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	243 lb	$12,677.50
101005	IFP4-150LG	39.4 × 23.6 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	243 lb	$12,677.50
101006	IFP4-300LG	39.4 × 23.6 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	243 lb	$12,677.50
101007	IFP4-600LG	39.4 × 23.6 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	243 lb	$12,677.50
101008	IFP4-1000LG	39.4 × 23.6 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	243 lb	$12,677.50
101009	IFP4-1500LG	39.4 × 23.6 in	25 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	243 lb	$12,677.50
101010	IFP4-150LI	39.4 × 31.5 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	265 lb	$12,815.00
101011	IFP4-300LI	39.4 × 31.5 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	265 lb	$12,815.00
101012	IFP4-600LI	39.4 × 31.5 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	265 lb	$12,815.00
101013	IFP4-1000LI	39.4 × 31.5 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	265 lb	$12,815.00
101014	IFP4-1500LI	39.4 × 31.5 in	35 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	265 lb	$12,815.00
101015	IFP4-150LL	39.4 × 39.4 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	375 lb	$13,612.50

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Part Number/Price

Part #	Minebea Part #	Weighing Surface Dimensions	Platform Height	# Load Cells	Capacity	Readability	Capacity	Readability	Est. Weight	Price
101016	IFP4-300LL	39.4 × 39.4 in	25 mm	4	660 lb	0.02	300 kg	0.01	375 lb	$13,612.50
101017	IFP4-600LL	39.4 × 39.4 in	25 mm	4	1,320 lb	0.05	600 kg	0.02	375 lb	$13,612.50
101018	IFP4-1000LL	39.4 × 39.4 in	25 mm	4	2,200 lb	0.1	1,000 kg	0.05	375 lb	$13,612.50
101019	IFP4-1500LL	39.4 × 39.4 in	35 mm	4	3,300 lb	0.1	1,500 kg	0.05	376 lb	$13,612.50
101020	IFP4-3000LL	39.4 × 39.4 in	45 mm	4	6,600 lb	0.2	3,000 kg	0.1	376 lb	$13,612.50
101021	IFP4-150NL	49.2 × 39.4 in	25 mm	4	330 lb	0.01	150 kg	0.005	397 lb	$13,860.00
101022	IFP4-300NL	49.2 × 39.4 in	25 mm	4	660 lb	0.02	300 kg	0.01	397 lb	$13,860.00
101023	IFP4-600NL	49.2 × 39.4 in	25 mm	4	1,320 lb	0.05	600 kg	0.02	397 lb	$13,860.00
101024	IFP4-1000NL	49.2 × 39.4 in	25 mm	4	2,200 lb	0.1	1,000 kg	0.05	397 lb	$13,860.00
101025	IFP4-1500NL	49.2 × 39.4 in	35 mm	4	3,300 lb	0.1	1,500 kg	0.05	397 lb	$13,860.00
101026	IFP4-3000NL	49.2 × 39.4 in	45 mm	4	6,600 lb	0.2	3,000 kg	0.1	397 lb	$13,860.00
101027	IFP4-150NN	49.2 × 49.2 in	25 mm	4	330 lb	0.01	150 kg	0.005	481 lb	$14,382.50
101028	IFP4-300NN	49.2 × 49.2 in	25 mm	4	660 lb	0.02	300 kg	0.01	481 lb	$14,382.50
101029	IFP4-600NN	49.2 × 49.2 in	35 mm	4	1,320 lb	0.05	600 kg	0.02	481 lb	$14,382.50
101030	IFP4-1000NN	49.2 × 49.2 in	35 mm	4	2,200 lb	0.1	1,000 kg	0.05	481 lb	$14,382.50
101031	IFP4-1500NN	49.2 × 49.2 in	35 mm	4	3,300 lb	0.1	1,500 kg	0.05	481 lb	$14,382.50
101032	IFP4-3000NN	49.2 × 49.2 in	45 mm	4	6,600 lb	0.2	3,000 kg	0.1	481 lb	$14,382.50
101033	IFP4-150RN	59.1 × 49.2 in	25 mm	4	330 lb	0.01	150 kg	0.005	547 lb	$15,097.50
101034	IFP4-300RN	59.1 × 49.2 in	25 mm	4	660 lb	0.02	300 kg	0.01	547 lb	$15,097.50
101035	IFP4-600RN	59.1 × 49.2 in	35 mm	4	1,320 lb	0.05	600 kg	0.02	547 lb	$15,097.50
101036	IFP4-1000RN	59.1 × 49.2 in	35 mm	4	2,200 lb	0.1	1,000 kg	0.05	547 lb	$15,097.50
101037	IFP4-1500RN	59.1 × 49.2 in	35 mm	4	3,300 lb	0.1	1,500 kg	0.05	547 lb	$15,097.50
101038	IFP4-3000RN	59.1 × 49.2 in	45 mm	4	6,600 lb	0.2	3,000 kg	0.1	547 lb	$15,097.50
101039	IFP4-150RR	59.1 × 59.1 in	35 mm	4	330 lb	0.01	150 kg	0.005	628 lb	$15,895.00
101040	IFP4-300RR	59.1 × 59.1 in	35 mm	4	660 lb	0.02	300 kg	0.01	628 lb	$15,895.00
101041	IFP4-600RR	59.1 × 59.1 in	35 mm	4	1,320 lb	0.05	600 kg	0.02	628 lb	$15,895.00
101042	IFP4-1000RR	59.1 × 59.1 in	45 mm	4	2,200 lb	0.1	1,000 kg	0.05	628 lb	$15,895.00
101043	IFP4-1500RR	59.1 × 59.1 in	45 mm	4	3,300 lb	0.1	1,500 kg	0.05	628 lb	$15,895.00
101044	IFP4-3000RR	59.1 × 59.1 in	45 mm	4	6,600 lb	0.2	3,000 kg	0.1	628 lb	$15,895.00
101045	IFP4-150WR	78.7 × 59.1 in	35 mm	4	330 lb	0.01	150 kg	0.005	739 lb	$16,390.00
101046	IFP4-300WR	78.7 × 59.1 in	35 mm	4	660 lb	0.02	300 kg	0.01	739 lb	$16,390.00
101047	IFP4-600WR	78.7 × 59.1 in	35 mm	4	1,320 lb	0.05	600 kg	0.02	739 lb	$16,390.00
101048	IFP4-1000WR	78.7 × 59.1 in	45 mm	4	2,200 lb	0.1	1,000 kg	0.05	739 lb	$16,390.00
101049	IFP4-1500WR	78.7 × 59.1 in	45 mm	4	3,300 lb	0.1	1,500 kg	0.05	739 lb	$16,390.00
101050	IFP4-3000WR	78.7 × 59.1 in	45 mm	4	6,600 lb	0.2	3,000 kg	0.1	739 lb	$16,390.00

Options/Accessories

Part #	Description	Price
T4	Stop bar	Consult
T5	Tow bar	Consult
T6	Two handles and two rollers	Consult
T7	Retractable wheels (not available with the GG and IG models)	Consult
T9	Bottom plate	Consult
L6	IP69K kit	Consult
T13	Four handles	Consult
T14	Integrated column	Consult
T15	2nd ramp	Consult
Consult	Pressure lift (not available for 30,000d models)	Consult

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IF Series

Stainless Steel Platform Scale



Does not represent standard models (Shown with additional optional features)

Applications

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

Specifications

Load Cells:
Four hermetically sealed IP68

Regulatory Compliance:
HACCP, FDA, Class 10,000 clean rooms (US Federal Standard 209D)

IP Rating:
IP68

Cable Length:
6 m (19.7 ft)

Warranty:
Two-year limited, pending evaluation

Standard Features

- Capacities from 330 to 6,614 lb with resolutions up to 30,000 d
- Various portability options utilizing the unique MoveLine weighing platform
- Ultra low profile: standard platform height
- Material/surface finish: 304 bead-blasted stainless steel
- Drive-on ramp included with every platform
- No pit required
- Convenient for application-oriented weighing systems from processing to the chemical industry
- All units built for easy cleaning and disinfection to meet HACCP and FDA requirements for the food/pharmaceutical industries

Optional Configurations

- L6: IP69K kit
- T4: Stop bar
- T9: Bottom plate
- T5: Towing bar
- T6: Two handles, two rollers
- T13: Four handles
- T14: Integrated column
- T15: 2nd ramp
- R2: 316, T1, 2B cold-rolled steel, electropolished stainless steel
- R6: 304, 2B cold-rolled steel, electropolished stainless steel
- Pressure lift (not available for 30,000 d models)

Note: Consult factory for lifting device options and compatibility of combined options

Part Number/Price

Part #	Minebea Part #	Weighing Surface Dimensions	Platform Height	# Load Cells	Capacity Readability		Capacity Readability		Est. Weight	Price
101266	IFS4-150GG	23.6 × 23.6 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	198 lb	$18,727.50
101267	IFS4-300GG	23.6 × 23.6 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	198 lb	$18,727.50
101268	IFS4-600GG	23.6 × 23.6 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	198 lb	$18,727.50
101269	IFS4-1000GG	23.6 × 23.6 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	198 lb	$18,727.50
101270	IFS4-150IG	31.5 × 23.6 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	221 lb	$19,030.00
101274	IFS4-300IG	31.5 × 23.6 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	221 lb	$19,030.00
101275	IFS4-600IG	31.5 × 23.6 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	221 lb	$19,030.00
101279	IFS4-1000IG	31.5 × 23.6 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	221 lb	$19,030.00
101281	IFS4-150II	31.5 × 31.5 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	243 lb	$19,360.00
101282	IFS4-300II	31.5 × 31.5 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	243 lb	$19,360.00
101283	IFS4-600II	31.5 × 31.5 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	243 lb	$19,360.00
101284	IFS4-1000II	31.5 × 31.5 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	243 lb	$19,360.00
101285	IFS4-1500II	31.5 × 31.5 in	25 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	243 lb	$19,360.00
101286	IFS4-150LG	39.4 × 23.6 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	243 lb	$19,992.50
101287	IFS4-300LG	39.4 × 23.6 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	243 lb	$19,992.50
101288	IFS4-600LG	39.4 × 23.6 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	243 lb	$19,992.50
101289	IFS4-1000LG	39.4 × 23.6 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	243 lb	$19,992.50
101290	IFS4-1500LG	39.4 × 23.6 in	25 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	243 lb	$19,992.50
101291	IFS4-150LI	39.4 × 31.5 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	265 lb	$20,680.00
101293	IFS4-300LI	39.4 × 31.5 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	265 lb	$20,680.00
101294	IFS4-600LI	39.4 × 31.5 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	265 lb	$20,680.00
101295	IFS4-1000LI	39.4 × 31.5 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	265 lb	$20,680.00
101296	IFS4-1500LI	39.4 × 31.5 in	35 mm	4	3300 lb	0.1 lb	1,500 kg	0.05 kg	265 lb	$20,680.00
101304	IFS4-150LL	39.4 × 39.4 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	375 lb	$21,642.50
101305	IFS4-300LL	39.4 × 39.4 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	375 lb	$21,642.50
101306	IFS4-600LL	39.4 × 39.4 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	375 lb	$21,642.50

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Part Number/Price

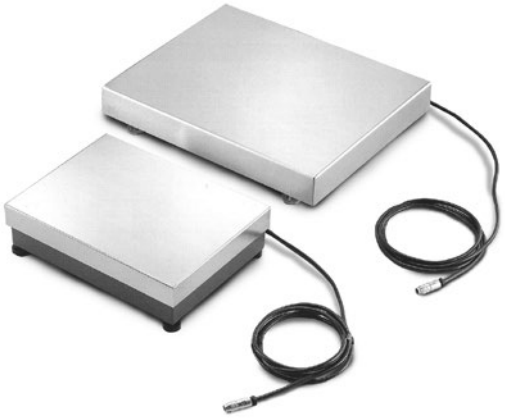
Part #	Minebea Part #	Weighing Surface Dimensions	Platform Height	# Load Cells	Capacity Readability		Capacity Readability		Est. Weight	Price
101307	IFS4-1000LL	39.4 × 39.4 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	375 lb	$21,642.50
101308	IFS4-1500LL	39.4 × 39.4 in	35 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	375 lb	$21,642.50
101309	IFS4-3000LL	39.4 × 39.4 in	45 mm	4	6,600 lb	0.2 lb	3,000 kg	0.1 kg	375 lb	$21,642.50
101310	IFS4-150NL	49.2 × 39.4 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	397 lb	$22,495.00
101311	IFS4-300NL	49.2 × 39.4 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	397 lb	$22,495.00
101312	IFS4-600NL	49.2 × 39.4 in	25 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	397 lb	$22,495.00
101313	IFS4-1000NL	49.2 × 39.4 in	25 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	397 lb	$22,495.00
101314	IFS4-1500NL	49.2 × 39.4 in	35 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	397 lb	$22,495.00
101315	IFS4-3000NL	49.2 × 39.4 in	45 mm	4	6,600 lb	0.2 lb	3,000 kg	0.1 kg	397 lb	$22,495.00
101317	IFS4-150NN	49.2 × 49.2 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	481 lb	$23,457.50
101318	IFS4-300NN	49.2 × 49.2 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	481 lb	$23,457.50
101319	IFS4-600NN	49.2 × 49.2 in	35 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	481 lb	$23,457.50
101320	IFS4-1000NN	49.2 × 49.2 in	35 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	481 lb	$23,457.50
101321	IFS4-1500NN	49.2 × 49.2 in	35 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	481 lb	$23,457.50
101322	IFS4-3000NN	49.2 × 49.2 in	45 mm	4	6,600 lb	0.2 lb	3,000 kg	0.1 kg	481 lb	$23,457.50
101323	IFS4-150RN	59.1 × 49.2 in	25 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	547 lb	$24,365.00
101324	IFS4-300RN	59.1 × 49.2 in	25 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	547 lb	$24,365.00
101325	IFS4-600RN	59.1 × 49.2 in	35 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	547 lb	$24,365.00
101326	IFS4-1000RN	59.1 × 49.2 in	35 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	547 lb	$24,365.00
101327	IFS4-1500RN	59.1 × 49.2 in	35 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	547 lb	$24,365.00
101328	IFS4-3000RN	59.1 × 49.2 in	45 mm	4	6,600 lb	0.2 lb	3,000 kg	0.1 kg	628 lb	$24,365.00
101329	IFS4-150RR	59.1 × 59.1 in	35 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	628 lb	$25,300.00
101330	IFS4-300RR	59.1 × 59.1 in	35 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	628 lb	$25,300.00
101331	IFS4-600RR	59.1 × 59.1 in	35 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	628 lb	$25,300.00
101332	IFS4-1000RR	59.1 × 59.1 in	45 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	628 lb	$25,300.00
101333	IFS4-1500RR	59.1 × 59.1 in	45 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	628 lb	$25,300.00
101334	IFS4-3000RR	59.1 × 59.1 in	45 mm	4	6,600 lb	0.2 lb	3,000 kg	0.1 kg	739 lb	$25,300.00
101335	IFS4-150WR	78.7 × 59.1 in	35 mm	4	330 lb	0.01 lb	150 kg	0.005 kg	739 lb	$26,207.50
101337	IFS4-300WR	78.7 × 59.1 in	35 mm	4	660 lb	0.02 lb	300 kg	0.01 kg	739 lb	$26,207.50
101338	IFS4-600WR	78.7 × 59.1 in	35 mm	4	1,320 lb	0.05 lb	600 kg	0.02 kg	739 lb	$26,207.50
101339	IFS4-1000WR	78.7 × 59.1 in	45 mm	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	739 lb	$26,207.50
101340	IFS4-1500WR	78.7 × 59.1 in	45 mm	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	739 lb	$26,207.50
101341	IFS4-3000WR	78.7 × 59.1 in	45 mm	4	6,600 lb	0.2 lb	3,000 kg	0.1 kg	739 lb	$26,207.50

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MINEBEA INTEC

IS Series

Industrial Scale Weighing Platform (not intrinsically safe)



Standard Features

- RS-485 interface is X-bus compatible
- IS platform calibrates and adjusts itself automatically using a built-in calibration weight with ISO TEST key
- High internal resolution guarantees reliable weight readouts
- Weighing results: up to 50 times/second
- All scales come standard with stainless steel load plate (wraparound design optional)
- Internal calibration (ISEDE and ISIGG models only)
- Optional RS-232C interface available

Specifications

Power Requirements:
10.6 VDC to 30 VDC supplied by external power Supply, battery pack or Combics IS indicator

Indicator Connectivity:
Combics UV1

Models Sensing:
Force motor cell

Stability:
Weight stabilizes 1.5 second

Weighing Design:
Electro magnetic

Indicators Options:
Combics UVI models

Construction:
Stainless steel platforms
Die-cast or galvanized base construction (model dependent)

IP Rating:
BBP/DCS: IP54
EDE: IP65
IGG: IP67

Cable Length:
6 m (20 ft)

Warranty:
Two-year limited, pending evaluation

Part Number/Price

Part #	Minebea Part #	Platform Size	# Load Cells	Capacity Readability		Capacity Readability		Est. Weight	Price
174127	ISBBP-06-H	Ø 4.5 in	1	1.6 lb	0.00002 lb	0.62 kg	0.001 g	19 lb	$4,922.50
174128	ISBBP-3-H	7.1 × 7.1 in	1	6.8 lb	0.00002 lb	3.1 kg	0.01 g	19 lb	$4,015.00
174129	ISBBP-6-H	7.1 × 7.1 in	1	13.7 lb	0.00002 lb	6.2 kg	0.01 g	19 lb	$5,170.00
102003	ISDCS-16-H	15.8 × 11.8 in	1	35 lb	0.0002 lb	16 kg	0.1 g	41 lb	$7,012.50
102004	ISDCS-35-H	15.8 × 11.8 in	1	75 lb	0.0002 lb	34 kg	0.1 g	41 lb	$8,415.00
102005	ISEDE-64-SV1	15.8 × 11.8 in	1	141 lb	0.002 lb	64 kg	1 g	41 lb	$7,727.50
102006	ISEDE-64-HV1	15.8 × 11.8 in	1	141 lb	0.0002 lb	64 kg	0.1 g	41 lb	$10,615.00
102008	ISIGG-150-HV1	32 × 24 in	1	330 lb	0.002 lb	150 kg	1 g	185 lb	$11,027.50
102009	ISIGG-300-HV1	32 × 24 in	1	660 lb	0.005 lb	300 kg	2 g	185 lb	$11,302.50
Special Order									
102012	ISIGG-150-DS1	32 × 24 in	1	330 lb	0.0002 lb	150 kg	0.1 g	185 lb	$11,825.00
102013	ISIGG-300-DS1	32 × 24 in	1	660 lb	0.0005 lb	300 kg	0.2 g	185 lb	$13,007.50

Options/Accessories

Part #	Minebea Part #	Description	Price
Consult	-	Interface mode (RS-485/422) required with Combics II indicators	Consult
Consult	-	DC power supply to weigh platform	Consult
Consult	YCC05_001M5	Cable, 25-pin to 9-pin D sub, cable for PC	Consult

Indicators

Part #	Minebea Part #	Description	Price
115668	CAISL1-UV1	Combics 1 indicator for IS base, IP44	$2,266.00
115670	CAISL2-UV1	Combics 2 indicator for IS base, IP44	$2,629.00
Consult	CAISL3-UV1	Combics 3 indicator for IS base, IP44	$2,121.00
115671	CAIS1-UV1	Combics 1 indicator for IS base, IP69K	$2,607.00
115673	CAIS2-UV1	Combics 2 indicator for IS base, IP69K	$3,107.50
115674	CAIS3-UV1	Combics 3 indicator for IS base,IP69K	$3,712.50

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Signum® EX Supreme

Exposion-proof Bench Scale



Approvals

Part Number/Price

Part #	Minebea Part #	Description	Platform Dimensions	Price
Painted				
155866	SIWXSBBP-3-06-H	1.3 × 0.000002 lb (0.62 kg × 0.001 g)	Ø 5 in	$8,250.00
155867	SIWXSBBP-3-3-H	6.8 × 0.00002 lb (3.1 kg × 0.01 g)	7.1 × 7.1 in	$5,885.00
155868	SIWXSBBP-3-6-H	13.5 × 0.00002 lb (6.1 kg × 0.01 g)	7.1 × 7.1 in	$7,205.00
155870	SIWXSDCP-3-35-H	75 × 0.0002 lb (35 kg × 0.1 g)	13.7 × 9.7 in	$7,782.50
Stainless				
155871	SIWXSBBS-3-3-H	6.8 × 0.00002 lb (3.1 kg × 0.01 g)	7.1 × 7.1 in	$8,855.00
155872	SIWXSBBS-3-6-H	13.5 × 0.0002 lb (6.1 kg × 0.01 g)	7.1 × 7.1 in	$9,845.00
155873	SIWXSDCS-3-35-H	75 × 0.0002 lb (35 kg × 0.1 g)	13.7 × 9.7 in	$9,432.50

Options/Accessories

Part #	Minebea Part #	Description	Price
46518	YPS02-XUR	Hazardous area power supply - (FM approved for use in the USA) (8 ft. of intrinsic cable and 8 ft. of cable requiring hard wiring by licensed electrician)	$2,942.50
103066	YPS02-XKR	Hazardous area power supply - (CSA approved for use in Canada) (8 ft. of intrinsic cable and 8 ft. of cable requiring hard wiring by a licensed electrician)	$2,942.50
46517	YPS02-ZKR	Safe area power supply (3 ft to wall plug and 65 ft of intrinsically safe cable to the scale)	$1,991.00
103055	YDI05-ZU2	Zener barrier hazardous area RS-232 to RS-232 converter, 14-pin plug	$1,441.00
103059	YDI05-ZU3	Zener barrier hazardous area RS-422 to RS-232 (requires 6971413, RL 50232, power supply) cable connection not included	$1,375.00
153218	YDH01P	Column for DCP platforms, height 19 in, painted	$803.00
155884	YDH02P	Column for BBP platforms, height 15.75 in, painted	$858.00
Consult	YDH01CWSUS	Column for DCS platform, height 13 in, stainless steel	Consult
Consult	YDH02CWSUS	Column for DCS platform, height 19.6 in, stainless steel	Consult
Consult	YDH03CWSUS	Column for DCS platform, height 25.5 in, stainless steel	Consult
Consult	YDH02S	Column for BBS platform, height 15.75 in, stainless steel	Consult
103068	YRB02-X	Rechargeable battery (requires 103069 battery charger)	$2,354.00
103069	YRB02-LD	Battery charger (requires power cord)	$544.50
103057	YCC422-X	Cable without connectors for RS-422	$22.00/ft
102078	6971954	Power cord	$31.90

Standard Features

- Monolithic weighing system
- Resolution up to 620,000 d
- Stainless steel weighing pan
- Requires YPS02-XUR (RL # 46518), US hazardous area or YPS02-ZKR (RL# 46517) safe area connection

Specifications

Power Supply Safe Area:
ATEX: YPSC01-Z
FM/CSA: YPS02-ZKR (PN 46517)

Power Supply Hazardous Area:
ATEX: YPSC01-X

Battery Operatio n:
Via external battery YRB02-X (103068) Charger PN 103069

Supply Voltage:
Via external power supply, connection via 14-Pin round socket (20 cm cable)

Net Weight/Gross Weight:
SIWXSBBP, SIWXSBBS: 19.8/23.8 lb (9.0/10.8 kg)
SIWXSDCP, SIWXSDCS: 33/39.6 lb (15.0/18.0 kg)

Data Interfaces:
RS-232
Can be switched to RS-485 or RS-422 connection via 14-Pin round socket

Temperature:
Operating:
SIWXSBBP, SIWXSBBS:
50 °F to 104 °F (10 °C to 40 °C)
SIWXSDCP, SIWXSDCS:
14 °F to 104 °F (-10 °C to 40 °C)

Packaging Dimensions:
(L × W × H)
SIWXSBBP, SIWXSBBS:
22.4 × 15.7 × 14.5 in
(570 × 400 × 370 mm)
SIWXSDCP, SIWXSDCS:
20 × 17.3 × 16.1 in
(510 × 440 × 410 mm)

Material:
SIWSXBBP, SIWXSDCP:
Stainless steel display unit, painted platform with stainless steel load plate
SIWXSBBS, SIWXSDCS:
Brushed stainless steel

IP Rating:
IP65
IP44 Zone 1 ONLY: SIWXSBBP, SIWXSBBS 1.3 lb (0.6 kg)

Cable Length:
2 m (6.6 ft) between display unit and platform

Warranty:
Two-year limited, pending evaluation

Approvals:
FM Class I, II, III; Div. 1; Groups ABCDEFG and T4
IECEX/ATEX Zone 1/2/21/22

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MINEBEA INTEC

Combics® 2 Ex

Explosion-proof Digital Weight Indicator



Approvals

Standard Features

- Amber backlit LCD dot matrix display
- Three-way unit toggle; 10x higher resolution toggle
- Two header line storage
- Battery charge status display (with connection of battery pack)
- Numeric keypad with two IDs for entering identifier codes and preset tare
- Date/time fully integrated
- GMP printable record
- Three built-in LED checkweighing lights
- Bar graph weighing range indicator
- Application data and totalization memory stored in battery-backed RAM
- Requires power supply
- Power supply can be provided by 110 to 220 VAC connections, 24 VDC industrial power module (each suitable for hazardous and safe areas) and a rechargeable battery pack in stainless steel casing

Applications

- Pre-installed software for counting, checkweighing, differential weighing, percentage weighing, gross-net-tare, sorting, net-total, animal weighing
- Weighbridge connectivity: maximum two precision weighing platforms or load cells, and one precision platform or 1 Combics Ex and one precision platform

Specifications

Power Requirements:
110 to 220 VAC and 24 VDC

Excitation Voltage:
6 V

Load Cell Connection:
Four- or six-wire

Annunciators:
Gross/Net toggle

Keys/Buttons:
On/Off, Zero, Tare, Print/Data

Dimensions:
(L × W × H)
11.9 × 7.4 × 3.5 in
(302 × 188 × 90 mm)

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Rating/Material:
NEMA Type 4X, IP69K
304 stainless steel

Warranty:
Two-year limited, pending evaluation

Approvals:
NTEP 19-055
FM Class 1,2,3, Division 1, Groups ABCDEFG and temperature class T4

Part Number/Price

Part #	Minebea Part #	Description	Est. Weight	Price
158644	CAIXS2-U	Indicator, CAIXS2-U IP69K protection rated	7 lb	$3,300.00
197168	CAIXS2-UA19M26	Indicator, CAIXS2 EX IS-X	7 lb	$3,905.00

Options/Accessories

Part #	Minebea Part #	Description	Price
46518	YPS02-XUR	Power supply, hazardous area, United States	$2,942.50
46517	YPS02-ZKR	Power supply, safe area, 65 ft cable	$1,991.00
103068	YRB02-X	Battery pack, 30+ hours (requires 103069)	$2,354.00
103069	YRB02-LD	Charger for battery pack	$544.50
103054	YCC02-XR14F02	Quick disconnect cable, for Zener barrier	$379.50
155882	YDI05-ZU1	Zener barrier	$1,408.00
155918	A19	485 interface (IS-X Base)	$687.50
155919	M26	Cable to IS-X	$379.50
105607	YDH02CISUS	Wall mount bracket	$143.00
156440	YDH01CWSUS	Post mount assembly for 10 × 10 in platforms, 13 in high	$390.50
156441	YDH02CWSUS	Post mount assembly for 12 × 12 in platforms, 19 in high	$401.50
156442	YDH03CWSUS	Post mount assembly for 18 × 18 in platforms, 29 in high	$473.00

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**GLP/GMP requires use of Combics 1 Plus or higher digital weight indicator*

Specifications

Indicator Option:
CIXS3-U

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Rating/Materials:
NEMA Type 4, IP67
Load cells IP68, hermetically sealed

Cable Length:
Up to 30 × 30: 10 ft
36 × 36 and over: 20 ft

Warranty:
Two-year limited, pending evaluation

Approvals:
FM approved Classes 1,2,3, Division 1, Groups ABCDEGFT4, US and Canadian hazardous areas, when used with CISX3-U or FCT01-X indicator

PRECISION INDUSTRIAL WEIGHING

Approvals

FM APPROVED

Standard Features

- Can be used in areas where explosive gas and dust mixtures occur
- Documentation to verify intrinsic safety available upon request
- Built for easy cleaning and disinfection
- Meets HACCP and FDA requirements for the food industry
- Pit frames for flush mounting available
- High resolution of 30,000 d

Applications

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing
- Regulatory Compliance: NEMA, HACCP, FDA, GLP/GMP*, FM

**GLP/GMP requires use of Combics 1 Plus or higher digital weight indicator*

Part Number/Price

Part #	Minebea Part #	Dimensions	Height Adjustment	# Load Cells	Capacity Readability		Capacity Readability		Est. Weight	Price
100919	CAPXS1U-10CC	10 × 10 in	2.37 in	1	15 lb	0.0005 lb	6 kg	0.0002 kg	16 lb	$1,771.00
100920	CAPXS1U-20CC	10 × 10 in	2.37 in	1	30 lb	0.001 lb	15 kg	0.0005 kg	16 lb	$1,771.00
100921	CAPXS1U-50CC	10 × 10 in	2.37 in	1	60 lb	0.002 lb	30 kg	0.001 kg	16 lb	$1,771.00
100922	CAPXS1U-50DD	12 × 12 in	3.87 in	1	60 lb	0.002 lb	30 kg	0.001 kg	24 lb	$1,892.00
100923	CAPXS1U-100DD	12 × 12 in	3.87 in	1	150 lb	0.005 lb	60 kg	0.002 kg	24 lb	$1,892.00
100924	CAPXS1U-50EE	18 × 18 in	3.5 in	1	60 lb	0.002 lb	30 kg	0.001 kg	62 lb	$2,475.00
100925	CAPXS1U-100EE	18 × 18 in	3.5 in	1	150 lb	0.005 lb	60 kg	0.002 kg	62 lb	$2,475.00
100926	CAPXS1U-200EE	18 × 18 in	3.5 in	1	200 lb	0.01 lb	100 kg	0.005 kg	62 lb	$2,475.00
100934	CAPXS4U-250GG	24 × 24 in	3.31 in	4	300 lb	0.01 lb	150 kg	0.005 kg	12 lb	$7,782.50
100935	CAPXS4U-500GG	24 × 24 in	3.31 in	4	600 lb	0.02 lb	300 kg	0.01 kg	12 lb	$7,782.50
100943	CAPXS4U-500HH	30 × 30 in	3.31 in	4	600 lb	0.02 lb	300 kg	0.01 kg	187 lb	$8,497.50
100944	CAPXS4U-1000HH	30 × 30 in	3.31 in	4	1,500 lb	0.05 lb	600 kg	0.02 kg	187 lb	$8,497.50
100945	CAPXS4U-1000KK	36 × 36 in	3.75 in	4	1,500 lb	0.05 lb	600 kg	0.02 kg	250 lb	$10,367.50
100946	CAPXS4U-2500KK	36 × 36 in	3.75 in	4	3,000 lb	0.1 lb	1,500 kg	0.05 kg	250 lb	$10,367.50
100947	CAPXS4U-5000KK	36 × 36 in	3.75 in	4	6,000 lb	0.2 lb	3,000 kg	0.1 kg	250 lb	$10,367.50
100949	CAPXS4U-2500NN	48 × 48 in	3.75 in	4	3,000 lb	0.1 lb	1,500 kg	0.05 kg	390 lb	$12,952.50
100950	CAPXS4U-5000NN	48 × 48 in	3.75 in	4	6,000 lb	0.2 lb	3,000 kg	0.1 kg	390 lb	$12,952.50

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IF Series

Explosion-proof Platform Scales



Shown with additional optional features

Approvals

FM APPROVED

Standard Features

- Capacities from 150 to 3,000 kg (330 to 6,613 lb) with resolutions up to 30,000 d
- Drive-on ramp included with every platform
- No pit required
- Convenient for application-oriented weighing systems from processing to the chemical industry

Optional Configurations

- Electro-polished finish
- AISI 304 electro-polished stainless steel platform
- AISI 316Ti electro-polished stainless steel platform
- Ingenious manually-operated lifting mechanism option (patented system) for effortless raising of the platform to facilitate cleaning underneath.
- R2: Cold rolled AISI 316Ti stainless steel, electro-polished
- R6: AISI 304 2b stainless steel, electro-polished
- T4: Stop bar
- T5: Tow bar and stop bar
- T6: Two handles and two rollers
- T7: Retractable wheels (reduces effective resolution to 15,000 dd)
- T9: Additional bottom plate
- T15: Second ramp
- T14: Integrated column
- T13: Four handles

Applications

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

Specifications

Rating/Material:
AISI
304 bead-blasted stainless steel
Load cells IP68, hermetically sealed

Cable Length:
19.7 ft (6 m)

Regulatory Compliance:
NEMA, HACCP, FDA, GLP/GMP*, Class 10,000 clean rooms (US Federal Standard 209D) (equivalent to Class C in accordance with EEC-GWP), FM
*GLP/GMP requires use of Combics 1 Plus or higher digital weight indicator

Warranty:
Two-year limited, pending evaluation

Approvals:
FM approved, IFXS4 series, are certified for use in Class 1,2,3, Div. 1, Groups ABCDEFT4 (Verification of Intrinsic Safety included also covers any explosion protected Minebea components combined with this platform series)



Part Number/Price

Part #	Minebea Part #	Weighing Surface Dimensions	# Load Cells	Capacity Readability		Capacity Readability		Est. Weight	Price
102530	IFXS4-150GG	23.6 × 23.6 in	4	330 lb	0.01 lb	150 kg	0.005 kg	198 lb	$18,177.50
102531	IFXS4-300GG	23.6 × 23.6 in	4	660 lb	0.02 lb	300 kg	0.01 kg	198 lb	$18,177.50
102532	IFXS4-600GG	23.6 × 23.6 in	4	1,320 lb	0.05 lb	600 kg	0.02 kg	198 lb	$18,177.50
102533	IFXS4-1000GG	23.6 × 23.6 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	198 lb	$18,177.50
102534	IFXS4-150IG	31.5 × 23.6 in	4	330 lb	0.01 lb	150 kg	0.005 kg	221 lb	$18,507.50
102536	IFXS4-300IG	31.5 × 23.6 in	4	660 lb	0.02 lb	300 kg	0.01 kg	221 lb	$18,507.50
102537	IFXS4-600IG	31.5 × 23.6 in	4	1,320 lb	0.05 lb	600 kg	0.02 kg	221 lb	$18,507.50
102538	IFXS4-1000IG	31.5 × 23.6 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	221 lb	$18,507.50
102540	IFXS4-150II	31.5 × 31.5 in	4	330 lb	0.01 lb	150 kg	0.005 kg	243 lb	$18,810.00
102541	IFXS4-300II	31.5 × 31.5 in	4	660 lb	0.02 lb	300 kg	0.01 kg	243 lb	$18,810.00
102542	IFXS4-600II	31.5 × 31.5 in	4	1,320 lb	0.05 lb	600 kg	0.02 kg	243 lb	$18,810.00
102543	IFXS4-1000II	31.5 × 31.5 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	243 lb	$18,810.00
102544	IFXS4-1500II	31.5 × 31.5 in	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	243 lb	$18,810.00
102545	IFXS4-150LG	39.4 × 23.6 in	4	330 lb	0.01 lb	150 kg	0.005 kg	243 lb	$19,442.50
102546	IFXS4-300LG	39.4 × 23.6 in	4	660 lb	0.02 lb	300 kg	0.01 kg	243 lb	$19,442.50
102547	IFXS4-600LG	39.4 × 23.6 in	4	1320 lb	0.05 lb	600 kg	0.02 kg	243 lb	$19,442.50
102548	IFXS4-1000LG	39.4 × 23.6 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	243 lb	$19,442.50
102549	IFXS4-1500LG	39.4 × 23.6 in	4	3,300 lb	0.1 lb	1,500 kg	0.05 kg	243 lb	$19,442.50
102550	IFXS4-150LI	39.4 × 31.5 in	4	330 lb	0.01 lb	150 kg	0.005 kg	265 lb	$20,102.50
102551	IFXS4-300LI	39.4 × 31.5 in	4	660 lb	0.02 lb	300 kg	0.01 kg	265 lb	$20,102.50
102552	IFXS4-600LI	39.4 × 31.5 in	4	1,320 lb	0.05 lb	600 kg	0.02 kg	265 lb	$20,102.50
102553	IFXS4-1000LI	39.4 × 31.5 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	265 lb	$20,102.50

Rails add 16.1 in to width

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Part Number/Price

Part #	Minebea Part #	Weighing Surface Dimensions	# Load Cells	Capacity Readability		Capacity Readability		Est. Weight	Price
102554	IFXS4-1500LI	39.4 × 31.5 in	4	3,330 lb	0.1 lb	1,500 kg	0.05 kg	265 lb	$20,102.50
102555	IFXS4-150LL	39.4 × 39.4 in	4	330 lb	0.01 lb	150 kg	0.005 kg	375 lb	$21,037.50
102556	IFXS4-300LL	39.4 × 39.4 in	4	660 lb	0.02 lb	300 kg	0.01 kg	375 lb	$21,037.50
102557	IFXS4-600LL	39.4 × 39.4 in	4	1,320 lb	0.05 lb	600 kg	0.02 kg	375 lb	$21,037.50
102558	IFXS4-1000LL	39.4 × 39.4 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	375 lb	$21,037.50
102559	IFXS4-1500LL	39.4 × 39.4 in	4	3,330 lb	0.1 lb	1,500 kg	0.05 kg	375 lb	$21,037.50
102560	IFXS4-3000LL	39.4 × 39.4 in	4	6,660 lb	0.2 lb	3,000 kg	0.1 kg	375 lb	$21,037.50
102561	IFXS4-150NL	49.2 × 39.4 in	4	330 lb	0.01 lb	150 kg	0.005 kg	397 lb	$21,862.50
102562	IFXS4-300NL	49.2 × 39.4 in	4	660 lb	0.02 lb	300 kg	0.01 kg	397 lb	$21,862.50
102563	IFXS4-600NL	49.2 × 39.4 in	4	1,320 lb	0.05 lb	600 kg	0.02 kg	397 lb	$21,862.50
102564	IFXS4-1000NL	49.2 × 39.4 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	397 lb	$21,862.50
102565	IFXS4-1500NL	49.2 × 39.4 in	4	3,330 lb	0.1 lb	1,500 kg	0.05 kg	397 lb	$21,862.50
102566	IFXS4-3000NL	49.2 × 39.4 in	4	6,660 lb	0.2 lb	3,000 kg	0.1 kg	397 lb	$21,862.50
102567	IFXS4-150NN	49.2 × 49.2 in	4	330 lb	0.01 lb	150 kg	0.005 kg	481 lb	$22,797.50
102568	IFXS4-300NN	49.2 × 49.2 in	4	660 lb	0.02 lb	300 kg	0.01 kg	481 lb	$22,797.50
102569	IFXS4-600NN	49.2 × 49.2 in	4	1,320 lb	0.05 lb	600 kg	0.02 kg	481 lb	$22,797.50
102570	IFXS4-1000NN	49.2 × 49.2 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	481 lb	$22,797.50
102571	IFXS4-1500NN	49.2 × 49.2 in	4	3,330 lb	0.1 lb	1,500 kg	0.05 kg	481 lb	$22,797.50
102572	IFXS4-3000NN	49.2 × 49.2 in	4	6,660 lb	0.2 lb	3,000 kg	0.1 kg	481 lb	$22,797.50
102573	IFXS4-150RN	59.1 × 49.2 in	4	330 lb	0.01 lb	150 kg	0.005 kg	547 lb	$23,677.50
102574	IFXS4-300RN	59.1 × 49.2 in	4	660 lb	0.02 lb	300 kg	0.01 kg	547 lb	$23,677.50
102575	IFXS4-600RN	59.1 × 49.2 in	4	1,320 lb	0.05 lb	600 kg	0.02 kg	547 lb	$23,677.50
102576	IFXS4-1000RN	59.1 × 49.2 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	547 lb	$23,677.50
102577	IFXS4-1500RN	59.1 × 49.2 in	4	3,330 lb	0.1 lb	1,500 kg	0.05 kg	547 lb	$23,677.50
102578	IFXS4-3000RN	59.1 × 49.2 in	4	6,660 lb	0.2 lb	3,000 kg	0.1 kg	547 lb	$23,677.50
102579	IFXS4-150RR	59.1 × 59.1 in	4	330 lb	0.01 lb	150 kg	0.005 kg	628 lb	$24,557.50
102580	IFXS4-300RR	59.1 × 59.1 in	4	660 lb	0.02 lb	300 kg	0.01 kg	628 lb	$24,557.50
102581	IFXS4-600RR	59.1 × 59.1 in	4	1,320 lb	0.05 lb	600 kg	0.02 kg	628 lb	$24,557.50
102582	IFXS4-1000RR	59.1 × 59.1 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	628 lb	$24,557.50
102583	IFXS4-1500RR	59.1 × 59.1 in	4	3,330 lb	0.1 lb	1,500 kg	0.05 kg	628 lb	$24,557.50
102584	IFXS4-3000RR	59.1 × 59.1 in	4	6,660 lb	0.2 lb	3,000 kg	0.1 kg	628 lb	$24,557.50
102585	IFXS4-150WR	78.7 × 59.1 in	4	330 lb	0.01 lb	150 kg	0.005 kg	739 lb	$25,465.00
102586	IFXS4-300WR	78.7 × 59.1 in	4	660 lb	0.02 lb	300 kg	0.01 kg	739 lb	$25,465.00
102587	IFXS4-600WR	78.7 × 59.1 in	4	1,320 lb	0.05 lb	600 kg	0.02 kg	739 lb	$25,465.00
102588	IFXS4-1000WR	78.7 × 59.1 in	4	2,200 lb	0.1 lb	1,000 kg	0.05 kg	739 lb	$25,465.00
102589	IFXS4-1500WR	78.7 × 59.1 in	4	3,330 lb	0.1 lb	1,500 kg	0.05 kg	739 lb	$25,465.00
102590	IFXS4-3000WR	78.7 × 59.1 in	4	6,660 lb	0.2 lb	3,000 kg	0.1 kg	739 lb	$25,465.00

Rails add 16.1 in to width

Options/Accessories - Not Available On All Models

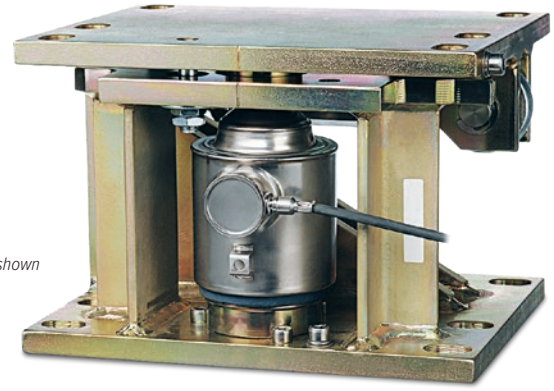
Part #	Description	Price
T4	Stop bar	Consult
T5	Tow bar and stop bar	Consult
T6	Two handles and two rollers	Consult
T7	Retractable wheels	Consult
T9	Bottom plate	Consult
T13	Four handles	Consult
T14	Integrated column	Consult
T15	Second ramp	Consult
Stainless Steel		
R2	316, T1, 2B cold-rolled steel, electropolished stainless steel	Consult
R6	304, 2B cold-rolled steel, electropolished stainless steel	Consult

Note: Consult factory for lifting device options and compatibility of combined options

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Inteco

Zinc-plated Steel Star Mount Kits



Junction box not shown



The zinc-plated star mount kit is optimized for the Inteco load cell family to guarantee the best weighing performance. It covers a capacity range from 500 kg up to 300 t. The special design allows a horizontal displacement in the unconstrained direction of the load cell. All constrainers are 100% maintenance free. There are two different materials available: stainless steel or mild steel zinc plated. Its unique design includes a dummy functionality to install the vessel without load cell. The top load disc remains in place even when the load cell is not mounted. The design principle integrates a lift-off protection and built-in stops.

Standard Features

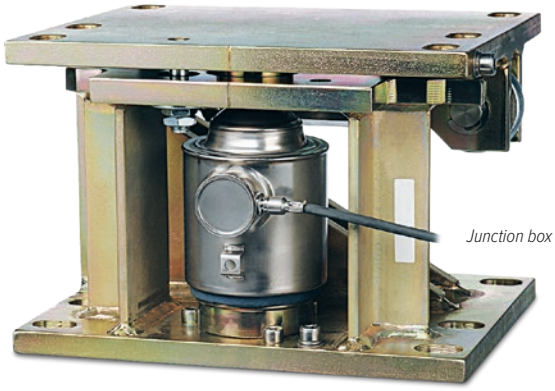
- Fast and easy installation
- Mounting kit with dummy function included
- Designed to withstand high lateral forces
- Maintenance-free constrainer and module construction
- Patent pending DE 101 38 435A1
- Approval Certificate "Germanischer Lloyd" No. 47-458-03HH
- Load cell output 1 mV/V
- 15-year load cell warranty
- 10,000 division load cell
- 45 kN zinc-plated mount destructive lateral force; 20 kN permissible lift-off protection
- Foot 20 kN lateral force and lift-off protection

Zinc-Plated Steel Models

Part #	Minebea Part #	Total Capacity		Load Cell Capacity		Price
3-Module Kit						
158706	Inteco-1531-U	3,300 lb	1,500 kg	1,100 lb	500 kg	$9,735.00
158708	Inteco-3031-U	6,600 lb	3,000 kg	2,200 lb	1,000 kg	$9,735.00
158710	Inteco-6031-U	13,200 lb	6,000 kg	4,400 lb	2,000 kg	$9,735.00
158712	Inteco-9031-U	19,800 lb	9,000 kg	6,600 lb	3,000 kg	$9,735.00
158716	Inteco-15031-U	33,000 lb	15,000 kg	11,025 lb	5,000 kg	$10,037.50
158719	Inteco-30031-U	66,000 lb	30,000 kg	22,050 lb	10,000 kg	$10,835.00
158721	Inteco-60031-U	132,000 lb	60,000 kg	44,100 lb	20,000 kg	$11,192.50
158723	Inteco-90031-U	198,000 lb	90,000 kg	66,140 lb	30,000 kg	$11,660.00
158725	Inteco-150031-U	330,500 lb	150,000 kg	110,200 lb	50,000 kg	$12,787.50
4-Module Kit						
158707	Inteco-2041-U	4,400 lb	2,000 kg	1,100 lb	500 kg	$12,045.00
158709	Inteco-4041-U	8,800 lb	4,000 kg	2,200 lb	1,000 kg	$12,045.00
158711	Inteco-8041-U	17,600 lb	8,000 kg	4,400 lb	2,000 kg	$12,045.00
158713	Inteco-12041-U	26,400 lb	12,000 kg	6,600 lb	3,000 kg	$12,045.00
158718	Inteco-20041-U	44,000 lb	20,000 kg	11,025 lb	5,000 kg	$12,430.00
158720	Inteco-40041-U	88,000 lb	40,000 kg	22,050 lb	10,000 kg	$13,502.50
158722	Inteco-80041-U	176,000 lb	80,000 kg	44,100 lb	20,000 kg	$13,997.50
158724	Inteco-120041-U	264,500 lb	120,000 kg	66,140 lb	30,000 kg	$14,602.50
158726	Inteco-200041-U	440,500 lb	200,000 kg	110,200 lb	50,000 kg	$16,115.00

Complete Kit Includes:
Inteco load cell, PR6001/10 (11) mount, junction box, load cell extension cable;
Four-mount kit includes PR6001/00 or (01) N foot

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Junction box not shown



The stainless steel star mount kit is optimized for the Inteco load cell family to guarantee the best weighing performance. It covers a capacity range from 500 kg to 300 t. The special design allows a horizontal displacement in the unconstrained direction of the load cell. All constrainers are 100% maintenance-free. There are two different materials available: stainless steel or zinc-plated mild steel . Its unique design includes a dummy functionality to install the vessel without a load cell. The top load disc remains in place even when the load cell is not mounted. The design principle integrates a lift-off protection and built-in stops.

Load Cell Certifications

FM APPROVED

Standard Features

- Fast and easy installation
- Mounting kit with dummy function included
- Inteco load cell for capacities ranging from 500 kg to 300 t
- Designed to withstand high lateral forces
- Maintenance-free constrainer and module construction
- Patent pending DE 101 38 435A1
- Approval Certificate “Germanischer Lloyd” No. 47-458-03HH
- Load cell output 1 mV/V
- 15-year load cell warranty
- 10,000 division load cell
- 39 kN stainless steel mount destructive lateral force; 20 kN permissible lift-off protection
- Foot 20 kN lateral force and lift-off protection

Stainless Steel Models

Part #	Minebea Part #	Total Capacity		Load Cell Capacity		Price
3-Module Kit						
158727	Inteco-1532-U	3,300 lb	1,500 kg	1,100 lb	500 kg	$11,907.50
158788	Inteco-3032-U	6,600 lb	3,000 kg	2,200 lb	1,000 kg	$11,907.50
158731	Inteco-6032-U	13,200 lb	6,000 kg	4,400 lb	2,000 kg	$14,685.00
158733	Inteco-9032-U	19,800 lb	9,000 kg	6,600 lb	3,000 kg	$11,907.50
158735	Inteco-15032-U	33,000 lb	15,000 kg	11,025 lb	5,000 kg	$12,182.50
158737	Inteco-30032-U	66,000 lb	30,000 kg	22,050 lb	10,000 kg	$13,007.50
158739	Inteco-60032-U	132,000 lb	60,000 kg	44,100 lb	20,000 kg	$13,392.50
158741	Inteco-90032-U	198,000 lb	90,000 kg	66,140 lb	30,000 kg	$13,832.50
158743	Inteco-150032-U	330,500 lb	150,000 kg	110,200 lb	50,000 kg	$14,960.00
4-Module Kit						
158729	Inteco-2042-U	4,400 lb	2,000 kg	1,100 lb	500 kg	$14,685.00
158730	Inteco-4042-U	8,800 lb	4,000 kg	2,200 lb	1,000 kg	$11,907.50
158732	Inteco-8042-U	17,600 lb	8,000 kg	4,400 lb	2,000 kg	$11,907.50
158734	Inteco-12042-U	26,400 lb	12,000 kg	6,600 lb	3,000 kg	$11,907.50
158736	Inteco-20042-U	44,000 lb	20,000 kg	11,025 lb	5,000 kg	$15,097.50
158738	Inteco-40042-U	88,000 lb	40,000 kg	22,050 lb	10,000 kg	$16,170.00
158740	Inteco-80042-U	176,000 lb	80,000 kg	44,100 lb	20,000 kg	$16,665.00
158742	Inteco-120042-U	264,500 lb	120,000 kg	66,140 lb	30,000 kg	$17,270.00
158744	Inteco-200042-U	440,500 lb	200,000 kg	110,200 lb	50,000 kg	$18,782.50

Complete Kit Includes:
Inteco load cell, PR6001/10 (11) mount, junction box, load cell extension cable;
Four-mount kit includes PR6001/00 or (01) N foot

PRECISION INDUSTRIAL WEIGHING

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MINEBEA INTEC

PR6202

Hygienic Weigh Module Kits





The PR6202 range of load cells is specially designed to meet the high demands of the food, pharmaceutical and chemical industries. These products are made completely from stainless steel and are specially designed for use with process vessels. All horizontal surfaces are inclined for easy draining, and gaps and undercuts have purposely been avoided. The materials and surface quality were also selected to ensure the load cell meets tried and tested international standards and specifications. Its unique design principle enables it to compensate for motions caused by mechanical/thermal contractions or expansions of containers and/or padding construction in combination with its mounting kit, which has been specially designed for this area of application. The PR6202 is designed for consistent, high accuracy.

Load Cell Certifications

OIML FM APPROVED Ex

Zinc-Plated Steel Options

Part #	Minebea Part #	Total Capacity		Load Cell Capacity		Price
3-Module Kit						
158761	PR6202-3032-U	6,600 lb	3,000 kg	2,200 lb	1,000 kg	$15,840.00
158764	PR6202-6032-U	13,200 lb	6,000 kg	4,400 lb	2,000 kg	$15,840.00
158767	PR6202-12032-U	26,000 lb	12,000 kg	8,820 lb	4,000 kg	$16,280.00
158770	PR6202-18032-U	39,500 lb	18,000 kg	13,230 lb	6,000 kg	$16,280.00
158772	PR6202-30032-U	66,000 lb	30,000 kg	22,050 lb	10,000 kg	$16,280.00
158929	PR6202-75032-U	165,000 lb	75,000 kg	55,120 lb	25,000 kg	$16,720.00
158775	PR6202-150032-U	330,500 lb	150,000 kg	110,230 lb	50,000 kg	$19,002.50
4-Module Kit						
158762	PR6202-4042-U	8,800 lb	4,000 kg	2,200 lb	1,000 kg	$19,690.00
158765	PR6202-8042-U	17,600 lb	8,000 kg	4,400 lb	2,000 kg	$19,690.00
158769	PR6202-16042-U	35,000 lb	16,000 kg	8,820 lb	4,000 kg	$20,267.50
158771	PR6202-24042-U	52,900 lb	24,000 kg	13,230 lb	6,000 kg	$20,267.50
158773	PR6202-40042-U	88,000 lb	40,000 kg	22,050 lb	10,000 kg	$20,267.50
158774	PR6202-100042-U	220,000 lb	100,000 kg	55,120 lb	25,000 kg	$20,845.00
158776	PR6202-200042-U	440,500 lb	200,000 kg	110,230 lb	50,000 kg	$23,897.50

Complete Kit Includes:
PR6202 load cell, PR6002/10S (11S) mount, junction box, load cell extension cable;
Four-mount kit includes PR6002/04S or (05S) foot

Standard Features

- Proven rocker pin principle for accurate repeatability
- Easy corner adjustment by matched load cell output
- All stainless steel construction (316 stainless steel load cells)
- Wide operating temperature range
- High overload capacity
- Resists vibration for consistent high accuracy
- Hermetically sealed, IP68/69K (depth of 1.5 m for 10,000 hours)
- EX-version available (PR 6202/..E)
- 10,000 division load cell, 2 mV/V
- 15-year warranty
- 50 kN destructive lateral force, and 25 kN permissible lift-off protection
- Foot 35 kN lateral force and lift-off protection

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Contego-Hygienic Weigh Module Kits

Lateral Cable Outlet



Junction box not shown

Load Cell Certifications

FM APPROVED

The protective cover made of FDA-compliant silicone ensures a reliable encapsulation of the module and prevents the intrusion of dirt and microorganisms. The connecting geometry between protective cover and mounting plates guarantees a safe fitting and, together with the already excellent resistance to aging of the silicone, ensures reliable protection over years.

The Contego® weighing module therefore represents an absolutely hygienic unity of load cell and installation kit. As a result, you can refrain from using other expensive and complicated constructions to protect the weighing technology against dirt.

Besides the hygienic aspect, the Contego weighing module provides all the other important mechatronic functions for a fast operational startup and reliable results. The integrated constraint holds the process vessel in the proper position and, at the same time, allows movement through thermal expansion of the vessel. The integrated lift-off protector is a reliable safety feature to protect the vessel from tilting. At the same time, this feature can be used as a lifting system as well. This way, the vessel leg can be raised a few millimeters without using supplemental tools.

A PR6241 S-type load cell is used with this module. This series is distinguished by its unmatched reliability, robustness and stability, enabling years of undisturbed usage without any readjustment, in addition to the high measuring accuracy and reproducibility.

PRECISION INDUSTRIAL WEIGHING

Options/Accessories

Part #	Type	Minebea Part #	Description	Price
160438	PR6041/80S	9405 360 41802	Bottom plate, tank leg connection	$544.50

Lateral Cable Outlet Options

Part #	Minebea Part #	Total Capacity		Load Cell Capacity		Price
3-Module Kit						
158832	CTG-332A-U	660 lb	300 kg	220 lb	100 kg	$12,567.50
158834	CTG-632A-U	1,300 lb	600 kg	440 lb	200 kg	$12,567.50
158892	CTG-932A-U	1,900 lb	900 kg	660 lb	300 kg	$12,567.50
158837	CTG-1532A-U	3,300 lb	1500 kg	1,100 lb	500 kg	$12,567.50
158839	CTG-3032A-U	6,600 lb	3000 kg	2,200 lb	1,000 kg	$12,567.50
158841	CTG-6032A-U	13,200 lb	6,000 kg	4,400 lb	2,000 kg	$12,567.50
4-Module Kit						
158833	CTG-442A-U	880 lb	400 kg	220 lb	100 kg	$16,472.50
158835	CTG-842A-U	1,700 lb	800 kg	440 lb	200 kg	$16,472.50
158836	CTG-1242A-U	2,500 lb	1200 kg	660 lb	300 kg	$16,472.50
158838	CTG-2042A-U	4,400 lb	2000 kg	1,100 lb	500 kg	$16,472.50
158840	CTG-4042A-U	8,800 lb	4000 kg	2,200 lb	1,000 kg	$16,472.50
158842	CTG-8042A-U	17,600 lb	8000 kg	4,400 lb	2,000 kg	$16,472.50

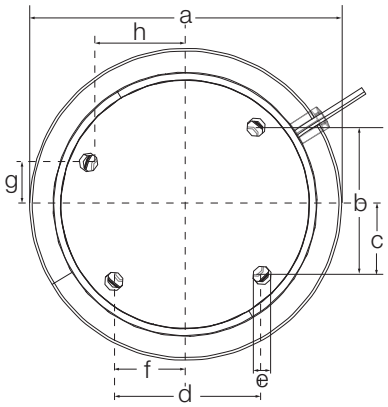
Complete Kit Includes:
Contega load cell, junction box, load cell extension cable

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H
in/mm								
Lateral cable	8.3 in (210 mm)	3.7 in (94 mm)	1.9 in (47 mm)	3.7 in (94 mm)	0.5 in (12 mm)	1.9 in (47 mm)	1.1 in (29 mm)	2.4 in (60 mm)

Standard Features

- Compact and absolute hygienic weighing solution for a load range up to 2 t
- Quick and seamless installation
- Easy cleaning without residue
- High chemical resistance
- Protective cover made of FDA-compliant silicone
- Integrated S-like lift-off protector and jack-up function with constrainer for horizontal forces
- Proven rocker pin principle for accurate repeatability
- 10,000 divisions
- Load cell, 2 mV/V
- 15-year load cell warranty
- 30 kN destructive lateral force and 8 kN permissible lift-off protection



PR5220 TCP/IP Ethernet Transmitter



The PR5220 Ethernet transmitter sets new standards in process instrumentation.
The standard Ethernet TCP/IP interface enables easy transmission of information to superordinate systems.

Load Cell Certifications

OIML

Standard Features

- Configuring via VNC
- OPC server
- Full digital signal processing with up to 4.8 Mio divisions internal resolution
- SmartCalibration feature for fast calibration even without weights
- Requires supply voltage of 24 VDC
- IP20 housing, DIN rail mount
- Verifiable with remote display up to 10,000 e, CL III (EN 45501, OIML R76)
- Precision analog output
- Serial RS-485/422 interface
- CD supplied with software suite
- 10,000 divisions at six samples per second

Specifications

Power Consumption:
6 W/8 W (Versions /01, /04, /06, /07)

Supply Voltage:
24 VDC, ±20 %

Analogue Output:
0 to 10 or 4 or 20 mA, internal resolution 16-bit, usable step-width: 0.5 µA max. load 500 O; user configurable

Serial Interfaces:
RS-422/485 via screw terminals
Protocol: Remote display, SMA and Minebea digital scales (XBPI–protocol)

Electrical Connections:
All electrical connections via modular screw terminals for 2.5 mm
2 max. System Phoenix/COMBICO

Input Range:
7.5 mV (appr. 4.8 Mio. div.)

Part Number/Price

Part #	Type	Minebea Part #	Description	Price
158856	PR5220/00	940515220003	PR5220 Ethernet TCP/IP Transmitter, 4 to 20 mA	$2,299.00
158857	PR5220/01	940515220013	PR5220 Ethernet TCP/IP Transmitter, 4 to 20 mA with PROFIBUS DP	$2,777.50
158858	PR5220/04	940515220043	PR5220 Ethernet TCP/IP Transmitter, 4 to 20 mA with DeviceNet	$2,777.50
158859	PR5220/06	940515220063	PR5220 Ethernet TCP/IP Transmitter, 4 to 20 mA with PROFINET	$2,777.50
158891	PR5220/07	940515220073	PR5220 Ethernet TCP/IP Transmitter, 4 to 20 mA with EtherNet/IP	$2,777.50

Specifications (cont.)

Usable resolution:
0.2 µV/d

Input Signal:
Measuring signal: 0 to 36 mV
(for 100 % nominal load)

Control Outputs:
Quantity: 3 opto-isolated output, passive
Voltage: max. 30 VDC
Current: max. 30 mA
Functions: Limits, weight status

Control Inputs:
Quantity: 3, opto-isolated input, passive
Functions: zero setting, taring
Voltage: max. 30 VDC
Current: max. 10 mA

Ethernet Interface (functions):
Ethernet IP and Modbus/TCP
Definition of an IP address: – AutoIP; – DHCP Server classification; – manual entering of an IP address
Automatic detection of signal transmission and corresponding change over (cross-over or patch cable) Webservice via SOAP|UPnP (Simple Object Access Protocol) Synchronal Modbus UDP

In/Output:
All I/O circuits fully galvanically isolated from sensor input and supply

Load Cell Connection:
All strain gauge load cells;
four- or six-wire connection

Load Cell Supply:
12 V, short-circuit proof. External load cell supply possible

Digital Filter for Load Cell:
4th order (low pass), Bessel, aperiodic or Butterworth

Minimum Load Impedance:
Min. 75 ohm e.g. 6 load cells with 600 ohm or 4 load cells with 350 ohm

Measuring Principle:
Measuring amplifier: Delta-Sigma converter
Measuring time: min 5 ms - max. 1600 ms

Linearity:
< 0.002 %

Status Indicator:
Status LEDs to signal operation and error conditions.

Temperature Effects:
Zero: TK0 m < 0.02 µV/K RTI
Span: TKspan < ± 2 ppm/K

Dimensions:
(L × W × H)
Version 00: 3.9 × 4.6 × 1.77 in
(99 × 116 × 45 mm)
Versions 01, 04, 06, 07: 3.9 × 4.6 × 2.68 i n
(99 × 116 × 68 mm)

Housing:
Housing IP20 according to DIN 40050
Mounting on DIN Rail 35 mm according to DIN 46277
Material: polyamide RoHS conform

Temperature:
WandM: 14 °F to 104 °F (–10 °C to 40 °C)
Operation: 14 °F to 122 °F (–10 °C to 50 °C)
Storage: -40 °F to 158 °F (–40 °C to 70 °C)

Weight:
Version 00:
Net: 0.29 kg
Versions 01, 04, 06, 07
Net: 0.35 kg

Approvals:
OIML R76 min. verification interval: 0.5 µV/e
10,000 e class III acc. to EN 45501

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PR5230 Fieldbus Transmitter



The fieldbus transmitter PR5230 is a product for readout and transmit weight values to installed networks and control systems. LCD display is configurable and displays up to 10 items, and can be installed at the process. Through the different interface upgrade possibilities and the robust stainless steel housing, the PR5230 is an innovative and flexible process unit.

Load Cell Certifications

Standard Features

- Display for weight and status information
- OIML approval for 10,000e, and an internal resolution of 4 and 8 Mio. counts
- SmartCalibration feature for fast calibration even without weights
- Serial Interface RS-485/422 and RS-232
- Option cards: Analog output 0 to 10 or 4 to 20 mA, DeviceNet® and EtherNet/IP™
- Load cell connection board for up to four load cells

Specifications

Power Consumption:
11 W

Supply Voltage:
230 VAC, (+10/-15 %):
24 VDC, (±20 %)

In/Output:
All I/O circuits fully galvanically isolated from sensor input and supply 3 inputs/3 outputs (relays)

Control Outputs:
Quantity: 3
Relay output, passive
Functions: Limits, weight status
Voltage: max. 30 VDC
Current: max. 30 mA

Specifications (cont.)

Control Inputs:
Quantity: 3 opto-isolated input, passive
Functions: zero setting, taring
Voltage: max. 30 VDC
Current: max. 10 mA

Remote I/O:
The I/O can be set internally via a function and remote via fieldbus or PC

Load Cell Connection:
All strain gauge load cells; four- or six-wire connection

Load Cell Supply:
12 V, short-circuit proof. External load cell supply possible.

Minimum Load Impedance:
Min. 75 ohm (e.g. 6 load cells with 600 ohm or 4 load cells with 350 ohm)

Measuring Principle:
Measuring amplifier: Delta-Sigma converter
Measuring time: min 5 ms – max. 1600 ms

Accuracy:
7.5 nV (appr. 4.8 Mio. div.)

Usable Resolution:
0.2 µV/d

LC Input Signal:
Measuring signal: 0 bis 36 mV
(for 100 % nominal load)

Specifications (cont.)

WandM Approval (in preparation):
10,000 e class III acc. to EN 45501; according to. OIML R76, min. verification interval: 0.5 µV/e at 160 ms

Linearity:
< 0.003 %

Temperature Effects:
Zero: TK0 m < 0.05 µV/K
Relative Thermal Index
Span: TKspan < ±2.5 ppm/K

Digital Filter for Load Cell:
4th order (low pass), Bessel, aperiodic or Butterworth

Display and Status:
LCD, transflective, back-lit
Weight: 6-digits
Size: 128 × 64-pixel, graphic
Information can be configured
Status LEDs to signal operation and error conditions

Keys/Buttons:
Zero, Tare, Test

Ethernet Interface for Optional IP Card:
Ethernet TCP/IP and Modbus® TCP
Definition of an IP address: – AutoIP; – DHCP Server classification; – manual entering of an IP address
Automatic detection of signal transmission and corresponding change over (cross-over or patch cable)
Web service via SOAP|UPnP (Simple Object Access Protocol) Synchronal Modbus UDP

Serial Interfaces:
RS -422/485 and RS-232 Protocols: Remote Display, SMA, Modbus RTU, printer and Minebea digital scales (XBPI – protocol)

Options Analogue Output PR 5230/06 (C11):
0 to 10 VDC or 4 to 20 mA, internal resolution 16 -bit, usable step width: 0.5 µA max. load 500 O, user configurable

Fieldbus PR 1721/4x (C2x):
PROFIBUS® DP, Interbus-S, DeviceNet®, CC-Link, PROFINET and EtherNet/IP™

Load Cell Connection Board PR 5230/22 (C31):
For the internal connection of up to 4 load cells (instead using a cable junction box)

Rating/Material:
Stainless steel electro-polished
IP66, RoHS compliant

Dimensions:
(L × W × H)
13.78 × 9.84 × 5.91 in
(350 × 250 × 150 mm)

Weight:
Net: 1.45 kg (3.2 lb)

Temperature:
WandM: 14 °F to 104 °F (–10 °C to 40 °C)
Operation: 14 °F to 122 °F (–10 °C to 50 °C)
Storage: -4 °F to 158 °F (–20 °C to 70 °C)

ATEX Approvals PR 5230:
II 3G Ex nA nC IIC T4
II 3D Ex tD A22 IP6X T80° C
SAG 09ATEX004X
II (2)G [Ex ib IIC
II (2)D [Ex ibD
KEMA 10 ATEX 0065 X

Part Number/Price

Part #	Type	Minebea Part #	Description	Price
158861	PR5230/00	9405 152 30000	PR5230 transmitter in field housing	$3,245.00

Options/Accessories

Part #	Type	Minebea Part #	Description	Price
158863	PR1721/57	9405 317 21571	EtherNet/IP interface module	$1,496.00
158864	PR1721/44	9405 317 21441	DeviceNet interface module	$1,309.00
160431	PR5230/06	9405 352 30061	0 to 10 or 4 to 20 mA interface module	$242.00

PRECISION INDUSTRIAL WEIGHING

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DIGI® DSX-1000

High-precision Checkweigher



Standard Features

- Full-color touchscreen display
- Six-digit display
- Splash-proof housing
- RS-232C interface

Specifications

Power AC:
100 to 240 V

Power Consumption:
22 W

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)

Humidity:
15% to 85% relative humidity

Resolution:
Internal: 300,000 counts

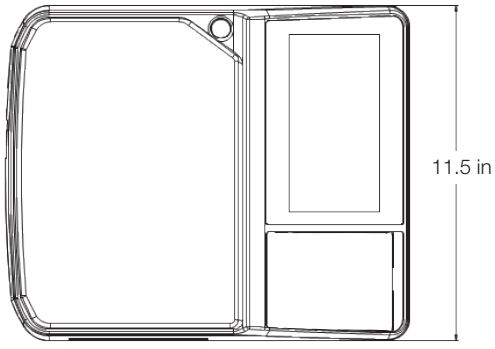
Warranty:
Two-year limited

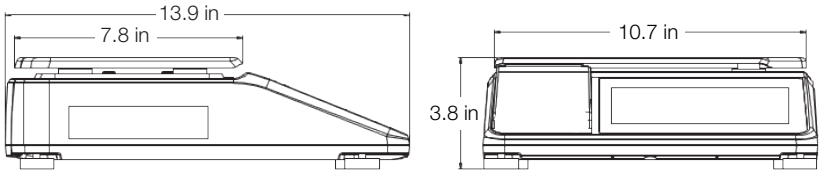
Approvals:
UL

Approvals

Part Number/Price

Part #	Description	Price
178183	600 × 0.05 g	$685.00
178185	6 kg × 0.5 g	$685.00
178187	15 kg × 2 g	$685.00





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Rice Lake SURVIVOR® SST4®

Washdown Label Printer



Part Number/Price

Part #	Description	Est. Weight	Price
209110	SST4 direct thermal	70 lb	$5,230.00
209111	SST4 direct thermal with heater installed	70 lb	$5,945.00
209112	SST4 direct thermal with Wi-Fi	70 lb	$6,590.00
209113	SST4 direct thermal with Wi-Fi and heater installed	70 lb	$7,275.00
209114	SST4 direct thermal with internal rewind	70 lb	$5,790.00
209115	SST4 direct thermal with internal rewind and heater installed	70 lb	$6,520.00
209116	SST4 direct thermal with internal rewind and Wi-Fi	70 lb	$7,170.00
209117	SST4 direct thermal with internal rewind, Wi-Fi and heater installed	70 lb	$7,899.00

Options/Accessories

Part #	Description	Price
111121	Heater kit for SST4 115 VAC (for installs after printer has been purchased)	$730.00
111872	Heater kit for SST4, 230 VAC (for installs after printer has been purchased)	$535.00
93181	Film, printhead cleaning 4 in wide, three/box	$21.50
Label Stock/Ribbon (W × L)		
21776	Direct thermal, 3 × 3 in, 8 in diameter with perf., 2,000/roll	$77.00/roll
150921	Direct thermal, 4 × 6 in, 8 in diameter with perf., 1,000/roll	$40.00/roll
25975	Direct thermal, 4.25 × 2.5 in, 6 in diameter with perf., 1,095/roll	$30.75/roll
21788	Thermal transfer, 4 × 6 in, 8 in diameter, 1,000/roll	$24.00/roll
20573	Thermal transfer, 4 × 6.5 in, 8 in diameter, 900/roll	$25.00/roll
126629	Thermal kit, (4) 4 in labels, (2) 4 in ribbons and cleaning card	$187.00
34056	Wax ribbon, black, 4 in 1,182 ft (required for thermal transfer labels)	$30.50/roll
Maintenance/Replacement Components		
209107	Printhead 203 dpi, SST4	$260.00
209136	Board, main	$345.00
209137	Power supply	$235.00
209138	Display, front panel	$245.00
209139	Power cord	$15.00
Cables		
41276	DB9 male RS-232 serial data cable with blunt end (Rice Lake indicators)	$77.00
64794	DB9 RS-232 serial data cable with DB9F to DB9M	$69.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
Consult	Custom 20 mA/RS-232 serial interface cable	$100.00

Custom cables are designed to interface with your specific equipment.
Please specify equipment model number and connector type.
Standard cable length is 5 ft. $2.00 charge for each additional foot.

Standard Features

- Washdown enclosure
- Direct thermal
- 203 dpi printhead
- Label length detection
- Real-time clock
- USB, serial or parallel communications
- Line mode

Options

- Thermal transfer
- Heater
- Bluetooth®
- Wireless LAN (802.11 b/g/n)
- External label roll holder for 10 in (250 mm) OD label rolls
- External label rewinder
- Label dispenser and internal rewinder (factory installed)

Specifications

Print Speed:
10 in per second (254 mm)

Supply Roll Capacity:
8 in (203 mm) O.D. on
1.5 to 3.0 in (38 to 76 mm) core

Bar Code Modulus:
5 mil to 55 mil "X" dimension in picket fence or ladder orientations

Media Width:
4.09 in (104 mm)

Media Type:
Roll fed, die-cut or continuous labels; perforated or continuous tag/ticket stock

Print Length:
0.25 to 99 in (6 mm to 247 cm)

Media Thickness:
0.0025 to 0.0100 in (0.0635 to 0.254 mm)

1-D Bar Codes:
Code 39, Code 93, EAN 8/13 (add on 2 & 5), UPC A/E (add on 2 & 5), I 2 of 5 & I 2 of 5 with Shipping Bearer Bars, Codabar, Code 128 (subset A, B, C), EAN 128, RPS 128, UCC 128, UCC/EAN-128 K-Mart, Random Weight, Post NET, ITF 14, China Postal Code, HIBC, MSI, Plessey, Telepen, FIM, GS1 DataBar, German Post Code, Planet 11 & 13 digit, Japanese Postnet, I 2 of 5 with human readable check digit, Standard 2 of 5, Industrial 2 of 5 , Logmars, Code 11, Code 49, Cadablock

2-D Bar Codes:
PDF417, Micro PDF417, Datamatrix code, Maxicode, QR code, Micro QR code and Aztec code

Graphics Support:
PCX and BMP files

Memory:
128 MB FLASH
23 MB SDRAM

Dimensions:
(L × W × H) 24.5 × 12.5 × 15.0 in

Rating/Material:
IP69K, 304 stainless steel

Interfaces:
RS-232, USB, Ethernet TCP/IP

Power Source:
Switching power 100 to 240 VAC, 50/60 Hz input

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Warranty:
One-year limited
Printhead (original):
One-year or 1 million linear inches
Printhead (replacement): 90 days

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Rice Lake GUARDIAN™

Stainless Steel Printer Enclosure



Standard Features

- Designed to protect various printers from harsh washdown environments
- Single lift-and-turn latch for easy access
- Adjustable anti-skid feet for easy leveling alignment and cleaning under unit
- Sliding label-access door
- Heavy-gauge 304 stainless steel construction for durability

Specifications

Enclosure:
Stainless steel; piano-style hinge

Dimensions:
(L × W × H)
21.25 × 14.25 × 14.25 in
(540 × 361 × 361 mm)

Warranty:
One-year limited

Part Number/Price

Part #	Description	Est. Weight	Price
66762	Guardian stainless steel printer enclosure. Consult for model compatibility	38 lb	$6,270.00

PRINTERS

Rice Lake GUARDIAN G-2™

Steel Printer Enclosure



Standard Features

- Designed to protect various printers from harsh washdown environments
- Single lift-and-turn latch for easy access
- Adjustable anti-skid feet for easy leveling alignment and cleaning under unit
- Sliding label-access door
- Heavy-gauge 304 stainless steel construction for durability

Specifications

Enclosure:
304 stainless steel

Dimensions:
(L x W x H)
18.50 × 12.75 × 8.25 in
(324 × 209.5 × 469.9 mm)

Warranty:
One-year limited

Part Number/Price

Part #	Description	Est. Weight	Price
78672	Guardian G-2, 8.44 × 6.54 in	30 lb	$1,331.00
99465	Guardian G-2, 7.23 × 6.52 in	30 lb	$1,331.00
107638	Guardian G-2, 7.41 × 6.54 in	30 lb	$1,331.00
107639	Guardian G-2, 10.22 × 9.10 in	30 lb	$1,331.00

Options/Accessories

Part #	Description	Price
46341	Heater option	$248.00
46342	Fan option	$132.00

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Rice Lake POLY GUARD

Clear Printer Enclosure



Part Number/Price

Part #	Description	Est. Weight	Price
88532	Enclosure, GoDEX 1200i+	24 lb	$1,683.00
Consult	Additional models available	24 lb	Consult

Options/Accessories

Part #	Description	Price
Consult	Ventilation fan	Consult
Consult	Heater assembly with power	Consult

Standard Features

- Designed for use in meat and food processing plants
- Cover separates from bottom
- Power and data cable feed through sealed notch in back of enclosure
- Side door for easy label loading

Specifications

Enclosure:
0.25 in polycarbonate
Base-natural polyethylene (butcher's block)

Dimensions:
(L x W x H)
24.50 × 14.00 × 14.75 in
Add 0.50 in sides for latches and 0.50 in side door

Warranty:
90-day limited

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Standard Features

- Auto language emulations GEPL, GZPL
- Free GoLabel design software for EZPL
- 203 dpi
- 32-bit CPU
- Drop-in media loading
- USB or RS-232 interface (DB-9F)
- Plain, gap label, black, mark or fanfold label
- Label length detection
- Direct thermal
- Serrated tear bar

Approvals

Part Number/Price

Part #	Description	Est. Weight	Price
167515	DT2x 2 in direct thermal, time and date 10/240 VAC printer	3 lb	$365.00
167626	Label peeler, black	—	$41.00
167627	Cutter, black	—	$210.00
107532	Printhead	—	$120.00

Options/Accessories

Part #	Description	Price
38941	Cleaning pen for open printhead printers 12/box	$67.00
111085	Power supply, printers	$170.00
15438	Power cord, detachable	$35.00
Label Stock/Ribbon		
110347	Direct thermal, (W × L) 2.25 × 1.25 in, 5 in diameter with perf., 2,100/roll	$17.00/roll
40332	Direct thermal, (W × L) 2.25 × 2 in, 5 in diameter with perf., 1,445/roll	$17.00/roll
110348	Direct thermal, (W × L) 2.25 × 3 in, 5 in diameter with perf., 950/roll	$18.00/roll
110349	Direct thermal, (W × L) 2.25 × 4 in, 5 in diameter with perf., 700/roll	$17.00/roll
65617	Direct thermal, (W × L) 2.25 × 4.5 in, 5 in diameter with perf., 600/roll	$17.50/roll
110346	Direct thermal, (W × L) 1.20 × 0.85 in, 5 in diameter with perf., 2,710/roll	$17.00/roll
47761	Direct thermal, (W × L) 2.5 × 121 ft, continuous 12 rolls/case	$96.00/case
Cables		
41276	6 ft serial cable DB9 M to blunt end (Rice Lake indicators)	$77.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
64661	6 ft serial cable DB9 M to 8-Pin DIN	$69.00
64660	6 ft serial cable DB9 M to DB9 male	$69.00
Consult	Custom RS-232 serial cable	$100.00

Specifications

Print Speed:
Up to 7 ips

Print Length:
Min: 0.16 in
Max: 68 in

Print Width:
2.12 in

Media:
Types: Continuous form, gap labeling, black mark sensing and punched sensing
Thickness: Min. 0.0024 in - Max. 0.01 in
Label Roll Diameter: Max. 5 in
Core Diameter: Min. 1 in - Max. 1.5 in

Resident Fonts:
Bitmap fonts 8 times expandable in horizontal and vertical directions
11 resident alphanumeric fonts (included OCR A and B) are expandable eight times horizontally and vertically

1-D Bar codes:
China Postal Code, Codabar, Code 11, Code 32, Code 39, Code 93, Code 128 (subset A, B, C), EAN-8/EAN -13 (with 2 & 5 digits extension), EAN 128, FIM, German Post Code, GS1 DataBar, HIBC, Industrial 2 of 5, Interleaved 2-of-5 (I 2 of 5), Interleaved 2-of-5 with Shipping Bearer Bar s , ISBT- 128, ITF 14, Japanese Postnet, Logmars, MSI, Postnet, Plessey, Planet 11 & 13 d igit, RPS 128, Standard 2 of 5, Telepen, Matrix 2 of 5, UPC-A/UPC-E (with 2 or 5 digit extension), UCC/EAN-128 K-Mart, Random Weight and Pharmacode

2-D Bar codes:
Aztec code, Code 49, Codablock F, Datamatrix code, Maxi Code, Micro PDF417, Micro QR code, PDF417, QR code, TLC 39, GS1 Composite, Dot Code, Macro PDF4 17

Memory:
4 MB flash

Interfaces:
USB 2.0 (Type B)
Serial Port (RS-232)
Ethernet 10/100 Mbps

Power:
Auto Switching 100/240 VAC, 50/60 Hz

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)
Storage:
-4 °F to 122 °F (-20 °C to 50 °C)

Dimensions:
(L × W × H)
8.58 × 3.94 × 6.77 in
(218 × 100 × 172 mm)

Warranty:
Two-year limited

Approvals:
CE Listed
FCC Class A
cULus Listed

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GoDEX® DT4x+

Direct Thermal Label Printer



Approvals

Standard Features

- Auto language emulations GEPL, GZPL
- Free GoLabel design software for EZPL or Q-Label
- 203 dpi
- 32-bit CPU
- Drop-in media loading
- USB, Ethernet and RS-232 interface
- Plain, gap label, black, mark or fanfold label
- Label length detection

Part Number/Price

Part #	Description	Est. Weight	Price
167516	DT4x+ 4 in direct thermal, 110/240 VAC printer	4 lb	$405.00
167628	Label peeler, black	—	$57.50
167629	Cutter, black	—	$210.00
150743	Printhead	—	$205.00
107638	Guardian enclosure	—	$1,331.00

Options/Accessories

Part #	Description	Price
38941	Cleaning pen for open printhead printers 12/box	$67.00
111085	Power supply, printers	$170.00
15438	Power cord, detachable	$35.00
193466	Real-time clock for DT4xW	$21.00
Label Stock/Ribbon		
53251	Direct thermal, (W × L) 4 × 3 in, 5 in diameter with perf., 930/roll	$32.00/roll
40331	Direct thermal, (W × L) 4 × 4 in, 5 in diameter with perf., 745/roll	$34.00/roll
37345	Direct thermal, (W × L) 4 × 6 in, 5 in diameter with perf., 450/roll	$24.00/roll
Cables		
41276	6 ft serial cable DB9 M to blunt end (Rice Lake indicators)	$77.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
64661	6 ft serial cable DB9 M to 8-Pin DIN	$69.00
64660	6 ft serial cable DB9 M to DB9 male	$69.00
Consult	Custom RS-232 serial cable	$100.00

Specifications

Print Speed:
Up to 7 ips

Print Length:
Min: 0.16 in
Max: 68 in

Print Width:
4.25 in

Media:
Types: Continuous form, gap labeling, black mark sensing and punched sensing
Thickness: Min. 0.0024 in - Max. 0.008 in
Label Roll Diameter: Max. 5.0 in
Core Diameter: Min. 1 in, Max. 1.5 in

Resident Fonts:
Bitmap fonts 8 times expandable in horizontal and vertical directions
11 resident alphanumeric fonts (included OCR A and B) are expandable eight times horizontally and vertically

Printer Language:
EZPL, GEPL, GZPL, GDPL auto switch

Bar Codes:
Code 39, Code 93, Code 128 (subset A, B, C,) UCC/EAN - 128 K-Mart, UCC/EAN - 128, UPC A/E (add on 2 and 5) 2 of 5, EAN 8/13 (add on 2 and 5) Codabar, Post Net, EAN 128, DUN 14, MaxiCode, HIBC, Plessey, Random Weight, Telepen, FIM, China Postal Code, RPS 128, PDF 417, Datamatrix code, QR Code

Memory:
8 MB flash

Interfaces:
USB 2.0 (Type B)
Serial Port (RS-232)
Ethernet 10/100 Mbps

Power:
Auto Switching 100 to 240 VAC, 50/60 Hz

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)
Storage:
-4 °F to 122 °F (-20 °C to 50 °C)

Dimensions:
(L × W × H)
8.58 × 6.61 × 6.53 in
(218 × 168 × 166 mm)

Warranty:
Two-year limited

Approvals:
CE Listed
FCC Class A
cULus Listed

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GoDEX® G500

Direct Thermal/Thermal Transfer Label Printer



Approvals

Standard Features

- Auto language emulations GEPL, GZPL
- Free GoLabel design software for EZPL or Q Label
- 203 dpi
- 32-bit CPU
- Drop-in media loading
- USB or RS-232 (DB-9F) interface
- Plain, gap label, black, mark or fanfold label
- Label length detection

Part Number/Price

Part #	Description	Est. Weight	Price
132425	G500 4 in direct/thermal transfer, 110/240 VAC printer	6 lb	$615.00
150744	Label peeler, black	—	$42.00
150745	Cutter	—	$450.00
150746	Printhead	—	$205.00
107639	Guardian enclosure	—	$1,331.00

Options/Accessories

Part #	Description	Price
38941	Cleaning pen for open printhead printers 12/box	$67.00
111085	Power supply, printers	$170.00
15438	Power cord, detachable	$35.00
Label Stock/Ribbon		
53261	Thermal transfer, (W × L) 4 × 3 in, 5 in diameter with perf., 930/roll	$29.00/roll
178965	Ribbon (black), 4.3 in wax/resin, 984 ft length	$33.00/roll
Cables		
41276	6 ft serial cable DB9 M to blunt end (Rice Lake indicators)	$77.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
64661	6 ft serial cable DB9 M to 8-Pin DIN	$69.00
64660	6 ft serial cable DB9 M to DB9 male	$69.00
Consult	Custom RS-232 serial cable	$100.00

Specifications

Print Speed:
Up to 5 ips

Print Length:
Min: 0.16 in
Max: 68 in

Print Width:
4.25 in

Media:
Types: Continuous form, gap labeling, black mark sensing and punched sensing
Thickness: Min. 0.0024 in - Max. 0.008 in
Label Roll Diameter:
Max. 5.0 in
Core Diameter: Min. 1 in - Max. 1.5 in

Printer Language:
GZPL or GEPL, EZ PL auto switch

Resident Fonts:
Bitmap fonts 8 times expandable in horizontal and vertical directions
11 resident alphanumeric fonts (included OCR A and B) are expandable eight times horizontally and vertically

Bar Codes:
Code 39, Code 93, Code 128 (subset A, B, C,) UCC/EAN - 128 K-Mart, UCC/EAN - 128, UPC A/E (add on 2 and 5,) 2 of 5, EAN 8/13 (add on 2 and 5.) Codabar, Post Net, EAN 128, DUN 14, MaxiCode, HIBC, Plessey, Random Weight, Telepen, FIM, China Postal Code, RPS 128, PDF 417, Datamatrix code, QR Code

Memory:
8 MB flash

Interfaces:
USB 2.0 (Type B)
Serial Port (RS-232)
Ethernet (RJ-45)

Power:
Auto Switching 100/240 VAC, 50/60 Hz

Temperature:
Operating: 41 °F to 104 °F (5 °C to 40 °C)
Storage: -4 °F to 122 °F (-20 °C to 50 °C)

Dimensions:
(L × W × H)
11.2 × 8.9 × 6.8 in
(285 × 226 × 171 mm)

Warranty:
Two-year limited

Approvals:
CE Listed
FCC Class A

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GoDEX® GX4000i Pro Series

Direct Thermal/Thermal Transfer Label Printer



Approvals

Standard Features

- Built in video assist guidance
- Free GoLabel and GoLabel II design software
- 32-bit RISC CPU
- Equipped with a 5 in LCD touchscreen
- Aluminum cast frame

Part Number/Price

Part #	Description	Est. Weight	Price
GX4200i			
222248	Printer, Label GX4200i, 203 dpi, 5 inch color touchscreen	30 lb	$2,635.00
GX4300i			
222250	Printer, Label GX4300I, 300 dpi, 5 inch color touchscreen	30 lb	$2,745.00

Options/Accessories

Part #	Description	Price
225332	Wi-Fi module	$250.00
Label Stock/Ribbon (W × L)		
21776	Direct thermal, 3 × 3 in, 8 in diameter with perf., 2,000/roll	$77.00/roll
150921	Direct thermal, 4 × 6 in, 6 in diameter with perf., 1,000/roll	$40.00/roll
25975	Direct thermal, 4.25 × 2.5 in, 6 in diameter with perf., 1,095/roll	$30.75/roll
21788	Thermal transfer, 4 × 6 in, 8 in diameter, 1,000/roll	$24.00/roll
20573	Thermal transfer, 4 × 6.5 in, 8 in diameter, 900/roll	$25.00/roll
34056	Ribbon, black, 4 in, 1,181 ft, wax	$30.50/roll
126629	Thermal kit, (4) 4 × 4 in labels, (2) 4 in ribbons and 1 cleaning card	$187.00
Cables		
41276	DB9 male RS-232 serial data cable with blunt end (Rice Lake indicators)	$77.00
64794	DB9 RS-232 serial data cable with DB9F to DB9M	$69.00
37527	6 ft parallel cable	$37.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
Printheads		
225309	Printhead, 203 dpi	$315.00
225310	Printhead, 300 dpi	$450.00

Specifications

Print Speed:
GX4200i: up to 16 ips
GX4300i: up to 12 ips

Print Width:
4.09 in

Print Length:
GX4200i: 0.16 to 279.53 in
GX4300i: 0.16 to 125.98 in

Media:
Types: Continuous form, gap labels, black mark sensing, and punched hole; label length set by auto sensing or programming
Thickness: Min. 0.0024 in - Max. 0.01 in
Label Roll Diameter: Max. 8 in
Core Diameter: Min. 1.5 in - Max. 3 in

Printer Language:
EZPL, GEPL, GZPL, GDPL auto switch

Resident Fonts:
Bitmap fonts 8 times expandable in horizontal and vertical directions
TTF fonts: (Bold / Italic / Underline) 0°, 90°, 180°, 270° rotatable
Internal TTF Fonts x 5: Traditional Chinese, Simplified Chinese, Japanese, Korean, Western languages

1-D Bar Codes:
China Postal Code, Codabar, Code 11, Code 32, Code 39, Code 93, Code 128 (subset A, B, C), EAN-8/EAN-13 (with 2 & 5 digits extension), EAN 128, FIM, German Post Code, GS1 DataBar, HIBC, Industrial 2 of 5, Interleaved 2-of-5 (I 2 of 5), Interleaved 2-of-5 with Shipping Bearer Bars, ISBT-128, ITF 14, Japanese Postnet, Logmars, MSI, Postnet, Plessey, Planet 11 & 13 digit, RPS 128, Standard 2 of 5, Telepen, Matrix 2 of 5, UPC-A/UPC-E (with 2 or 5 digit extension), UCC/EAN-128 K-Mart, Random Weight and Pharmacode

2-D Bar Codes:
Aztec code, Code 49, Codablock F, Datamatrix code, MaxiCode, Micro PDF417, Micro QR code, PDF417, QR Code, TLC 39, GS1 Composite, DotCode, Marco PDF 417

Memory:
256 MB flash; 256 MB SDRAM

Interfaces:
USB 2.0 (Type B)
Serial Port (RS-232)
Ethernet 10/100 Mbps
USB Host (A-Type)

Power:
Auto Switching 100 to 240 VAC, 50/60 Hz

Resolution:
GX4200i: 203 dpi
GX4300i: 300 dpi

Temperature:
Operating: 41 °F to 104 °F (5 °C to 40 °C)
Storage: -4 °F to 140 °F (-20 °C to 60 °C)

Dimensions:
(L × W × H)
18 × 11 × 12 in
(460 × 269 × 309 mm)

Warranty:
Five-year limited

Approvals:
CE Listed
FCC Class B
cULus Listed

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GoDEX® ZX1200i+

Direct Thermal/Thermal Transfer Label Printer



Approvals

Standard Features

- Auto language emulations GDPL
- Free GoLabel design software for EZPL
- 32-bit MPU
- All-metal frame structure
- Various output options
- Supports high-volume printing jobs
- Full range adjustable media sensors

Part Number/Price

Part #	Description	Est. Weight	Price
209082	Printer, Label ZX1200i+ 203 dpi, color touchscreen	30 lb	$2,000.00
209083	Printer,Label ZX1300i+ 300 dpi, color touchscreen	30 lb	$2,300.00
209084	Printer,Label ZX1200i+ 203 dpi, color touchscreen with linternal rewind	30 lb	$2,300.00
209085	Printer,Label ZX1200i+ 203 dpi, color touchscreen with internal rewind, and Wi-Fi	30 lb	$2,500.00

Options/Accessories

Part #	Description	Price
225332	Wi-Fi module	$250.00
Label Stock/Ribbon (W × L)		
21776	Direct thermal, 3 × 3 in, 8 in diameter with perf., 2,000/roll	$77.00/roll
150921	Direct thermal, 4 × 6 in, 6 in diameter with perf., 1,000/roll	$40.00/roll
25975	Direct thermal, 4.25 × 2.5 in, 6 in diameter with perf., 1,095/roll	$30.75/roll
21788	Thermal transfer, 4 × 6 in, 8 in diameter, 1,000/roll	$24.00/roll
20573	Thermal transfer, 4 × 6.5 in, 8 in diameter, 900/roll	$25.00/roll
34056	Ribbon, black, 4 in, 1,181 ft, wax	$30.50/roll
126629	Thermal kit, (4) 4 × 4 in labels, (2) 4 in ribbons and 1 cleaning card	$187.00
Cables		
41276	DB9 male RS-232 serial data cable with blunt end (Rice Lake indicators)	$77.00
64794	DB9 RS-232 serial data cable with DB9F to DB9M	$69.00
37527	6 ft parallel cable	$37.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
Printheads		
209107	Printhead, 203 dpi	$260.00

Specifications

Print Speed:
Up to 10 ips

Print Length:
Min: 0.16 in
Max: 279.53 in

Print Width:
4.09 in

Media:
Types: Continuous form, gap labels, black mark sensing, and punched hole; label length set by auto sensing or programming
Thickness: Min. 0.0024 in - Max. 0.01 in
Label Roll Diameter: Max. 8 in
Core Diameter: Min. 1.5 in - Max. 3 in

Printer Language:
EZPL, GEPL, GZPL, GDPL auto switch

Resident Fonts:
Bitmap fonts 8 times expandable in horizontal and vertical directions
TTF fonts: (Bold/Italic/Underline) 0°, 90°, 180°, 270° rotatable
internal TTF fonts x 5: traditional Chinese, simplified Chinese, Japanese, Korean, western languages

1-D Bar Codes:
China Postal Code, Codabar, Code 11, Code 32, Code 39, Code 93, Code 128 (subset A, B, C), EAN-8/EAN-13 (with 2 & 5 digits extension), EAN 128, FIM, German Post Code, GS1 DataBar, HIBC, Industrial 2 of 5 , Interleaved 2-of-5 (I 2 of 5), Interleaved 2-of-5 with Shipping Bearer Bars, ISBT-128, ITF 14, Japanese Postnet, Logmars, MSI, Postnet, Plessey, Planet 11 & 13 digit, RPS 128, Standard 2 of 5, Telepen, Matrix 2 of 5, UPC-A/UPC-E (with 2 or 5 digit extension), UCC/EAN-128 K-Mart and Random Weight

2-D Bar Codes:
Aztec code, Code 49,Codablock F, Datamatrix code, MaxiCode, Micro PDF417, Micro QR code, PDF417, QR code, TLC 39, GS1 Composite

Memory:
256 MB flash

Interfaces:
USB 2.0 (Type B)
Serial Port (RS-232)
Ethernet 10/100 Mbps
USB Host (A-Type)

Power:
Auto Switching 100/240 VAC, 50/60 Hz

Resolution:
ZX1200i+: 203 dpi
ZX1300i+: 300 dpi

Temperature:
Operating: 41 °F to 104 °F (5 °C to 40 °C)
Storage: -4 °F to 140 °F (-20 °C to 60 °C)

Dimensions:
(L × W × H)
18.3 × 10.6 × 12.3 in
(465 × 269 × 312 mm)

Warranty:
Three-year limited

Approvals:
CE
FCC Class B
cULus Listed

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GoDEX® ZX400i+ Series

Direct Thermal/Thermal Transfer



Approvals

Standard Features

- Free GoLabel II design software
- Auto language emulations GDPL
- 32-bit RISC CPU
- Die-cast frame

Part Number/Price

Part #	Description	Est. Weight	Price
ZX420i+			
222252	Printer, Label ZX420i+ 203 dpi, DT, TT, 6 IPS, USB, RS232, Ethernet, Color screen with navigation buttons	24 lb	$965.00
ZX430i+			
222253	Printer, Label ZX430i+ 300 dpi, DT, TT, 4 IPS, USB, RS232 Ethernet, Color Screen with push button navigation	24 lb	$1,040.00

Options/Accessories

Part #	Description	Price
Label Stock/Ribbon (W × L)		
21776	Direct thermal, 3 × 3 in, 8 in diameter with perf., 2,000/roll	$77.00/roll
150921	Direct thermal, 4 × 6 in, 6 in diameter with perf., 1,000/roll	$40.00/roll
25975	Direct thermal, 4.25 × 2.5 in, 6 in diameter with perf., 1,095/roll	$30.75/roll
21788	Thermal transfer, 4 × 6 in, 8 in diameter, 1,000/roll	$24.00/roll
20573	Thermal transfer, 4 × 6.5 in, 8 in diameter, 900/roll	$25.00/roll
34056	Ribbon, black, 4 in, 1,181 ft, wax	$30.50/roll
126629	Thermal kit, (4) 4 × 4 in labels, (2) 4 in ribbons and 1 cleaning card	$187.00
Cables		
41276	DB9 male RS-232 serial data cable with blunt end (Rice Lake indicators)	$77.00
64794	DB9 RS-232 serial data cable with DB9F to DB9M	$69.00
37527	6 ft parallel cable	$37.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
Printheads		
225395	Printhead, 203 dpi	$250.00
225396	Printhead, 300 dpi	$350.00

Specifications

Print Speed:
ZX420i+: Up to 6 ips
ZX430i+: Up to 4 ips

Print Width:
ZX420i+: 4.25 in
ZX430i+: 4.16 in

Print Length:
ZX420i+: 0.16 to 279.53 in
ZX430i+: 0.16 to 125.98 in

Media:
Types: Continuous form, gap labels, black mark sensing, and punched hole; label length set by auto sensing or programming
Thickness: Min. 0.0024 in - Max. 0.01 in
Label Roll Diameter: Max. 8 in
Core Diameter: Min. 1 in - Max. 3 in

Printer Language:
EZPL, GEPL, GZPL, GDPL auto switch

Resident Fonts:
Bitmap fonts 8 times expandable in horizontal and vertical directions
TTF fonts: (bold/italic/underline) 0°, 90°, 180°, 270° rotatable
Internal TTF fonts x 5: Traditional Chinese, Simplified Chinese, Japanese, Korean, Western languages

1-D Bar Codes:
China Postal Code, Codabar, Code 11, Code 32,Code 39, Code 93, Code 128 (subset A, B, C), EAN-8/EAN-13 (with 2 & 5 digits extension), EAN 128, FIM, German Post Code, GS1 DataBar, HIBC, Industrial 2 of 5, Interleaved 2-of-5 (I 2 of 5), Interleaved 2-of-5 with Shipping Bearer Bars, ISBT 128, ITF 14, Japanese Postnet, Logmars, MSI, Postnet, Plessey, Planet 11 & 13 digit, RPS 128, Standard 2 of 5, Telepen, Matrix 2 of 5, UPC-A/UPC-E (with 2 or 5 digit extension), UCC/EAN-128 K Mart, Random Weight and Pharmacode

2-D Bar Codes:
Aztec code, Code 49,Codablock F, Datamatrix code, MaxiCode, Micro PDF417, Micro QR code, PDF417,QR code, TLC 39, GS1 Composite, DotCode, Marco PDF 417

Memory:
128 MB flash; 128 MB SDRAM

Interfaces:
USB 2.0 (Type B)
Serial Port (RS-232)
Ethernet 10/100 Mbps
USB Host (A-Type)

Power:
Auto Switching 100 to 240 VAC, 50/60 Hz

Resolution:
ZX420i+: 203 dpi
ZX430i+: 300 dpi

Temperature:
Operating: 41 °F to 104 °F (5 °C to 40 °C)
Storage: -4 °F to 140 °F (-20 °C to 60 °C)

Dimensions:
(L × W × H)
15.9 × 10.2 × 10.8 in
(403 × 260 × 274 mm)

Warranty:
Three-year limited

Approvals:
CE
FCC Class B
cULus Listed

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Honeywell® PD45S

Direct Thermal/Thermal Transfer Label Printer



Approvals

Part Number/Price

Part #	Description	Est. Weight	Price
209079	Label printer, PD45S thermal transfer, 203 dpi, 115/230 VAC Requires power cord 15438 (sold separately)	27 lb	$2,420.00
209080	Label printer, PD45S thermal transfer, 203 dpi, 115/230 VAC, with peel and present, internal rewind Requires power cord 15438 (sold separately)	27 lb	$3,025.00
209081	Label printer, PD45S thermal transfer, 300 dpi, 115/230 VAC, with peel and present, internal rewind Requires power cord 15438 (sold separately)	27 lb	$3,146.00

Options/Accessories

Part #	Description	Price
15438	US power cord	$35.00
35664	Pre-saturated cleaning cards, 4 × 6 in 25/box	$60.00
93181	Film, printhead cleaning 4 in wide, 3/box	$21.50
Label Stock/Ribbon (W × L)		
21776	Direct thermal, 3 × 3 in, 8 in diameter with perf., 2,000/roll	$77.00/roll
150921	Direct thermal, 4 × 6 in, 6 in diameter with perf., 1,000/roll	$40.00/roll
25975	Direct thermal, 4.25 × 2.5 in, 6 in diameter with perf., 1,095/roll	$30.75/roll
21788	Thermal transfer, 4 × 6 in, 8 in diameter, 1,000/roll	$24.00/roll
20573	Thermal transfer, 4 × 6.5 in, 8 in diameter, 900/roll	$25.00/roll
34056	Ribbon, black, 4 in, 1,181 ft, wax	$30.50/roll
126629	Thermal kit, (4) 4 × 4 in labels, (2) 4 in ribbons and 1 cleaning card	$187.00
Cables		
41276	DB9 male RS-232 serial data cable with blunt end (Rice Lake indicators)	$77.00
64794	DB9 RS-232 serial data cable with DB9F to DB9M	$69.00
37527	6 ft parallel cable	$37.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
Printheads		
209251	Printhead 203 dpi	$685.00
209252	Printhead 300 dpi	$758.00

Standard Features

(REPLACING M-CLASS PRINTERS)

- 203 dpi or 300 dpi
- Serial, USB, wired TCP/IP
- Real-time clock
- Color graphical display

Specifications

Print Speed:
203 dpi: 2 to 10 ips
300 dpi: 2 to 8 ips

Print Length:
0.25 to 99 in (6 to 2,475 mm)

Supply Roll Capacity:
8 in (203 mm) OD on 1.5 to 3.0 in (38 to 76.2 mm) cores
Fanfold stock accepted from rear and bottom of printer

Bar Code Modulus:
5 to 55 mil "X" dimension in picket fence or ladder orientations

Media Width:
0.75 to 4.5 in (17 to 114 mm)

Media Type:
Roll fed or fan-fold materials, die-cut or continuous labels; perforated or continuous tag/ticket stock

Media Thickness:
0.0025 to .01 in (0.0635 to 0.254 mm)

Ribbons:
Industry standard ribbon widths: 1 in (25 mm)
Ribbon core: 1,476 ft (450 m) in length

Bar Codes:
Code 3 of 9, UPC-A, UPC-E, Interleaved 2 of 5, Code 128, EAN-8, EAN-13, HIBC, Codabar, Plessey, UPC 2 and 5 digit addendums, Code 93, Postnet, UCC/EAN Code 128, Telepen, UPS MaxiCode, FIM, PDF417, USD-8, Datamatrix, QR Code, Aztec, TLC 39, Micro PDF417, RSS

Graphics Support:
.PCX, .BMP and .IMG files

Memory:
128 MB RAM

Power Source:
Auto-sensing 90 to 132 VAC/180 to 264 VAC
47 /63 Hz

Temperature:
Operating:
40 °F to 95 °F (4 °C to 35 °C)

Dimensions:
(L x H x W)
17.24 × 10.63 × 9.80 in

Warranty:
One-year limited
Printhead (original):
One-year or 1 million linear inches
Printhead (replacement): 90 days

Approvals:
CE Listed
FCC
UL Listed
CSA

Honeywell® PM45

Direct Thermal/Thermal Transfer Label Printer



Icon LED version (no display)

Approvals

CE UL LISTED

Part Number/Price

Part #	Description	Est. Weight	Price
208559	PM45A, icon display, Ethernet, fixed hanger, DT, 203 dpi, US power cord	51 lb	$3,262.00
208560	PM45A, icon display, Ethernet, fixed hanger, TT, 203 dpi, US power cord	51 lb	$2,607.00
208561	PM45A, full touch display, Ethernet, fixed hanger, TT, 203 dpi, US power cord	51 lb	$3,049.00
208562	PM45A, full touch display, Ethernet, fixed hanger, rewinder + label taken sense, TT, 203 dpi, US power cord	51 lb	$3,472.00
208563	PM45A, full touch display, Ethernet, Bluetooth®, Wi-Fi NA, fixed hanger, TT, 203 dpi, US power cord	51 lb	$3,465.00
208564	PM45A, icon display, Ethernet, fixed hanger, TT, 300 dpi, US power cord	51 lb	$3,557.00
208565	PM45A, full touch display, Ethernet, fixed hanger, TT, 300 dpi, US power cord	51 lb	$3,705.00
208566	PM45A, full touch display, Ethernet, fixed hanger, rewinder + label taken sense, TT, 300 dpi, US power cord	51 lb	$4,010.00
208567	PM45A, full touch display, Ethernet, Bluetooth®, Wi-Fi NA, fixed hanger, TT, 300 dpi, US power cord	51 lb	$4,446.00

Options/Accessories

Part #	Description	Price
207889	Honeywell® WLAN 802.11 option card	$530.00
68517	External rewinder/unrewinder DMX	$495.00
214842	Standard cutter kit for 10 mil stock	$1,104.00
Label Stock/Ribbon (W × L)		
21776	Direct thermal, 3 × 3 in, 8 in diameter with perf., 2,000/roll	$77.00/roll
150921	Direct thermal, 4 × 6 in, 8 in diameter with perf., 1,000/roll	$40.00/roll
25975	Direct thermal, 4.25 × 2.5 in, 6 in diameter with perf., 1,095/roll	$30.75/roll
21788	Thermal transfer, 4 × 6 in, 8 in diameter, 1,000/roll	$24.00/roll
20573	Thermal transfer, 4 × 6.5 in, 8 in diameter, 900/roll	$25.00/roll
126629	Thermal kit, (4) 4 × 4 in labels, (2) 4 in ribbons and 1 cleaning card	$187.00
34056	Ribbon (black), 4 in, 1,181 ft, wax	$30.50/roll
Cables		
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable (Rice Lake indicators)	$70.00
41276	DB9M cable to blunt end, 9-pin (Rice Lake indicators)	$77.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
64794	DB9F to DB9M RS-232 cable	$69.00
Printheads		
211645	Printhead, 203 dpi	$825.00
211646	Printhead, 300 dpi	$826.00

Standard Features

(REPLACING I-CLASS PRINTERS)

- Two types of user interfaces, touchscreen display or icon LEDs (no display)
- PrintSet MC support for systems settings and configuration (required for Icon LED model)
- Opintel support for print optimization and firmware upgrades
- Smart Media calibration detects printing method, media type and length
- Enhance security with secured flashing
- Internal rewinder
- Label tear sensor
- Larger ribbon collapsible core for easy ribbon removal
- Ethernet/USB/serial
- USB host port for connecting storage devices, scanners, or keyboards
- USB device port to connect to a PC
- Wide range of printer accessories
- US power cord

Specifications

Print Speed:
203 dpi: 2 to 14 ips
300 dpi: 2 to 12 ips

Print Length:
0.25 to 99 in (6 to 247 mm)

Supply Roll Capacity:
Maximum 8.375 in diameter on 3 in core

Media Width:
0.79 to 4.5 in

Media Type:
Tag, label, ribbon

Media Thickness:
0.003 to 0.01 in

Ribbons (Optional):
2 in core, up to 4.33 in wide

Printer Command Language:
WMS, FP, DPL, IPL, ZPL II, XML, DP

Bar Codes:
SCC-14, HIBC 39, EAN-13, HIBC 128, ITF-14, EAN-128, GS1 Databar Expanded, ISBT 128, Code 39, EAN-8, Code 128, GS1-128, UPC-E, UPC-A, Interleavened 2 of 5, RSS14E, ISBT Data Matrix, Data Matrix

Graphics Support:
PNG, GIF, PCX, BMP

Memory:
256 MB Flash/1 GB Ram

Interfaces:
USB 2.0 Host (x2), USB 2.0 Device, Ethernet 10/100 Mbps, RS-232 (up to 115.2 KB/s)

Power Source:
100 to 240 VAC, 50/60 Hz

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40 °C)

Dimensions:
(L × W × H)
19.0 × 11.2 × 11.6 in

Warranty:
One-year limited
Printhead (original):
One-year or 1 million linear inches
Printhead (replacement): 90 days

Approvals:
CE Listed
UL Listed

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Honeywell® PX940

Direct Thermal/Thermal Transfer Label Printer



Part Number/Price

Part #	Description	Est. Weight	Price
207885	Label printer, PX940 direct thermal/thermal transfer 203 dpi	51 lb	$4,399.00
207886	Label printer, PX940 direct thermal/thermal transfer 300 dpi	51 lb	$4,727.00

Options/Accessories

Part #	Description	Price
207889	Honeywell® WLAN 802.11 option card	$530.00
68517	External rewinder/unrewinder DMX	$495.00
Label Stock		
21776	Direct thermal, 3 × 3 in, 8 in diameter with perf., 2,000/roll	$77.00/roll
150921	Direct thermal, 4 × 6 in, 6 in diameter with perf., 460/roll	$40.00/roll
25975	Direct thermal, 4.25 × 2.5 in, 6 in diameter with perf., 1,095/roll	$30.75/roll
21788	Thermal transfer, 4 × 6 in, 8 in diameter, 1,000/roll	$24.00/roll
20573	Thermal transfer, 4 × 6.5 in, 8 in diameter, 900/roll	$25.00/roll
126629	Thermal kit, (4) 4 in labels, (2) 4 in ribbons and 1 cleaning card	$187.00
34056	Ribbon (black), 4 in, 1,181 ft wax	$30.50/roll
Cables		
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable (Rice Lake indicators)	$70.00
41276	DB9M cable to blunt end, 9-pin (Rice Lake indicators)	$77.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
64794	RS-232 DB9FM/M null modem	$69.00
Printheads		
207887	Printhead 203 dpi	$840.00
207888	Printhead 300 dpi	$961.00

Standard Features

(REPLACING H-CLASS PRINTERS)

- Full-touch display
- Internal rewinder
- US power cord
- Ethernet/USB/serial
- Label tear sensor

Specifications

Print Speed:
203 dpi: 2 to 14 ips
300 dpi: 2 to 12 ips

Print Length:
0.25 to 99 in (6 to 247 mm)

Supply Roll Capacity:
Maximum 8.375 in diameter on 3 in core

Media Width:
0.79 to 4.5 in

Media Type:
Tag, label, ribbon

Media Thickness:
0.003 to 0.01 in

Ribbons (Optional):
2 in core, up to 4.33 in wide

Printer Command Language:
WMS, FP, DPL, IPL, ZPL II, XML, DP

Bar Codes:
SCC-14, HIBC 39, EAN-13, HIBC 128, ITF-14, EAN-128, GS1 Databar Expanded, ISBT 128, Code 39, EAN-8, Code 128, GS1-128, UPC-E, UPC-A, Interleavened 2 of 5, RSS14E, ISBT Data Matrix, Data Matrix

Graphics Support:
PNG, GIF, PCX, BMP

Memory:
256 MB flash / 1 GB ram

Interfaces:
USB 2.0 Host (x2), USB 2.0 Device, Ethernet 10/100 Mbps, RS-232 (up to 115.2 KB/s)

Power Source:
100 to 240 VAC, 50/60 Hz

Temperature:
Operating:
41 °F to 104 °F (5 °C to 40° C)

Dimensions:
(L × W × H)
15.70 × 10.25 × 19.92 in

Warranty:
One-year limited on parts
One-year or 1 million linear inches on original printhead

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EPSON® TM-T88VI

Direct Thermal POS Receipt Printer



Part Number/Price

Part #	Description	Est. Weight	Price
117233	TM-T88V, RS-232 and USB, PS-180 power supply	4 lb	$715.00

Options/Accessories

Part #	Description	Price
23112	Power supply, PS-180	$132.00
69917	One-ply thermal, (W) 3.125 in (75.44 mm, 2.97 in dia.) 7/16 core 230 ft	$6.00
83007	Parallel option connect-it cartridge	$73.00
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	$70.00
15547	Blunt end, 25-pin D-sub male RS-232 serial interface (Rice Lake indicators)	$70.00
Consult	Custom RS-232 serial cable	Consult
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
167545	TM88IV and V printhead	$135.00

Standard Features

- High-speed printing of both text and graphics
- True grayscale image printing
- Convenient drop-in paper loading, auto cutter and status LEDs
- ENERGY STAR® qualified
- Accommodates 58 mm or 80 mm paper roll
- Paper saving print features
- Improved cover protects from dust and debris
- OS support for Microsoft® Windows® 7, Vista, XP, 2000; Mac OS X v10.4, v10.5, v10.6 (Power PC/ Intel Processor) and Linux

Specifications

Print Speed:
300 mm/s (11.81 inch/s)

Interface:
Built-in USB and serial interface (DB-25F); built-in USB and Ethernet: or built-in USB

Paper Dimensions:
80 mm: 3.13 × 3.27 in diameter
58 mm: 2.26 × 3.27 in diameter

Paper Thickness:
55 to 80 µm

Power:
24 VDC ± 7%

Temperature:
Operating: 31 °F to 113 °F (5 °C to 45 °C)
Storage: 14 °F to 122 °F (-10 °C to 50 °C)

Reliability:
MTBF: 360,000 hours
MCBF: 70 million lines

Dimensions:
(L x W x H)
7.68 × 5.71 × 5.83 in
(195 × 145 × 148 mm)

Warranty:
One-year limited

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EPSON® TM-U220II

Tape Printer



Approvals

Part Number/Price

Part #	Description	Est. Weight	Price
232439	TM-U220IID RS232 Serial, Universal Power Supply	10 lb	$495.00
232440	TM-U220 IIB USB, Universal Power Supply	10 lb	$480.00
232441	TM-U220IIB Ethernet, Universal Power Supply	10 lb	$726.00

Options/Accessories

Part #	Description	Price
83007	Parallel option connect-it cartridge	$73.00
35666	Protective dust cover	$63.00
31296	Ink cartridge (purple)	$12.75
66499*	Ink cartridge (black and red)	$12.75
69916	One-ply bond paper roll, (W × L) 3 in × 150 ft (76 mm × 46 m) 3 in OD	$5.25/roll
69915	Two-ply bond paper roll, (W × L) 3 in × 90 ft (76 mm × 28 m), white/canary yellow 3 in OD	$7.50/roll
35667	Additional operating manual	$17.00
72309	Power supply, 12 VDC vehicle cigarette plug	$290.00
23112	115 VAC power supply (included with printer)	$132.00
Cables		
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	$70.00
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable (Rice Lake indicators)	$70.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection. Consult custom 20 mA/RS-232 serial interface cable $100.00. Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type. Standard cable length is 5 ft. $2.00 charge for each additional foot.

**Red/Black ribbon to turn on ASCI code-27,1,14,48 ON 27,1,14,49 OFF*

Standard Features

- Nine-pin dot matrix printhead
- High-speed printing
- Drop-in paper set and auto paper loading
- Automatically transmits changes in printer status
- Optional connect-it cartridges for parallel, USB, 10 Base-T
- Uses MI88D mechanism

Specifications

Print Speed:
Approx. 4.7 lines per seconds

Characters Per Line:
40 characters

Form Thickness:
0.002 to 0.003 in (0.06 to 0.09 mm)

Ribbon:
Cassette-type purple ribbon. Ribbon life is approximately 1.5 million characters (continuous prints)
Black ink also available

Serial Interfaces:
Baud rates: 4800, 9600
RS-232 compatible (DB-25F) or USB model

Parity:
7 or 8 bits, none, even or odd

Temperature:
Operating:
32 °F to 122 °F (0 °C to 50 °C)

Dimensions:
(L × W × H)
Type A: 11.30 × 6.30 × 6.20 in (286 × 160 × 158 mm)
Type D: 9.70 × 6.30 × 5.40 in (248 × 160 × 139 mm)

Warranty:
Two-year limited (includes printhead)

Approvals:
CE Listed
UL Listed
CSA

EPSON® TM-U295

Ticket Printer



Approvals

Part Number/Price

Part #	Description	Est. Weight	Price
23113	TM-U295 ticket printer, 115/230 VAC with power supply, cool white	9 lb	$693.00
35891	TM-U295 ticket printer, 115/230 VAC with power supply, 25 DB to blunt end cable, cool white	9 lb	$748.00
33816	TM-U295 ticket printer, 24 VDC, cool white	9 lb	$655.00

Options/Accessories

Part #	Description	Price
29582	Protective dust cover	$58.00
29584	Ink cartridge (purple) ERC-27	$12.75
29583	Ink cartridge (black) ERC-27B	$12.75
23112	Power supply	$132.00
34344	Additional operating manual	$21.00
72309	Power supply, 12 VDC vehicle cigarette plug	$290.00
Cables		
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	$70.00
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable (Rice Lake indicators)	$70.00
41279	25-pin D-sub male to 9-pin D-sub male, RS-232 with handshaking	$70.00
32810	25-pin D-sub male to 8-pin D-sub male, RS-232 with handshaking	$69.00
Consult*	Custom 20 mA/RS-232 serial interface cable	$100.00

**Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type.*

Standard cable length is 5 ft. $2.00 charge for each additional foot.

Standard Features

- High-speed printing
- Single copy or up to four-part multicopy ticket printing
- RS-232 serial communication

Note: Does not support double-strike commands.

Specifications

Print Speed:
1.9 to 2.3 lines per second (5 × 7 character, 3 dot line spacing)

Column Capacity:
35/42 columns

Characters Per Line:
35 standard font

Form Thickness:
Single-ply: 0.003 to 0.009 in (0.08 to 0.23 mm)
Copy paper: 0.003 to 0.014 in (0.08 to 0.36 mm)

Ribbon:
Cassette-type purple ribbon
Ribbon life is approximately 1.5 million characters (continuous prints)
Black ink also available

Serial Interfaces:
RS-232 (DB-25F) compatible

Baud Rates:
1200, 2400, 4800, 9600, selectable

Parity:
7 or 8 bits, none, even or odd

Dimensions:
(L × W × H)
7.49 × 7.08 × 3.99 in
(190.5 × 180 × 101.5 mm)

Warranty:
One-year limited
(includes printhead)

Approvals:
CE Listed
UL Listed
CSA

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EPSON® TM-U590

Ticket Printer



Approvals

Part Number/Price

Part #	Description	Est. Weight	Price
68502	TM-U590 ticket printer, 115/230 VAC power supply, cool white	12 lb	$1,265.00
128726	TM-U590 ticket printer, 115/230 VAC EU power supply, cool white	12 lb	$1,309.00
164391	TM-U590, 115/230 VAC power supply, cool white	12 lb	$1,452.00

Options/Accessories

Part #	Description	Price
68525	Ink cartridge (purple) ERC-31	$14.50
104145	Ink cartridge (black) ERC-31B	$14.50
23112	Power supply, U.S. version PS-180	$132.00
128746	Power supply, European version of PS-180	$145.00
111840	Protective dust cover	$69.00
68562	Additional operating manual	$14.00
68725	Technical manual	$41.00
72309	Power supply, 12 VDC vehicle cigarette plug	$290.00
Cables		
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	$70.00
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable (Rice Lake indicators)	$70.00
41279	25-pin D-sub male to nine-pin D-sub male, RS-232 with handshaking Interfaces to Rice Lake indicators with a serial port screw terminal connection	$70.00
32810	25-pin D-sub male to eight-pin D-sub male, RS-232 with handshaking Interfaces with DC-190, DC-100, DC-200, DC-300	$69.00
Consult	Custom 20 mA/RS-232 serial interface cable	$100.00

Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type.

Standard cable length is 5 ft. $2.00 charge for each additional foot.

Standard Features

- High-speed printing
- Single copy and up to five-part
- Wide slip capability of A4 size documents
- Remote-printing functionality sent via RS-232
- Supports double-strike commands

Specifications

Print Speed:
2.8 lines per second printing for 88 columns of print
4.9 lines per second printing for 40 columns of print

Print Width:
5.2 in

Paper Dimensions:
(L × W)
2.76 × 2.76 in/11.69 × 8.26 in
(70 × 70 mm/297 × 210 mm)

Paper Thickness:
0.003 to 0.014 in (0.09 to 0.36 mm)

Interfaces:
Serial: Bidirectional parallel, RS-232 (DB-25F)/ RS-485
USB

Power:
24 VDC ± 10%

Ribbon:
ERC-31 (purple)

Dimensions:
(L × W × H)
10.47 × 9.92 × 7.28 in
(266 × 252 × 185 mm)

Warranty:
One-year limited (includes printhead)

Approvals:
CE Listed
FCC
cULus Listed

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Star® SP742

Dot Matrix Printers



Approvals

Part Number/Price

Part #	Description	Est. Weight	Price
103142	SP742 RS-232 tape printer, cutter	9 lb	$520.00

Consult factory for models with a parallel interface.

Options/Accessories

Part #	Description	Price
69921	Ink ribbon (purple) SP500, SP2000, SP200, series	$12.75
103728	Ink ribbon (black), SP700 Series	$12.75
69916	One-ply paper roll, (W × D) 3 × 3 in, 150 ft roll, Bond, 3 in OD	$5.25
69915	Two-ply paper roll, (W × D) 3 × 3 in white/canary yellow, 90 ft roll, 3 in OD	$7.50
121331	Wall mount bracket, SP700 Series	$31.50
Cables		
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable (Rice Lake indicators)	$70.00
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	$70.00
72440	25-pin to nine-pin D-sub female cable	$67.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00

Standard Features

- Spill-proof cover
- Single-color highlights
- Power switch cover
- Internal universal power supply
- Serial interface
- Star and ESC/POS emulation
- Black mark sensor
- More than four lines per second print speed
- Auto cutter and tear bar versions
- Prints multiple copies (original and two copies)
- High reliability
- Prints graphics

Specifications

Print Speed:
13 RPM

Paper Width:
70 and 58 mm (with paper guide)

Power:
110 to 230 VAC

Connectivity:
Nine-pin serial (DB-25F), parallel, USB, Ethernet, Wi-Fi

Dimensions:
(L × W × H)
245 × 152 × 160 mm

Warranty:
Three-year limited

Approvals:
cULus Listed

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Star® TSP 847

Receipt Thermal Printer



Part Number/Price

Part #	Description	Est. Weight	Price
107617	TSP847D-24 line receipt printer (requires power supply)	5 lb	$725.00

Options/Accessories

Part #	Description	Price
69903	Power supply, PS-60-24A	$105.00
72309	Power supply, 12 VDC with car adapter	$290.00
107618	Thermal paper 4.4 in wide, 4 in OD	$20.00
Cables		
15547	Blunt-end 25-pin D-sub male RS-232	$70.00
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable (Rice Lake indicators)	$70.00
72440	25-pin male to nine-pin female	$67.00

Standard Features

- Direct thermal
- Small desktop footprint
- Jam-proof patented cutter with full or partial cut
- Wide area printing
- Zoom raster drive allows letter-sized documents to be printed in 4.4 format
- Logo storage capability

Specifications

Print Speed:
1,200 dots per second (150 mm/sec)

Paper Width:
Max 104 mm

Resolution:
203 dpi

Bar Codes:
Code 39, Interleaved 2 of 5, JAN/EAN/UPC, Code 128, Code 93, Coderbar, GS1-128

Roll Paper:
Paper width: 111.5 mm (4.4 in)
Thickness: 65 to 150 mm
Diameter: 4 in

Interface:
RS-232 serial (DB-25F)

Temperature:
Operating:
41 °F to 113 °F (5 °C to 45 °C)

Dimensions:
(W × D × H)
7 × 8.4 × 5.8 in
(180 × 213 × 148 mm)

Warranty:
Three-year limited

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Star® TSP743 II

Direct Thermal Printer



Approvals

Standard Features

- Two-color printing (software enabled)
- Small footprint
- Easy load "drop-in and print" paper loading
- Adjustable paper width
- Logo storage utility for easy logo data
- Drawer kickout device function
- Cutter
- Easy to change "cartridge-type interface" from RS-232 (DB-25F) to parallel

Part Number/Price

Part #	Description	Est. Weight	Price
69907	*TSP743 II, RS-232 with power supply, 115/230 VAC	8 lb	$630.00
69908	*TSP743 II, RS-232 only, 24 VDC	8 lb	$630.00
85929	*TSP743 II, parallel without power supply	8 lb	$630.00

** If using for labels with black mark, request printer to be configured by Rice Lake Weighing Systems*

Options/Accessories

Part #	Description	Price
TSP654		
69903	Power supply, PS-60-24A	$105.00
69917	One-ply thermal, (W) 3.125 in (75.44 mm, 2.97 in dia.) 7/16 in core 230 ft	$6.00
107041	MaxStick receipt paper for TSP654 3 1/8 in wide 150 ft long adhesive strip	$18.75
72309	Power supply, 12 VDC with vehicle cigarette lighter	$290.00
71355	Parallel cartridge option	$63.00
TSP743		
69919	Wall mount bracket	$84.00
70598	Label, DTL, (W × L × D) 3 × 1 × 4 in, with black line timing mark 1,600 labels/roll	$26.50
70597	Label, DTL, (W × L × D) 3 × 2 × 4 in, with black line timing mark 900 labels/roll	$26.50
Cables		
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable (Rice Lake indicators)	$70.00
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	$70.00
72440	25-pin to nine-pin D-sub female cable	$67.00

Specifications

Print Speed:
7 in (177.8 mm) per second,
60 lines per second at 3 mm per line
(180 mm/sec)

Print Width:
2.83 in (80 mm)
Optional: 2.05 in (52 mm),
3.15 in (80 mm)

Resolution:
203 dpi (8 dots/mm)

Bar Codes:
UPC-A/E, JAN/EAN-8/13, Code 39/93/128,
Codabar (NW7)

Paper Width:
Adjustable 3.15 in (80 mm)
Optional: 3.25 in (82.5 mm)

Paper Thickness:
0.003 to 0.0 06 in (0.065 to 0.150 mm)

Roll Diameter:
3.5 in (90 mm)

Paper Roll Core:
0.50 to 1.00 in (12 to 25.4 mm)

Printer Reliability:
60 million lines MCBF (CRT)

Interface:
RS-232 serial DB-25F

Temperature:
Operating:
41 °F to 113 °F (5 °C to 45 °C)

Dimensions:
(W × H × D)
5.79 × 5.83 × 8.39 in
(147 × 148 × 213 mm)

Warranty:
Parts: Three-year limited
Printhead: One-year limited

Approvals:
FCC
cULus Listed

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Zebra® ZD411

Direct Thermal/Thermal Transfer Label Printer



Part Number/Price

Part #	Description	Est. Weight	Price
216767	ZD411, direct thermal, USB/Ethernet/Bluetooth, 120 VAC U.S. power cord	3 lb	$500.00
219364	ZD411, thermal transfer, USB, Ethernet, BT, US 120 VAC	3 lb	$645.00

Parallel and Ethernet models available by special request

Options/Accessories

Part #	Description	Price
212815	RS-232 option card, compatible with ZD411 and ZD421 (field installable)	$29.00
38941	Cleaning pens for open printhead printers, 12/box	$67.00
Label Stock/Ribbon		
110346	Direct thermal, (W × L × D) 1.2 × .85 × 5 in with perf., 2,700/LPR	$17.00/roll
110347	Direct thermal, (W × L × D) 2.25 × 1.25 × 5 in with perf., 2,100/LPR	$17.00/roll
40332	Direct thermal, (W × L × D) 2.25 × 2 × 5 in with perf., 1,445/LPR	$17.00/roll
110348	Direct thermal, (W × L × D) 2.25 × 3 × 5 in with perf., 950/LPR	$18.00/roll
110349	Direct thermal, (W × L × D) 2.25 × 4 × 5 in with perf., 700/LPR	$17.00/roll
65617	Direct thermal, (W × L × D) 2.25 × 4.5 × 5 in with perf., 600/LPR	$17.50/roll
126092	Thermal paper, (W × D) 2 × 5 in, 6 rolls/case	$96.00/case
207358	Ribbon, wax/general purpose, 2.5 in × 243 ft, 0.5 in core	$9.00
Cables		
41276	Serial cable, 6 ft (DB9 male to blunt end) (Rice Lake indicators)	$77.00
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
64794	DB9 RS-232 cable DB9F to DB9M	$69.00

Standard Features

- Open ACCESSTM design for easy media loading
- Fully enclosed 5.0 in (127 mm) media compartment
- Double-walled ABS case construction
- EPL and ZPL® programming language, co-resident
- 32-bit RISC processor
- 8 MB SDRAM, 4 MB flash memory
- Zebra E3 print head energy control
- Auto-calibration of media
- Five resident expandable EPL2® fonts
- Auto-switching 100 V and 240 V power supply
- Linear and 2-D bar code symbologies
- Transmissive and reflective media sensing
- Head-up sensor
- Tear-off mode
- Certified Microsoft® Windows® drivers

Specifications

Resolution:
203 dpi (8 dpmm)

Print Length:
0.005 to 39.0 in (0.125 to 991 mm)

Print Speed:
2 to 4 in per second (ips)

Media:
Width: 1.00 to 2.36 in (25 to 60 mm)

Interface:
USB, Ethernet, and Bluetooth (Serial Optional)

Label Length:
Minimum: 0.38 in (9.7 mm)
1.0 in with optional cutter
Maximum 39 in (991 mm)
Inner Core: 1.0 in
Max roll diameter: 5 in
Sensing: gap, black line, notch
Type: roll-fed, fan fold, die cut or continuous with or without black mark, tag stock

Bar Codes:
Code 11, Code 39, Code 93, Code 128, UPC-A, UPC-E, EAN-8, EAN-13, EAN-14, UPC-A and UPC-E with EAN 2 or 5 digit extensions, PLessey, POSTNET, Standard 2 of 5, Industrial 2 of 5, Interleaved 2 of 5, LOGMARS, MSI, Codabar, and GS1 DataBar (formerly RSS), PDF417, MicroPDF417, Code 49, Maxicode, Codablock, Data Matrix, QR code, Aztec

Power:
100 to 240 VAC, 50/60 Hz, US power cord

Temperature:
Operating:
-40 °F to 105 °F (-40 °C to 40.5 °C)

Dimensions:
8.5 × 4.5 × 6.0 in
(220 × 115 × 151 mm)

Warranty:
One-year limited

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Zebra® ZD421

Direct Thermal/Thermal Transfer Label Printer



Part Number/Price

Part #	Description	Est. Weight	Price
Direct Thermal			
212409	ZD421d direct thermal printer, USB host	10 lb	$770.00
212410	ZD421d direct thermal printer, USB host, Ethernet LAN	10 lb	$970.00
Thermal Transfer			
212406	ZD421t thermal transfer printer, USB host	10 lb	$820.00
212411	ZD421t thermal transfer printer, USB host, Ethernet LAN	10 lb	$1,100.00

Options/Accessories

Part #	Description	Price
213390	Peeler option, ZD421t, front mount, field installable	$40.00
213356	Peeler option, ZD421d, front mount, field installable	$40.00
212815	RS-232 option, ZD421 field installable	$29.00
41276	Interface cable DB9 to blunt	$77.00
Label Stock/Ribbon		
192736	Ribbon core option (ZD421t) to accept 1 in ribbon cores (set of 2)	$26.50
192724	2000 wax ribbon (ZD421t) 2.52 in × 984 ft, 1 in core	$4.75
192725	2000 wax ribbon (ZD421t) 3.31 in × 984 ft, 1 in core	$6.50
192726	2000 wax ribbon (ZD421t) 4.23 in × 984 ft, 1 in core	$8.00
192727	5555 wax/resin ribbon (ZD421t) 2.52 in × 984 ft, 1 in core	$12.75
192728	5555 wax/resin ribbon (ZD421t) 3.31 in × 984 ft, 1 in core	$16.50
192729	5555 wax/resin ribbon (ZD421t) 4.33 in × 984 ft, 1 in core	$21.75
192730	5095 resin ribbon (ZD421t) 2.52 in × 984 ft, 1 in core	$26.50
192731	5095 resin ribbon (ZD421t) 3.31 in × 984 ft, 1 in core	$34.50
192732	5095 resin ribbon (ZD421t) 4.33 in × 984 ft, 1 in core	$45.00
207358	Ribbon, thermal transfer, 2.25 in, 243 ft, wax, 1/2 in core	$9.00

Standard Features

- Auto sense EPLZ or ZPL
- Tear bar

Options

- RS-232 (DB-9F)
- Peeler mechanism
- Models available with Ethernet

Specifications

Print Speed:
6 ips

Print Width:
4.09 in (104 mm)

Paper Width:
0.75 to 4.25 in (19 × 108 mm)

Paper Thickness:
0.003 to 0.0075 in (0.08 × 0.19 mm)

Paper Diameter:
5 in (127 mm)

Paper Roll Shaft:
0.5 and 1.0 in (13 × 25 mm) standard

Resolution:
203 dpi/8 dots per mm

Memory:
512 MB flash, 128 MB SDRAM

Ribbon Outside Diameter:
2.6 in

Ribbon Standard Length:
984 ft (300 m)

Ribbon Ratio:
1:4 media to ribbon

Ribbon Width:
0.585 to 4.65 in

Ribbon Core Inner Diameter:
1 in

Interface:
USB 2.0 host
Ethernet TCP/IP
Optional: RS-232 serial (DB-9F)

Temperature:
Operating: 40 °F to 105 °F
(4 °C to 41 °C)
Storage: -40 °F to 140 °F
(-40 ° C to 60 °C)

Dimensions:
(L × W × H)
ZD421: 8.69 × 6.98 × 5.93 in
ZD421T: 10.5 × 8.0 × 7.5 in

Warranty:
One-year limited

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Zebra® ZQ630

Direct Thermal Mobile Printer



Approvals

Standard Features

- Apple iOS, Android and Windows Mobile connectivity
- Direct thermal printing of bar codes, text and graphics
- CPCL, EPL™ and ZPL® programming languages
- Belt clip for unobtrusive and convenient printing
- Black mark using fixed center-position sensors
- Easy-to-use peel and present mode
- Label present sensor for issuing labels one at a time
- Tear bar for easy dispensing
- Center-loading media locking for variable roll widths
- Large, easy-to-read LCD control panel
- Color display can be customized
- Tolerance of multiple drops from 6 ft/1.8 m to concrete
- 400 MHz 32-bit ARM processor
- XML support
- Supports vertical and horizontal printing
- Printers can be used in any orientation
- QR bar code links to web-based help pages
- Label odometer
- NTP (Network Time Protocol) support via Wi-Fi or Ethernet

Specifications

Power:
PowerPrecision+ 6800 mAh Li-Ion rechargeable battery
Built-in battery charger

Paper:
Width: 4.40 in
Thickness: 2.3 to 5.5 mil tag stock or 6.5 mil label stock

Diameter:
2.6 in

Paper Roll Shaft:
0.75 in

Resolution:
203 dpi

Memory:
256 MB RAM/512 MB Flash

Bar Codes:
Codabar (NW-7), Code 39, Code 93, Code 128, EAN-8, EAN-13, UCC/EAN 128, UPC-A, UPC-E, PDF417, Micro PDF417, QR Code, TLC39

Print:
Length: 32 in

Speed:
4.5 ips

Interface:
USB, RS-232, Wi-Fi, Bluetooth®

Rating:
IP43 dust- and water-resistance rating (IP54 with soft case)

Temperature:
Operating:
-4 °F to 122 °F (-20 °C to 50 °C)

Warranty:
One-year

Approvals:
CE
TUV
CSA

Part Number/Price

Part #	Description	Est. Weight	Price
204373	ZQ630 kit, 4 in direct thermal printer, 203 dpi, USB/Wi-Fi/ Bluetooth® (Kit includes AC adapter, and USB cable)	3 lb	$1,415.00
204370	ZQ630 printer, 4 in direct thermal printer, 203 dpi, USB/Wi-Fi/ Bluetooth® (AC adapter and USB cable sold separately)	3 lb	$1,305.00

Options/Accessories

Part #	Description	Price
181233	Power supply, 12-24 VDC	$65.00
181236	Power supply, 15-60 VDC	$110.00
181234	RAM Handi-Mount kit	$365.00
188144	AC adapter	$110.00
188145	Receipt paper	$15.00
Label Stock/Ribbon		
181238	4 in × 4 in direct thermal labels, with Gap. 36 rolls per case	$473.00
181239	4 in × 2 in direct thermal labels, with Gap. 36 rolls per case	$473.00
Cables		
204372	USB cable, USB 2.0 A to MINIB	$24.00
41276	Serial cable, 6 ft (DB9 male to blunt end) (Rice Lake indicators)	$77.00

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DTL

Direct Thermal Label



Part Number/Price

Part #	Width × Length	Roll Dia.	Case Qty	Labels Per Roll	Perf.	Price
0.75 in Core Size						
110463	2.00 × 3.00 in	2 in	36	125	Yes	$104.00/case
1 in Core Size						
110346	1.20 × 0.85 in	5 in	6	2,710	Yes	$17.00/roll
110350	2.00 × 1.00 in	5 in	16	2,600	Yes	$20.00/roll
37354	2.25 × 1.25 in	2 in	12	260	Yes	$8.00/roll
40332	2.25 × 2.00 in	5 in	12	1,445	Yes	$17.00/roll
110348	2.25 × 3.00 in	5 in	16	950	Yes	$18.00/roll
37352	2.25 × 4.00 in	4 in	12	380	Yes	$10.25/roll
110349	2.25 × 4.00 in	5 in	12	700	Yes	$17.00/roll
65617	2.25 × 4.50 in	5 in	16	600	Yes	$17.50/roll
110347	2.25 × 1.25 in	5 in	16	2,100	Yes	$17.00/roll
156746	3.00 × 2.00 in	4 in	8	800	Yes	$22.00/roll
110352	3.00 × 3.00 in	5 in	8	950	Yes	$25.00/roll
110351	3.50 × 1.00 in	5 in	8	2,600	Yes	$29.00/roll
110353	4.00 × 1.00 in	5 in	8	2,500	Yes	$29.00/roll
37350	4.00 × 1.50 in	4 in	12	960	Yes	$33.00/roll
110354	4.00 × 1.50 in	5 in	8	1,800	Yes	$28.00/roll
110345	4.00 × 2.00 in	5 in	8	1,400	Yes	$28.00/roll
110355	4.00 × 2.50 in	5 in	8	1,100	Yes	$29.00/roll
53251	4.00 × 3.00 in	5 in	12	930	Yes	$32.00/roll
37348	4.00 × 3.00 in	2 in	12	110	Yes	$7.25/roll
40331	4.00 × 4.00 in	5 in	8	745	Yes	$34.00/roll
110356	4.00 × 5.00 in	5 in	8	500	Yes	$28.00/roll
37345	4.00 × 6.00 in	5 in	8	450	Yes	$24.00/roll
3 in Core Size						
21776	3.00 × 3.00 in	8 in	8	2,000	Yes	$77.00/roll
156745	3.00 × 5.00 in	8 in	8	1,200	Yes	$37.00/roll
91303	4.00 × 2.00 in	8 in	4	2,900	Yes	$75.00/roll
43937	4.00 × 4.00 in	8 in	4	1,500	Yes	$45.50/roll
25935	4.00 × 6.00 in	8 in	4	1,000	*	$41.00/roll
150921	4.00 × 6.00 in	8 in	4	1,000	Yes	$40.00/roll
25975	4.25 × 2.50 in	6 in	6	1,090	Yes	$30.75/roll
20531	4.50 × 2.50 in	8 in	4	2,500	*	$67.00/roll
Star Labels (1 in Core Size)						
70598	Black line, 3 × 1 in	4 in	10	1,600	No	$26.50/roll
70597	Black line, 3 × 2 in	4 in	10	900	No	$26.50/roll
Medical						
107134	1 × 11 in Datamax O-Neil SafeD-Band, wristband	5 in	4	350		$525.00/case

**Perforated liner available upon request at no charge. Minimum order quantities may apply.*
NOTE: 8 and 10 in diameter rolls are not Allegro compatible

Custom label quote form online at www.ricelake.com/customlabel

Standard Features

- Requires a 633 nm visible light diode (VLD) scanning device for bar codes
- All-temperature permanent acrylic adhesive with short repositioning time, withstands some contact with alcohol, blood, grease and water

Applications

- Recommended for paper, corrugated containers, folding cartons with exterior varnish, glass, metal, PVC, polyesters, acetate, cellophane XT polymer, polystyrene, and some treated polypropylenes and polyethylenes

Not recommended for applications with exposure to sunlight, fluorescent lamps or heat

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DTL-Plus



DTT

Standard Features

DTL Plus/DTT

- Top-coated white matte finish
- Requires a visible light (633 nm) scanning device for bar codes
- Withstands some contact with alcohol, blood, grease and water
- Not recommended for applications with exposure to sunlight, fluorescent lamps or heat

Part Number/Price

Part #	Description	Price
109340	3 in wide continuous tag stock, 7.2 mil, 3 in core, 8 in O.D., 480 ft wound out	$50.00
109298	4 in wide continuous tag stock, 7.2 mil, 3 in core, 8 in O.D., 480 ft wound out	$56.00
119829	5 in wide perforated, two up, fan folded stacks of 1,000	$1.00 each

DTL-SYN

Direct Thermal Label



Standard Features

DTL-SYN Synthetic label

- Top-coated white matte finish
- Requires a visible light (633 nm) scanning device for bar codes
- All-temperature permanent acrylic adhesive with short repositioning time
- Withstands some contact with alcohol, blood, grease and water

Part Number/Price

Part #	Description	Price
109448	3.25 × 3.25 in, 3 in core, 8 in O.D., 1,800 LPR, wound out, 208 roll minimum order	$119.00/roll

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TTL

Thermal Transfer Label



Standard Features

- All-temperature permanent acrylic adhesive
- Withstands some contact with alcohol, oil, grease, blood and water

Part Number/Price

Part #	Width × Length	Roll Dia.	Case Qty	Labels Per Roll	Perf.	Price
1 in Core Size						
110357	1.50 × 1.00 in	5 in	8	2,260	Yes	$15.00/roll
110362	2.00 × 1.00 in	5 in	8	2,260	Yes	$22.00/roll
110358	2.25 × .750 in	5 in	6	3,320	Yes	$20.00/roll
110360	2.25 × 3.00 in	5 in	6	930	Yes	$21.00/roll
110359	2.25 × 1.25 in	5 in	12	2,100	Yes	$17.00/roll
110365	4.00 × 2.00 in	5 in	6	1,370	Yes	$29.00/roll
53261	4.00 × 3.00 in	5 in	12	930	Yes	$29.00/roll
110366	4.00 × 4.00 in	5 in	12	700	Yes	$24.00/roll
110367	4.00 × 6.00 in	5 in	12	475	Yes	$34.00/roll
3 in Core Size						
21785	2.00 × 1.00 in	8 in	12	5,500	*	$15.55/roll
25945	2.00 × 1.00 in	6 in	12	2,550	*	$9.00/roll
66541	2.50 × 1.75 in	8 in	2	3,600		$96.00/roll
44347	2.50 × 1.50 in	8 in	8	3,600	No	$160.00/case
20671	3.00 × 3.00 in	8 in	8	2,000	*	$41.00/roll
48408	3.50 × 1.00 in	8 in	4	5,500	Yes	$130.50/case
156741	4.00 × 4.00 in	8 in	4	1,500	Yes	$33.00/roll
21788	4.00 × 6.00 in	8 in	4	1,000	*	$24.00/roll
20573	4.00 × 6.50 in	8 in	4	900	*	$25.00/roll
156742	4.00 × 6.00 in	8 in	4	1,000	Yes	$24.00/roll
20536	4.50 × 2.50 in	8 in	4	2,500	*	$41.50/roll
Kit, 4 label rolls, 2 ribbons, 1 cleaning card						
126629	4.00 × 4.00 in	8 in	1	1,500		$187.00/case

**Perforated liner available upon request at no charge. Minimum order quantities may apply.*

NOTE: 8 in diameter rolls are not Allegro compatible. Custom label quote form available online at www.ricelake.com/customlabel

NOTE: Not recommended for long-term exposure to water or other liquids

PRINTERS

Fantastock

Thermal Transfer Label

Part Number/Price

Part #	Width × Length	Roll Qty.	Case	Labels Per Roll	Price
1 in Core Size					
35417	Fantastock 4 × 2.88 in	4	8	500	$37.50/roll
126114	3 × 1 in TTL Fantastock	4	8	500	$53.00/roll
129377	4 × 2.5 in	5	8	1,650	$169.00/roll

NOTE: 8 in diameter rolls are not Allegro compatible

Standard Features

- Withstands some contact with alcohol, oil, grease, blood and water
- Suited for alphanumeric bar codes and graphics
- Top-coated white matte finish

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TTT Standard

Thermal Transfer Tag



Standard Features

- Withstands some contact with alcohol, oil, grease, blood and water
- Suited for alphanumerics, bar codes and graphics
- Top-coated white matte finish

Part Number/Price

Part #	Width × Length	Labels Per Roll/ft.	Perf.	Price
3 in Core Size				
89190	4 in wide continuous 7.5 pt	4,000 ft	No	$46.25/roll
107621	3.25 in wide × continuous 7.5 pt, 11 in O.D., 50 roll minimum order	1,010 ft	No	$83.00/roll
124757	4.5 × 2.5 in, with sensing notch 20 roll minimum order	2,300 ft	Yes	$51.50/roll

NOTE: Not recommended for long-term exposure to water or other liquids

PRINTERS

SDR Super Durable Ribbon



Standard Features

- 4.6 micron, thermal transfer resin-based ribbon
- Smudge and smear proof
- 1,182 ft (360.3 m) long (one ribbon prints two rolls of 8 in (203 mm), OD label or tag stock
- Avoid exposure to heat, humidity and sunlight during storage

Part Number/Price

Part #	Width × Length	Color	Case Qty	Datamax Comp	Zebra/Elton Desktop Comp	Zebra Ind. Comp.	Price
1/2 in Core Size Not for all 2 in wide printers							
37366	2.50 in × 242 ft	No	12	No	800009-002	No	$6.85/roll
126115	3.27 in × 243 ft	No	36	221967	No	No	$11.00/roll
37368	4.30 in × 242 ft	No	12	No	800009-004	No	$11.25/roll
92633	4.33 in × 360 ft	No	24	226757	No	No	$18.00/roll
1 in Core Size							
21772	4.00 in × 1182 ft	Yes	24	221716	No	No	$1,015.00/case
52343	4.30 in × 1476 ft	No	6	No	5095BK11045	Yes	$89.00/roll
129378	4.30 in × 984 ft	—	24	296639	—	—	$48.00/roll

Scannable colors include: Blue, Red, White, Gold

MaxWax™ GPR

General-Purpose Ribbon



Standard Features

- 4.6 micron thermal transfer wax/resin ribbon
- Smudge and scratch resistant
- 1,182 ft (360.3 m) long (one ribbon prints two rolls of 8 in (203.2 mm) OD label or tag stock)
- Avoid exposure to heat, humidity and sunlight during storage

Part Number/Price

Part #	Width × Length	Color	GoDex Comp.	Datamax Comp.	Zebra/Eltron Comp.	Zebra Industrial Comp.	Case Qty	Price
1/2 in Core Size Not for all 2 inch wide printers								
81212*	2.50 in × 244 ft	No		Z28GPRM064074	8000130-002	No	12	$8.00/roll
37362	2.50 in × 298 ft	No		226351	800008-002	No	36	$7.00/roll
35477	3.50 in × 360 ft	No		226455	No	Yes	12	$10.00/roll
37364	4.30 in × 298 ft	No		226357	800008-004	No	36	$12.50/roll
75895*	4.30 in × 244 ft	No		Z28GPRM110074	800130-104	No	12	$18.00/roll
35478	4.33 in × 360 ft	No		226457	No	Yes	12	$12.75/roll
53265	1.30 in × 298 ft	No		No	800008-001	No	36	$3.15/roll
1 in Core Size								
178965	4.30 in × 984 ft	No	GR4010				6	$33.00/roll
110537	2.50 in × 984 ft	No			ZEBGPRMO64300		24	$11.00/roll
34054	3.00 in × 1181 ft	Yes		226102	No	No	6	$17.25/roll
40787	4.30 in × 1189 ft	No		No	800010-004	Yes	6	$33.50/roll
110536	4.30 in × 984 ft	No		296143	NO	No	24	$16.25/roll
34058	4.50 in × 1182 ft	Yes		226100	No	No	6	$27.50/roll
42474	6.00 in × 1476 ft	Yes		224108	No	No	24	$42.90/roll
GPR Plus (for use with Kimdura Stock)								
53611**	1.57 in × 1476 ft	No		No	No	5095BK04045	6	$33.75/roll
20538	2.0 in × 1182 ft	No		222103	No	No	36	$8.40/roll
20539	3.00 in × 1182 ft	No		222102	No	No	6	$105.25/case
34056	4.00 in × 1182 ft	No		222116	No	No	24	$30.50/roll

Prices for black ribbon only.

Color ribbon—contact RLWS sales for prices and availability.

Scannable colors include: Silver, gold, green, blue, brown, purple, maroon, midnight blue, fuchsia, kelly green, royal blue, lavender

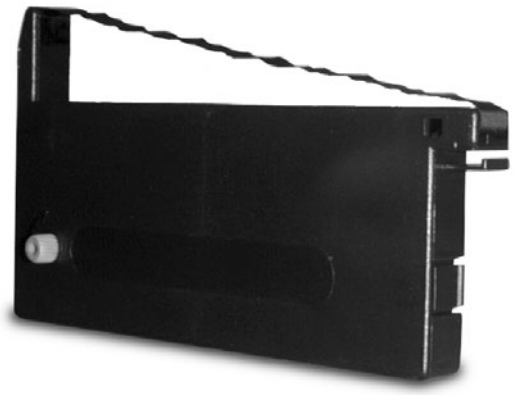
Additional colors available: Red, orange, yellow, white, pink, pumpkin

** Ribbon for TLP2844*

*** Resin Performance*

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Tape and Ticket Printer Impact Ribbons



Part Number/Price

Part #	Description	Price
Line Printer		
20664	Okidata 184 Turbo and 320 ribbon cartridge	$8.50
Tape Printer		
41902	Citizen CBM-750 red/black ribbon cartridge	$10.50
31296	Epson TM-U200/TM-U220 and TM-300 purple ink cartridge (ERC 30, 34)	$12.75
66499	Epson TM-U200/TM-U220 and TM-300 red/black ink cartridge	$12.75
20447	IDS-160/Star® DP8340 purple ribbon cartridge	$10.50
103728	Star SP700 black ribbon cartridge	$12.75
Tape Kiosk Printer		
69920	Star SP349 and SP312 Purple ribbon cartridge	$13.75
Ticket Printer		
29583	Epson® TM-U295 black ink cartridge	$12.75
29584	Epson TM-U295 purple ink cartridge (ERC 27)	$12.75
68525	Epson TM-U590 purple ink cartridge (ERC-31)	$14.50
20440	IDS-150A and IDS-152 purple ink ribbon	$26.50
20308	SP2200 and SP2000 black ink cartridge	$25.50
69921	Star SP298, SP2320 and SP2520 purple ribbon cartridge	$12.75
128031	TicketPress™ black ribbon cartridge	$25.25

Don't see a ribbon or paper roll you need? Send us the manufacturer name and model of the printer and we will provide you a quotation.

Standard Features

TicketPress:
- Cartridge-type
- Ribbon life approximately 3 million characters

SP2200 and SP2000:
- Cartridge-type
- Ribbon life is approximately 1 million standard characters

IDS-150A, IDS-152, and IDS-160:
- Inked spools

TM-U295, TM-U200, TM-300:
- Cassette-type
- TM-U295: Ribbon life is approx. 1.5 million standard characters
- TM-U200 and TM-300: Ribbon life is approx. 4 million characters (continuous printing)

Citizen® CBM-750 and Citizen® iDP-3111:
- Cassette-type
- CBM-750: Ribbon life is approx. 4 million lines (continuous printing) iDP-3111: Ribbon life is approx. 1 million lines (continuous printing)

Okidata 184 Turbo and 320:
- Self-inking
- Ribbon life is approximately 3 million characters

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Tape Printer Paper Supplies



Standard Features

IDS-150A, IDS-152, IDS-160, TM-U200, TM-300, and Citizen® CBM-750:

- One-ply paper roll (W × L): 3 × 150 ft (76.2 × 45.7 m)
- Two-ply paper roll (W × L): 3 × 90 ft (76.2 × 27.4 m)

Citizen® iDP-3111:

- One-ply paper roll (W): 2.25 in (57.1 mm)

Star®:

- One- and two-ply paper roll (W × L): 3 in × 3 ft (76.2 × 0.9 m)
- One-ply thermal paper roll (W × L): 3.125 in × 3.25 ft (76.2 × 0.99 m), 8 in roll diameter

Part Number/Price

Part #	Description	Price
IDS-150A, IDS-152, IDS-160, TM-U220, TM-300, and Citizen CBM-750		
69916	One-ply bond, (W × L) 3 in × 150 ft (76.2 mm × 45.7 m), 3 in dia., 1/2 in core	$5.25/roll
69915	Two-ply bond, (W × L) 3 in × 90 ft (76.2 mm × 27.4 m), 3 in dia, 1/2 in core white/ canary yellow	$7.50/roll
Citizen iDP-3111		
42870	One-ply bond, (W × L) 2.25 in × 150 ft (57.1 mm), 7/16 in core 2 7/8 in outer diameter	$6.00/roll
Star		
69916	One-ply bond, (W × L) 3 in × 150 ft (76.2 mm × 45.7 m), 3 in dia., 1/2 in core	$5.25/roll
69915	Two-ply bond, (W × L) 3 in × 90 ft (76.2 mm × 27.4 m), 3 in dia, 1/2 in core white/ canary yellow	$7.50/roll
69917	One-ply thermal, (W) 3.125 in (75.44 mm, 2.97 in dia.) 7/16 in core 230 ft	$6.00/roll
70083	One-ply thermal, (W) 3.23 in (82 mm, 3 in dia.), 8 in roll dia. (2,020 ft long) 1 1/2 in core	$35.00/roll
71214	One-ply plain paper, (W) 3.25 in (82.5 mm, 3 in dia.), 50 rolls per case, 3/8 in core	$100.00/case
105711	Two-ply plain paper, (W) 3.25 in, 50 per case, 3/8 in core 3 in outer diameter	$180.00/case
105712	Three-ply plain paper, (W) 3 in, 50 per case, 3/8 in core, 3 in outer diameter (white, canary, pink)	$192.00/case
102950	One-ply thermal, (W) 4.4 in, 6 in outer diameter, 1 in core, 930 ft roll	$42.50/roll
20448	One-ply bond, (W × L) 4.5 in × 165 ft, 7/16 in core, 3 in outer diameter	$9.50/roll
42672	Two-ply, (W × L) 4.5 in × 95 ft, 3 in outer diameter	$8.50/roll
70683	One-ply bond, (W × D) 4.5 × 3 in, sprocket feed, 140 ft	$13.00/roll
107618	One-ply thermal, (W) 10 mm (4.4 in, 4 in) outer diameter, 500 ft	$20.00/roll
102957	One-ply thermal, (W) 58 mm (2.28 in, 2 3/4 in) outer diameter, 1/2 in core	$4.25/roll
Epson		
105445	One-ply thermal, (W) 80 mm (3.1 in, 6 in) outer diameter, 710 ft/roll	$30.00/roll
105446	One-ply thermal, (W) 80 mm (3.1 in, 8 in) outer diameter, 1,268 ft/roll	$32.50/roll
75947	One-ply thermal, (W × L) 2.25 in × 85 ft, 1 7/8 in outer diameter, Mobilink, 1/2 in core	$6.50/roll
126092	One-ply receipt (W × L) 2 in × 574 ft, 1 in core , 5 in O.D., 6 rolls/case	$96.00/case
Kiosk Printers		
50426	One-ply, (W × D) 3.25 in × 6 in, 7/16 in core 950 ft	$29.00/roll
104940	One-ply thermal, (W × D) 112 mm × 5 in, 1 in core, 625 ft	$28.75/roll
Zebra Mobile		
105566	One-ply thermal, 2 in continuous 79 ft rolls, 2.5 in OD (36 per case)	$87.00/case
105565	One-ply thermal, 4 in continuous 79 ft rolls, 2.5 in OD (36 per case)	$160.00/case
Misc		
66653	One-ply thermal, (W × L) 80 mm (3.1 in × 455 ft, 5 in diameter for Swecoin, Star TUP 900)	$27.00/roll
76076	One-ply thermal, (W) 60 mm (2 3/8 in), 100 mm) outer diameter 40 mm core, wound out	$13.75/roll
73134	One-ply bond, (W) 1 3/4 in × 1-7/8 in outer diameter, 7/16 in core	$3.75/roll
47341	One-ply thermal, (W × L) 64 mm × 50 m, 1 9/16 in core	$6.00/roll
110463	(W × L) 2 × 3 in label, RW 220 or RW 420, 125 labels/roll, 2 in OD, 36 per case	$104.00/case
165865	Thermal paper, (W × D) 4 × 5 in, 6 rolls/case	$369.00/case
166916	Thermal paper, (W × D) 8.5 in × 565 ft, continuous, 4 rolls/case	$375.00/case

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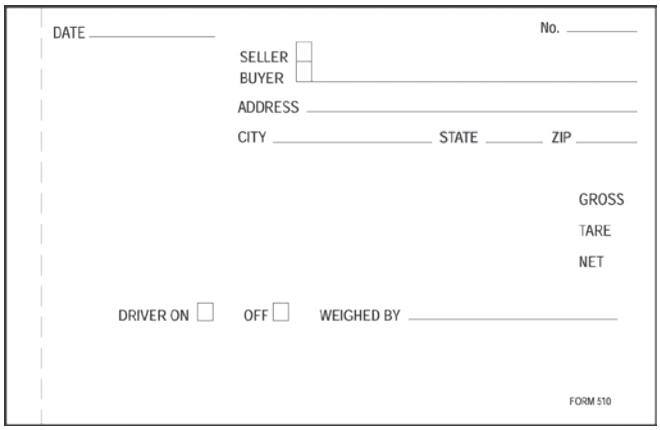
Electronic Scale Tickets

Standard Features

Hecon® Printers, EL522 & EL516 - 20266

- Triplicate interleaved
- Size (L × W): 7.875 × 4.25 in (200 × 127 mm)
- Order quantity: 500 per package
- Carbonless

20266

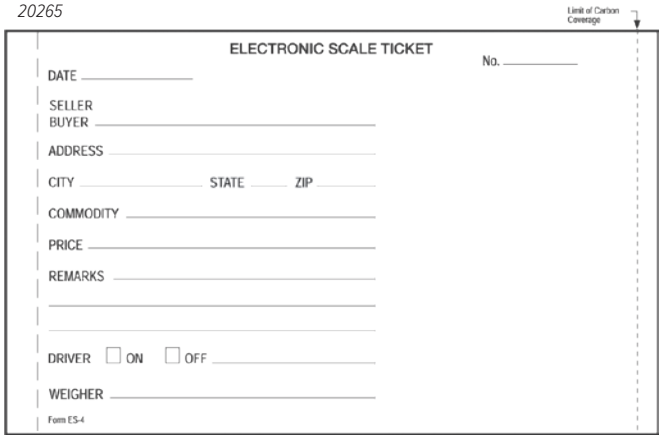


Standard Features

SP2200, SP2000 - 20265

- Triplicate interleaved, perforated and glued on one end
- Size (W × L): 5.5 × 9 in (139.7 × 228.6 mm)
- Order quantity: 500 per package
- Carbonless

20265



Standard Features

Rice Lake Scales - 71630 or 105182

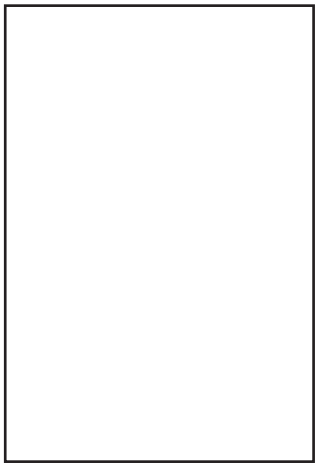
- Duplicate or triplicate
- Size (W × L): 4.25 × 7 in (107 × 177.8 mm)
- Attached at 4.25 side
- Order quantity: 500 per package
- Custom (duplicate): Add company name (min. order two packs)
- Custom (triplicate): Add company name (min. order two packs)
- Carbonless



Standard Features

Blank Scale Ticket - 22263

- Triplicate
- White, canary yellow and pink
- Size (L × W): 5.50 × 4.25 in (140 × 108 mm)
- Attached at 4.25 edge
- Order quantity: 100 per package
- Custom: Add company name (min. order of 1,000)
- Carbonless



Part Number/Price

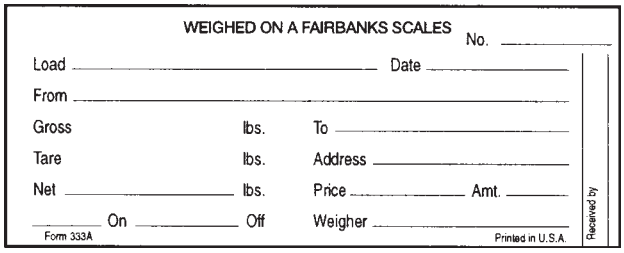
Part #	Description	Price
20266	Hecon Printers, EL522 and EL516, 500/pack	$110.40
20265	SP2200, SP2000, 500/pack	$114.00
71630	Rice Lake ticket, two part, 500/pack	$60.00
105182	Rice Lake ticket, three part, 500/pack white, canary yellow, pink	$86.50
22263	Blank scale ticket, 100/pack	$25.00 each

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Mechanical Scale Tickets

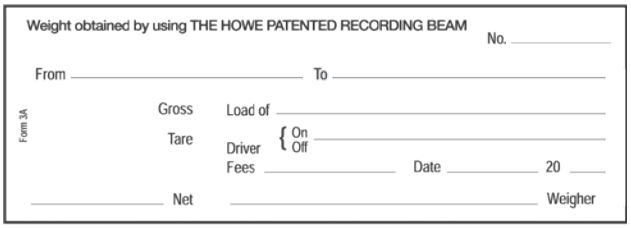
Standard Features

- **Fairbanks Scales® - 20260**
- Carbonless triplicate with 2 in (50.8 mm) tear-off flap
- Size (W × L): 4.75 × 1.875 in (120.7 × 47.6 mm)
- Order quantity: 500 per package



Standard Features

- **Howe Scales - 20261**
- Carbon triplicate with 2 in (50.8 mm) tear-off flap
- Size (W × L): 5.5 × 1.75 in (139.7 × 44.5 mm)
- Order quantity: 500 per package



Create Your Own Custom Ticket

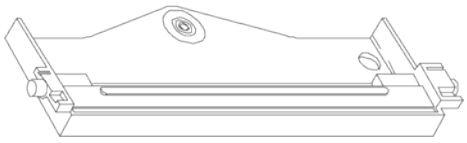
Standard Features

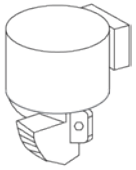
- Send us a copy of the existing custom format or drawing of a completely new one. Please specify number of carbon copies, dimensions, colors and text. Minimum order quantity may apply.

Part Number/Price

Part #	Description	Price
20260	Fairbanks scales, 500/pack	$78.00
20261	Howe scales, 500/pack	$78.00

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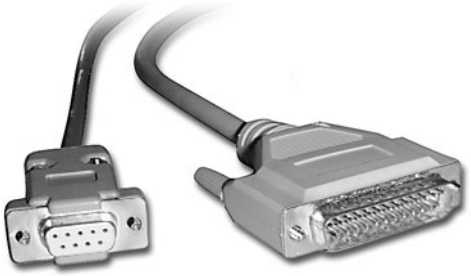


Part Number/Price

Part #	Description	Price
Label Printers		
78998	Eltron/Zebra® LP/TLP-2824 (2 in)	$175.00
78999	Eltron/Zebra® LP-2844 (4 in)	$205.00
79000	Eltron/Zebra® TLP-2844 (4 in)	$225.00
95375	Eltron/Zebra® Z4000, S4M (203 dpi)	$730.00
111091	Eltron/Zebra® Zebra GK,(203 dpi)	$210.00
107532	GoDex® DT2X printhead	$120.00
150743	GoDex® DT4xW printhead	$205.00
150746	GoDex® G500 printhead	$205.00
53939	Honeywell® I-4208 I-4210, I-4212 (203 dpi)	$475.00
210807	Honeywell® M-4210, 203 dpi	$1,287.00
96957	Honeywell® H-4212, 203 dpi	$475.00
112517	Honeywell® E4205 (e) (203 dpi)	$175.00
103368	Honeywell® M4206, (203 dpi)	$990.00
118183	Honeywell® Print engine A-class model 4212, 203 dpi	$475.00
Tape Printers		
118730	Epson® TM-U220	$135.00
Ticket Printers		
29535	Epson® TM-290/TM-U295	$315.00
116659	Epson® TM-U590	$315.00
68726	Epson® TM-U590 print mechanism	$979.00
35347	Rice Lake Weighing Systems SP2200	$300.00
72513	Star® SP298	$135.00

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Printer Cables



Part Number/Price

Part #	Description	Price
Interface Cables for TicketPress, SP-2200, TM-U295, TM-U590 and Star® Printers		
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	$70.00
15548	25-pin D-sub male to 25-pin D-sub male 20 mA serial interface cable (SP2200 only)	$70.00
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable (this is a kit, not a complete cable)	$70.00
Consult	Custom 20 mA/RS-232 serial interface cable	$95.00
Interface Cables for I-Class		
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	$70.00
Consult	Custom RS-232 interface cable	$95.00
Interface Cables for Desktops, GoDEX Models, Zebra, E-4203 and M-4206		
41276	DB9 male RS-232 cable to blunt end	$77.00
Straight Cable		
70056	DB9 male to DB9 female	$40.00
50749	DB9 female to DB9 female	$60.00
41279	DB25 male to DB9 male	$70.00
72440	DB25 male to DB9 female	$67.00
Null Modem Cable		
66535	DB9F to DB9 female, null modem	$48.00
64794	DB9 male to DB9 female	$69.00
USB Cable		
79074	USB-A (male) to USB-B (male) cable, 6 ft	$35.00
156806	USB-A (male) to USB-A (male) cable, 1 m	$35.00
156807	USB-A (male) to USB-A (male) cable, 3 m	$50.00
156808	USB-A (male) to USB-A (male) cable, 5 m	$60.00
156809	USB-A (male) to USB-B (male) cable, 1 m	$55.00
156815	USB-A (male) to USB-B (male) cable, 3 m	$55.00
156811	USB-A (male) to USB-B (male) cable, 5 m	$70.00
Ethernet Cable/RJ45		
72697	RJ45 to RJ45, 7 ft	$40.00
78860	RJ45 to RJ45, crossover 7 ft	$40.00
75594	RJ45 to nine-pin female	$70.00
156817	RJ45, 1 m	$35.00
156818	RJ45, 3 m	$42.00
156821	RJ45, 5 m	$50.00
Misc. Cables and Adapters		
22436	Blunt end, nine-pin D-sub female	$70.00
130213	Blunt end DB25 male	$58.00
165698	Female to male gender changer	$11.25
119064	Slimline, null modem gender changer, DB9 female/female	$12.50
130789	Null modem DB9 M/F	$14.50

Blunt-end cables interface to: UMC444, UMC555, UMC600, IQ700, IQ plus® 310A, IQ plus® 355, IQ plus® 390-DC, IQ plus® 510, IQ plus® 590-DC, IQ plus® 710, IQ plus® 800, and IQ plus® 810, 520 and 920i®

Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type. Standard cable length is 5 ft (1.5 m).

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Printer Dust Covers



Standard Features

- Tough, flexible transparent vinyl, constructed with heavy-duty stitching
- Loose fit allows for operation of switches or controls through the dust cover
- Available for most types of scale equipment

Protect your electronic scales, weight indicators and printers with a scale veil. Reduce costly repairs and down time due to moisture penetrating through instrument enclosures during cleanup or operation.

Part Number/Price

Model	Part #	Price
Epson		
TM290/295	**29582**	$58.00
TM-U200 TM-U220	**35666**	$63.00
TM-U590	**111840**	$69.00
Okidata		
Okidata 320/390	**21226**	$65.00

Custom veils and specials available; consult factory.

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Remote Displays / Scoreboards

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Remote Display or Weight Indicators

RD-232 ..... **900**
Remote Display

RD-300 ..... **901**
Remote Display

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LaserLight2™
Remote Display



Specifications

Display:
6-digit, 7-segment discrete red LED lamps
Contrast enhanced optical filtering lens
1 or 2 place decimal or comma indication
4 annunciators for GR, NT, lb, kg
4-inch red, green ball/arrow in stop/go model

Maximum Viewing Distance:
4 in: 100 ft (30 m)
6 in: 150 ft (46 m)

Input Interface:
RS-232, RS-485, 20 mA current loop (active or passive, switch selectable)

Output Interface:
Configurable echo out port or RS-232

Input Data Format:
Baud Rate: 1200, 2400, 4800, 9600 and 19200
Self-learning or software selectable

Character Format:
7 or 8 data bits; even, odd, or no parity;
1 or 2 stop bits, self-learning or software selectable

Update:
Continuous or out-of-motion only;
software selectable

Power Consumption:
AC voltages: 100/240 VAC; 50/60 Hz
4 in: 21 watt
6 in: 27 watt

Time:
12- or 24-hour format

Date:
US or ISO format

Rating/Material:
IP66 weathertight, mild steel, powder coated

Weight:
4-inch: 20 lb (9 kg)
6-inch: 25 lb (11 kg)

Temperature:
Operating:
-40 °F to 120 °F (-40 °C to 49 °C)

Warranty:
Two-year limited

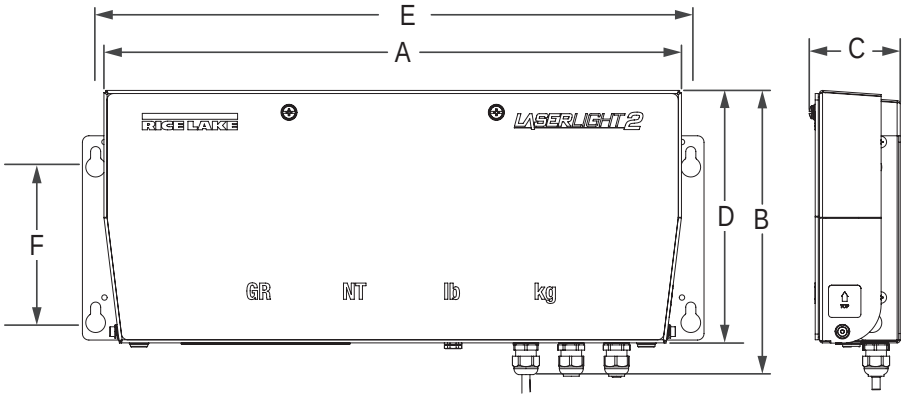
Dimensions

LaserLight2			
22-in Enclosure (Four-in Model)			
A	22.28 in (565 mm)	D	9.80 in (250 mm)
B	10.96 in (280 mm)	E	23.00 in (584 mm)
C	3.28 in (85 mm)	F	6.00 in (152 mm) 3/8 in bolt
31-in Enclosure (Six-in and Stop & Go Models)			
A	30.63 in (780 mm)	D	12.77 in (325 mm)
B	13.94 in (355 mm)	E	31.00 in (787 mm)
C	3.73 in (95 mm)	F	7.75 in (197 mm) 3/8 in bolt

(Flanges add 2.00 in width)

Standard Features

- Available with a 4 in (100 mm) or 6 in (150 mm) digit display
- Six high-intensity red digits (double-row discrete LED)
- Time and date displayed when scale is empty
- Auto Learn mode of communication protocols
- Hold displayed weight (demand input)
- Software selectable standstill mode for no updates while in motion
- Setting for 10 levels, daylight/night intensity
- Non-glare contrast filtered lens
- Mirror (reverse image) function
- Wall mounted with side flanges or with VESA mount
- Gore-Tex® breather vent inhibits internal moisture buildup
- Red, green and arrow lights in stop/go version, set with either digital input or serial command



REMOTE DISPLAYS / SCOREBOARD

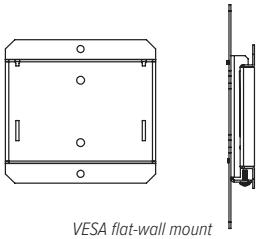
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Part Number/Price

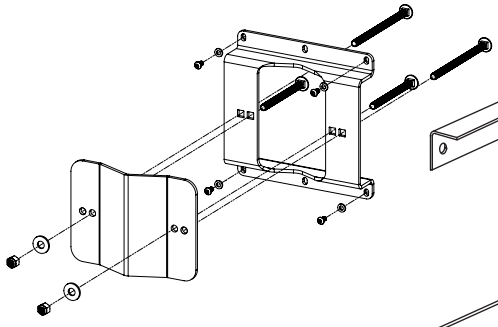
Part #	Description	Est. Weight	Price
Includes Flange Mount Hardware			
167091	LaserLight2 remote display 4-in (100 mm) includes PN 175305	20 lb	$2,015.00
167092	LaserLight2 remote display 6-in (150 mm) includes PN 175306	25 lb	$2,550.00
167093	LaserLight2 remote display stop/go 4-in (100 mm) includes PN 175306	25 lb	$2,550.00
175286	LaserLight2 remote display 4-in (100 mm) stainless steel includes PN 179910	20 lb	$2,400.00
187120	LaserLight2 remote display stop/go 4-in (100 mm) stainless steel includes PN 187124	25 lb	$2,975.00
Includes VESA Mount Hardware			
175860	LaserLight2 remote display 4-in (100 mm) includes PN 175213	20 lb	$2,040.00
175861	LaserLight2 remote display 6-in (150 mm) includes PN 175213	25 lb	$2,575.00
175862	LaserLight2 remote display stop/go 4-in (100 mm) includes PN 175213	25 lb	$2,575.00

Options/Accessories

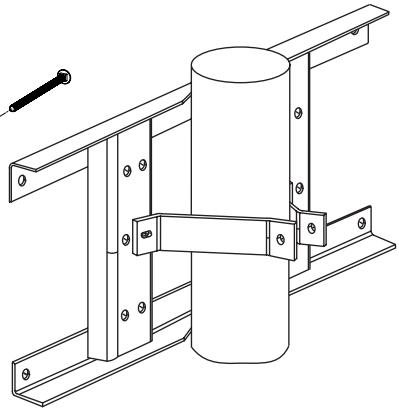
Part #	Description	Price
175052	Wireless interface, pair of ConnexLink Radios and mount	$835.00
214644	Wireless interface, single ConnexLink radio client kit	$495.00
175213	Mount bracket, VESA flat-wall option (included with VESA mounted remote)	$95.00
175305	Mount bracket, 4-in flange option (included with flange mounted remote)	$29.00
175306	Mount bracket, 6-in flange option (included with flange mounted remote)	$29.00
179910	Mount bracket, 4-in stainless steel flange option (included with flange mounted stainless steel remote)	$32.00
187124	Mount bracket, 6-in stainless steel flange option (included with flange mounted stainless steel remote)	$42.00
75856	Pole mount kit, 4-in flange option (24-in wide frame for 4-8 in dia. pole)	$280.00
77775	Pole mount kit, 6-in and 4-in stop/go flange option (32-in wide frame for 4-8 in dia. pole)	$280.00
177865	Pole mount kit, VESA flat-wall option mount for 2-6 inch pole	$90.00
178790	Offset kit (right or left flange mount) used with universal pole mount (requires PN 177865)	$82.00
181224	Visor for 22 in enclosure (not required for weather protection)	$190.00
181801	Visor for 31 in enclosure (not required for weather protection)	$205.00



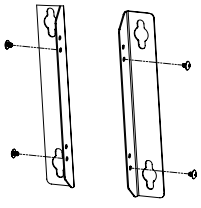
VESA flat-wall mount
PN 175213



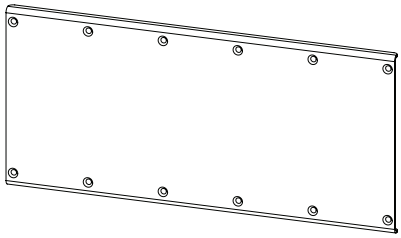
VESA pole mount kit
PN 177865



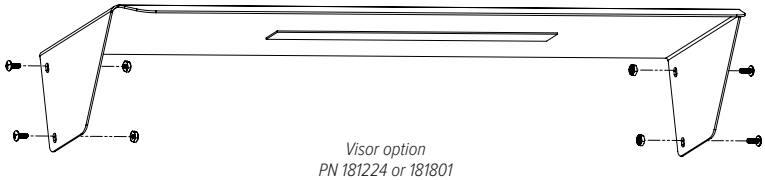
Flange pole mount kit
PN 75856 or 77775



Flange mount
PN 175305, 175306, 179910, 187124



Offset kit
PN 178790



Visor option
PN 181224 or 181801

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LaserLight3™

Color Remote Display with Messaging



Standard Features

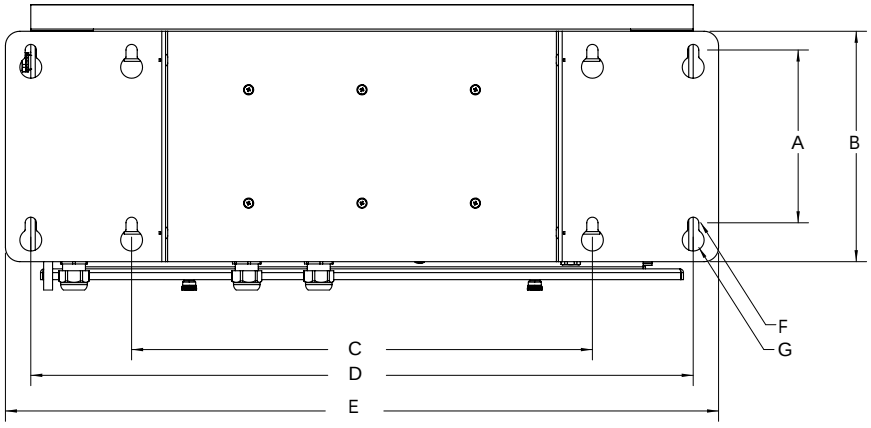
- LED color display with non-glare lens; high-intensity digits up to 5 in tall
- Color commands change background and foreground text
- Auto Learn identifies and interprets the source weight data string for maximum compatibility with a wide range of indicators
- Versatile layout choices include mirror mode, one-line, two-line and quadrant format
- Dynamic messaging views can scroll, slide or flash
- Display stop/go light symbols/arrows with digits up to 4 in tall
- Selectable time/date when weight is at zero
- Integrated weathertight keypad for sending configurable scale commands to the indicator
- Durable IP66 enclosure with Gore-Tex® breather vent to inhibit internal moisture
- RS-232, RS-422, 20 mA and Ethernet TCP/IP
- Mounting options include VESA, flange and pole configurations

Options

- Wireless LAN, Wi-Fi interface 802.11 a/b/g/n
- Wireless interface, pair of ConnexLink radios and mount
- Pole mount kit for 4- to 8-in pole
- VESA kit for 2 to 6-in pole
- Sunshade visor, 8-in painted steel

Dimensions

LaserLight3			
A	6.00 in (152 mm)	E	25.00 in (6.35 mm)
B	8.00 in (203 mm)	F	0.39 in (10 mm)
C	16.00 in (406 mm)	G	0.76 in (19 mm)
D	23.00 in (584 mm)		



Specifications

Power Consumption:
AC voltages: 100 to 240 VAC; 50/60 Hz
120 watt (120 VAC)
95 watt (12 VDC)

Output Interface:
Ethernet TCP/IP, independently configurable
echo port

Input Data Format:
Baud Rate: 1200, 2400, 4800, 9600, 19200, 38400, 57600 and 115200 self-learning or configurable

Update:
Continuous or out-of-motion modes
Message interrupt mode

Digital I/O:
Four I/O read or set
5 V logic

Communication Ports:
Ethernet TCP/IP, RS-232, RS-485,
20 mA current loop

Character Format:
7 or 8 data bits; even, odd, or no parity;
1 or 2 stop bits

Maximum Viewing Distance:
4-inch character: 100 ft (30 m)
5-inch character: 150 ft (46 m)

Viewing Angle:
160°

Display:
Bright, outdoor color LED lamps
128 × 32-pixel, 4 mm pitch
Decimal or comma indication
Weight display with units and mode
Message display 1, 2 or 4 lines
Stop/go and directional arrow

Keys/Buttons:
Integrated keypad

Time:
12- or 24-hour format

Date:
US or ISO format

Temperature:
Operating: -40 °F to 120 °F (-40 °C to 49 °C)

Rating/Material:
IP66 weathertight
Mild steel, powder-coated

Weight:
Without wall mount: 14.19 lb (7.81 kg)
With wall mount: 20.48 lb (10.66 kg)
With sunshade and wall mount: 29.79 lb (14.88 kg)

Warranty:
Two-year limited

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Part Number/Price

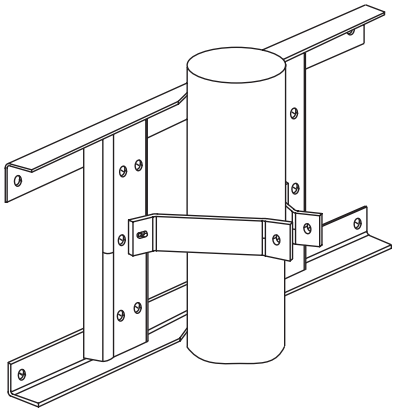
Part #	Description	Est. Weight	Price
Remote Display			
214825	LaserLight3 color 5-in (127 mm) messaging remote display	20 lb	$2,110.00
Weight Indicator			
205780	LaserLight3 large display weight indicator	20 lb	$2,495.00

Options/Accessories

Part #	Description	Price
224940	Cantilever side-mount, mild steel, allows display to be turned for viewing, yellow powder coated finish.	$595.00
212745	Pole mount kit, VERSA flat-wall for 2- to 6-in diameter pole, 6 fasteners (M4 × 8 mm)	$100.00
75856	Pole mount kit, 4-in flange style, 24-in wide frame for use with 4- to 8-in diameter pole	$280.00
208807	Sunshade, 8 in	$135.00
209118	Wireless LAN, RS-232/Wi-Fi interface 802.11 a/b/g/n XPico module	$250.00
212753	RF interface, paired ConnexLink radios transceiver kit and mount	$835.00



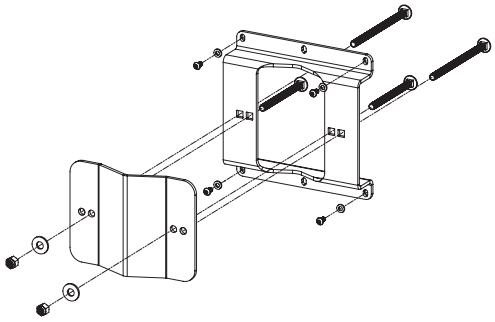
Pictured with optional sunshade visor and legacy mode stop/go



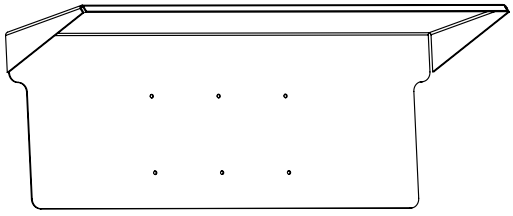
Flange pole-mount kit PN 75856



Cantilever side-mount pictured with optional VESA pole-mount kit



VESA pole-mount kit PN 212745



Sunshade PN 208807

REMOTE DISPLAYS / SCOREBOARD

LaserLT-60 and LaserLT-100

Remote Display or Weight Indicators



LaserLT-60



LaserLT-100

Approvals

Measurement Canada Approved

Part Number/Price

Part #	Description	Price
Remote Display		
185253	LaserLT-60 remote display, 2.4 in (60 mm) LED	$1,330.00
185255	LaserLT-100 remote display, 4.0 in (100 mm) LED	$1,715.00
Weight Indicator		
197453*	LaserLT-60, indicator for weighing 2.4 in (60 mm) LED	$1,380.00
197454*	LaserLT-100, indicator for weighing 4.0 in (100 mm) LED	$1,765.00

**See Instrumentation catalog section for LaserLT models that are configurable as a weight indicator (using SCT-1100 firmware).*

- *Max 10,000 divisions or multi-range*
- *A/D 24 bit 4-channel conversion*
- *Connect 4 cells with summing or up to 4 independent weighing systems*

Options/Accessories

Part #	Description	Price
185256	Mount bracket, 2 tilting side brackets for LaserLT-100	$65.00
185258	Visor for LaserLT-100	$165.00

Standard Features

- LED display
- Auto Learn mode, weight value only
- Manual configuration for format length, weight location, termination character
- Manual Configuration mode for reading weight, variables and bitmap bytes
- Parameters for motion, overload, decimal point, net character, COZ
- Status LEDs for zero, motion, net, unit 1, unit 2
- Integrated five-key waterproof keypad with configurable scale commands
- Adjustment for six levels of brightness through the keypad
- Includes removable back wall mount bracket
- Fitted with anti-condensation air valve to regulate humidity and pressure

Specifications

Power:
AC voltages: 110 to 240 VAC
DC voltages: 12 to 24 VDC

Display:
6-digit, 7-segment discrete red LED lamps, single width
2.4 in (60 mm) or 4 in (100 mm) digit
Decimal/comma indication in any position
Annunciators for NT, Stability, COZ

Maximum Viewing Distance:
LaserLT-60: 2.4 in digit 75 ft (25 m)
LaserLT-100: 4 in digit 100 ft (30 m)

Communication Ports:
RS-232, RS-485

Input Data Format:
Baud rate: 1200 to 115.2 K software selectable
Even parity 7 data bits, or no parity 8 data bits

Update:
Software selectable 1-20/sec

Digital I/O:
Two inputs, 12 to 24 VDC
Two outputs, 48 VAC, 60 VDC max

Rating/Material:
304 stainless steel, IP68

Weight:
10 lb

Temperature:
Operating:
-40 °F to 120 °F (-40 °C to 49 °C)

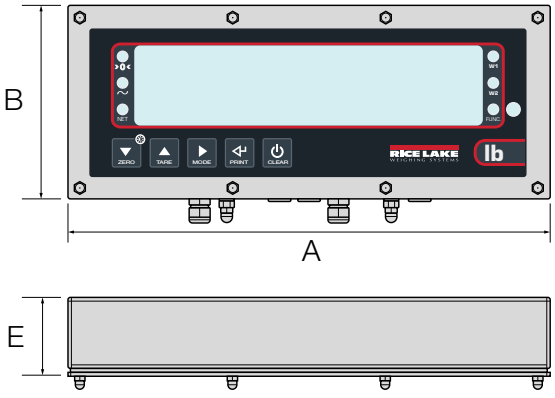
Warranty:
One-year limited

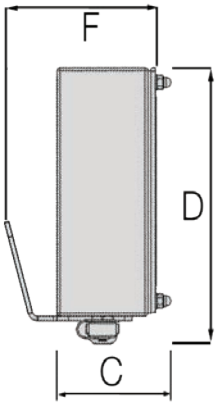
Approvals:
NTEP 20-046
Measurement Canada
CE Marked

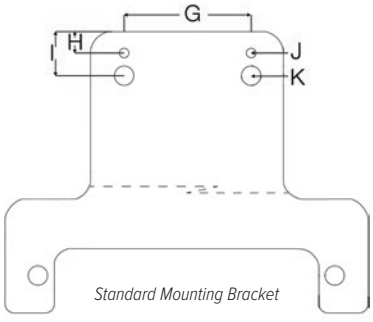
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Dimensions

LaserLT-60/LaserLT-100			
LaserLT-60			
A	16.14 in (410 mm)	D	7.28 in (185 mm)
B	6.50 in (165 mm)	E	2.64 in (67 mm)
C	3.03 in (77 mm)	F	4.84 in (123 mm)
LaserLT-100			
A	16.93 in (430 mm)	D	7.63 in (194 mm)
B	7.28 in (185 mm)	E	2.52 in (64 mm)
C	2.52 in (64 mm)	F	3.98 in (101 mm)
Mount Bracket Hole Dimensions			
G	2.36 in (60 mm)	J	0.24 in (6 mm)
H	0.39 in (10 mm)	K	0.39 in (10 mm)
I	0.81 in (21 mm)		

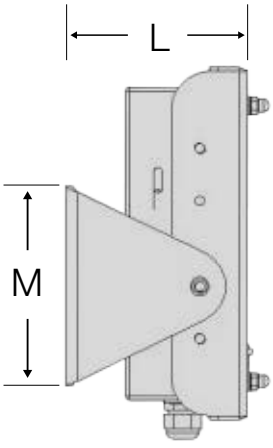


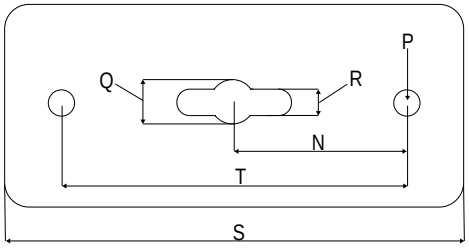




Standard Mounting Bracket

Optional Side Bracket for LaserLT-100 Hole Dimensions			
L	3.98 in (101 mm)	Q	0.43 in (11 mm)
M	4.13 in (105 mm)	R	0.28 in (7 mm)
N	1.57 in (40 mm)	S	4.13 in (105 mm)
P	0.28 in (7 mm)	T	3.15 in (80 mm)





LaserLT-100
Optional Side Bracket

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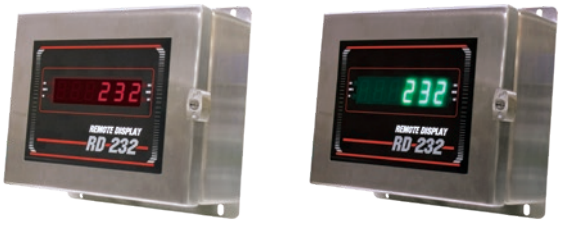
RD-232
Remote Display



RD-232 NEMA Type 4X FRP Enclosure



RD-232 Compact Stainless Steel Wall Mount Enclosure



RD-232 NEMA Type 4X Stainless Steel Wall Mount Enclosure

Standard Features

- AC or DC operation
- Easy-to-read 0.8 in (20 mm) LED red or green (sunlight visible)
- Three enclosure types or panel mount kit
- Four annunciators
- Full floating decimal point
- Compatible with a variety of digital weighing indicators; DIP switch selectable intuitive data receiver interprets serial strings

Specifications

Display:
6-digit, 7-segment, 0.8 in (20 mm) LED
Red (standard intensity)
Green (sunlight visible)

Annunciators:
lb, kg, gross, net

Operating Voltage:
115 VAC, 230 VAC available
DC voltage Range: 6.2 to 18 VDC

Input Interface:
RS-232, 20 mA active or passive current loop
ASCII compatible

Baud Rate:
Selectable: 300, 600, 1200, 2400, 4800, 9600, 19200

Temperature:
Operating:
-13 °F to 104 °F (-25 °C to 40 °C)

Rating/Material:
NEMA Type 4X FRP or stainless steel

Weight:
Approximately 5 lb (2.3 kg)
Stainless steel unit, approximately 8 lb (3.6 kg)

Warranty:
One-year limited

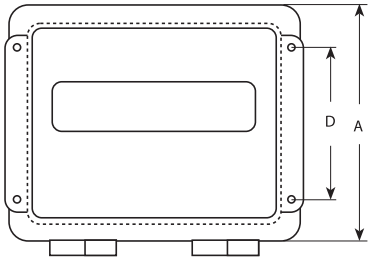
Part Number/Price

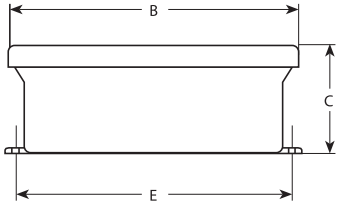
Part #	Description	Est. Weight	Price
Red LED			
32716	RD-232, 115 VAC/12 VDC, FRP enclosure, red LED	5 lb	$1,030.00
68786	RD-232, 115 VAC/12 VDC, compact stainless steel wall mount enclosure, red LED	5 lb	$1,030.00
32717	RD-232, 115 VAC/12 VDC, NEMA Type 4X stainless steel wall mount enclosure, red LED	8 lb	$1,280.00
32727	RD-232, 115 VAC/12 VDC, panel mount, red LED	3 lb	$980.00
34748	RD-232, 230 VAC/12 VDC, no power cord, FRP enclosure, red LED	5 lb	$1,130.00
Green LED			
178168	RD-232, 117 VAC/12 VDC, FRP enclosure, green LED	5 lb	$1,030.00
178169	RD-232, 117 VAC/12 VDC, compact stainless steel wall mount enclosure, green LED	5 lb	$1,030.00
178170	RD-232, 117 VAC/12 VDC, NEMA Type 4X stainless steel wall mount enclosure, green LED	8 lb	$1,280.00
178171	RD-232, 220 VAC/12 VDC, FRP enclosure, no power cord, green LED	5 lb	$1,130.00

Specify interfacing indicator when ordering a remote display

Options/Accessories

Part #	Description	Price
33210	Additional operating manual (RD-232/RD-300)	$25.00





Dimensions

RD-232			
FRP Enclosure			
A	8.00 in (203 mm)	D	4.00 in (101 mm)
B	9.50 in (241 mm)	E	9.00 in (222 mm)
C	6.00 in (133 mm)		
Stainless Steel Enclosure			
A	8.00 in (203 mm)	D	8.63 in (219 mm)
B	10.00 in (254 mm)	E	8.00 in (203 mm)
C	4.31 in (109 mm)		
Compact Stainless Steel Enclosure			
A	6.25 in (158 mm)	D	5.25 in (133 mm)
B	9.25 in (234 mm)	E	8.50 in (215 mm)
C	2.00 in (50 mm)		
Panel Mount			
A	5.88 in (149 mm)	D	5.12 in (130 mm)
B	7.88 in (200 mm)	E	7.12 in (180 mm)
C	2.00 in (50 mm)		

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RD-300 NEMA Type 4X FRP Enclosure



RD-300 Compact Stainless Enclosure



RD-300 NEMA Type 4X Stainless Steel Enclosure

Standard Features

- Easy-to-read 1 in (25 mm) LCD
- Three enclosure types or panel mount kit
- Status annunciators
- AC operation
- Backlight for dark conditions
- Compatible with a variety of digital weight indicators; intuitive data receiver automatically interprets serial strings

Specifications

Display:
6-digit, 7-segment, 0.8 in (20 mm) LED

Annunciators:
lb, kg, gross, net

Operating Voltage:
115 VAC, 230 VAC available
DC Voltage Range: 6.2 to 18 VDC

Input Interface:
RS-232, 20 mA active or passive current loop
ASCII compatible

Baud Rate:
Selectable: 300, 600, 1200, 2400, 4800, 9600, 19200

Temperature:
Operating:
-13 °F to 104 °F (-25 °C to 40 °C)

Rating/Material:
NEMA Type 4X FRP or stainless steel

Weight:
Approximately 5 lb (2.3 kg)
Stainless steel unit, approximately 8 lb (3.6 kg)

Warranty:
One-year limited

Part Number/Price

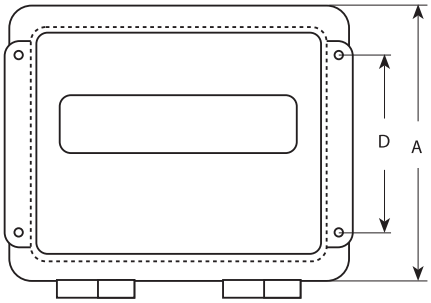
Part #	Description	Est. Weight	Price
68782	RD-300 AC, compact stainless steel enclosure with backlight	5 lb	$1,055.00
22532	RD-300 AC, FRP enclosure with backlight	5 lb	$1,055.00
22536	RD-300 AC, NEMA Type 4X stainless steel enclosure with backlight	8 lb	$1,305.00
22540	RD-300 AC, panel mount with backlight	3 lb	$980.00
34750	RD-300 AC, 230 VAC, FRP enclosure with backlight	5 lb	$1,155.00

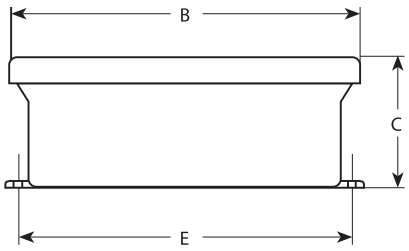
Options/Accessories

Part #	Description	Price
33210	Additional operating manual (RD-300/RD-232)	$25.00

Dimensions

RD-300			
FRP Enclosure			
A	8.00 in (203 mm)	D	4.00 in (101 mm)
B	9.50 in (241 mm)	E	8.75 in (222 mm)
C	6.00 in (133 mm)		
Stainless Steel Enclosure			
A	8.00 in (203 mm)	D	8.63 in (219 mm)
B	10.00 in (254 mm)	E	8.00 in (203 mm)
C	4.31 in (109 mm)		
Compact Stainless Steel Enclosure			
A	6.25 in (158 mm)	D	5.25 in (133 mm)
B	9.25 in (234 mm)	E	8.50 in (215 mm)
C	2.00 in (50 mm)		
Panel Mount			
A	5.88 in (149 mm)	D	5.12 in (130 mm)
B	7.88 in (200 mm)	E	7.12 in (180 mm)
C	2.00 in (50 mm)		





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Retail

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Battery-operated Price Computing Scales

Ishida Astra II **905**
Price Computing Scale with Printer

Ishida Astra II **907**
Standard Label Formats

Rice Lake BenchPro™ BP-R **908**
Retail Digital Bench Scale

QuikSharp™ **910**
Sharpener

Weight Set **910**
ASTM Class 5 Stainless Steel Satin 30lb kit

RETAIL SCALES

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Rice Lake RS-130/RS-160

Battery-operated Price Computing Scales



RS-130 Pole



RS-160 Bench

Standard Features

- Toggle between lb/kg/oz*
- PLU keys for direct price lookups
- Cash back calculation
- Large stainless steel platter
- In-use cover
- Pole swivels to face desired direction
- Battery charge indicator
- Internal sealed battery
- Customer display

**Not Measurement Canada Approved*

Specifications

Power:
Battery (rechargeable): 6 VDC, 25 mA
A dapter: 115 VAC, 0.1 A max (included)

Battery Life:
100+ hours, 8 to 10 hours to recharge

Resolution:
Display: 3,000 divisions maximum

Annunciators:
Net, zero, kg, lb, oz, change due, cash received

Display:
LCD backlit, 0.45 in (11.5 mm)

Display Items:
Weight: Five-digits
Unit price: Five-digits
Total price: Six-digits

Keys/Buttons:
Change, unit, zero, tare buttons
Nine PLU keys

Temperature Range:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
One-year limited

Approvals:
NTEP 04-067

Approvals

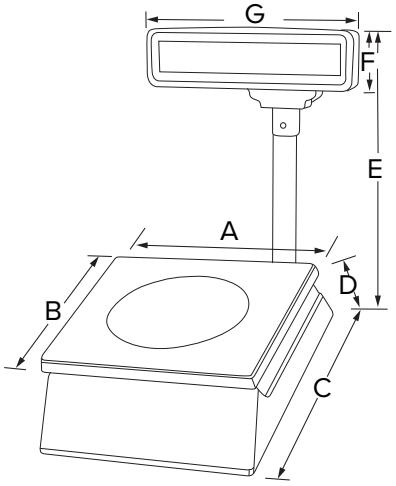
Part Number/Price

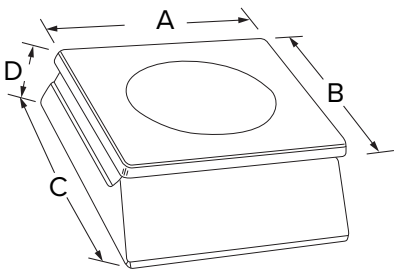
Part #	Model	Capacity	Est. Weight	Price
167941	RS-130 Bench	30 × 0.01 lb 15 × 0.005 kg 480 × 0.2 oz	12 lb	$396.00
168100	RS-130 Pole	30 × 0.01 lb 15 × 0.005 kg 480 × 0.2 oz	13 lb	$407.00
167942	RS-160 Bench	60 × 0.02 lb 30 × 0.01 kg 960 × 0.5 oz	12 lb	$406.00
168101	RS-160 Pole	60 × 0.02 lb 30 × 0.01 kg 960 × 0.5 oz	13 lb	$419.00

NOTE: Buy quantity of 5 and get a 50% discount

Options/Accessories

Part #	Description	Price
169634	Additional operating manual	$15.00
169635	Additional calibration instructions	$5.00
85711	Additional in-use cover	$7.00
47976	Fish platter, (W × D) 9.5 × 13.5 in	$108.00
47977	Produce platter, (W × D) 9.5 × 13.5 in	$85.00
85710	Replacement rechargeable battery, 6 V	$25.00





Dimensions

Bench			
Unit			
A	300 mm	C	330 mm
B	240 mm	D	120 mm
Pole			
Unit			
A	300 mm	E	410 mm
B	240 mm	F	78 mm
C	330 mm	G	280 mm
D	120 mm		

RETAIL SCALES

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Ishida Astra II

Price Computing Scale with Printer



Astra | Bench



Astra | Pole

Approvals

Part Number/Price

Part #	Model	Capacity	Est. Weight	Price
185822	Astra II Bench	30 × 0.01 lb	25 lb	$1,919.00
185823	Astra II Pole	30 × 0.01 lb	25 lb	$2,016.00
190641	Astra II Lite software CD (available for download at www.ricelake.com)			N/C
190642	Astra II Lite license file (for one computer only, not transferable)			$154.00

Options/Accessories

Part #	Description	Price
47977	Produce platter (sits on top platter included with scale)	$85.00
47976	Fish platter (sits on top platter included with scale)	$108.00
47341	Continuous roll thermal journal paper, 64 mm W × 50 m L (for reports only)	$6.00
184273*	Technical manual	$15.00
184270*	Additional operating manual	$15.00
184274*	Additional operation card	$15.00
170916	Additional operator keysheet insert	$28.00
Label Stock		
47732	2.36 × 1.73 in (60 × 44 mm)	$96.00
47733	2.52 × 1.85 in (64 × 47 mm)	$96.00
47735	2.52 × 2.32 (64 × 59 mm)	$96.00
47736	Pre-printed safe handling instructions, 2.52 × 2.32 in (64 × 59 mm)	$96.00
47743 * **	Extended text, 2.52 × 3.34 in (64 × 85 mm)	$96.00
47745	Pre-printed safe handling instructions on top of label, 2.52 × 3.34 in (64 × 85 mm)	$96.00
47753	Blank 2.52 × 1.46 in (64 × 37 mm)	$96.00
47754	Blank 2.52 × 1.85 in (64 × 47 mm)	$99.00
47761	Continuous strip label stock 2.25 x 121 in (64 x 37,000 mm)	$96.00
47762	Non-bar code, 2.52 × 2.32 in (64 × 37 mm)	$96.00
105346	Blank 2.52 × 3.34 in (64 × 85 mm)	$96.00

Label stock, please consult factory for case quantity pricing. Examples shown on page 911
Labels sold by the case-12 rolls per case.
** Manuals and software programs can be downloaded at www.ricelake.com*
**** Safe handling instructions can also be printed by scale*

Standard Features

- Programmable function keys
- Blue alphanumeric LCD display
- Convenient side-loading label feature
- Wired Ethernet
- Customer display

Specifications

Power:
AC 100 to 240 V, 50/60 Hz

Power Consumption:
Standby: 50 W
In operation: 100 W

Resolution:
Display: 3,000 divisions

Communication Ports:
Ethernet: TCP/IP 10/100 Base-T
USB: data backup and restore

Memory Capacity:
2 MB

Annunciators:
Net, zero, save, auto

Display:
Blue alphanumeric LCD display (23 digits, 16 segments)

Display Items:
Tare: four-digits
Unit price: five-digits
Total price: six-digits

Keys/Buttons:
84 one-touch preset keys, 168 presets (assign two items/key)

Printing Speed:
3.9 in (100 mm) per second

Printing:
Direct thermal 2.2 in (56 mm) (448 dot, 8 dot/mm)

Label Size:
Width: 1.5 to 2.5 in (38 to 64 mm)
Length: 1.2 to 6.9 in (30 to 175 mm)

Label Roll:
Inside diameter: 1.6 in (40 mm)
Outside diameter: 3.9 in (100 mm)

Label Backing Paper:
Width: Up to 2.6 in (66 mm)

Temperature :
Certified: 14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
One-year limited

Approvals:
NTEP 07-005
UL

RETAIL SCALES

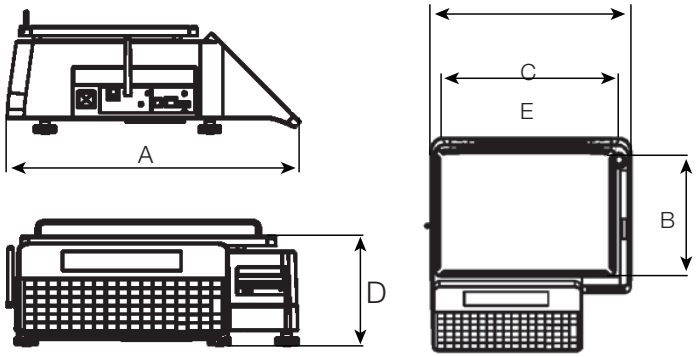
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Ishida Astra II

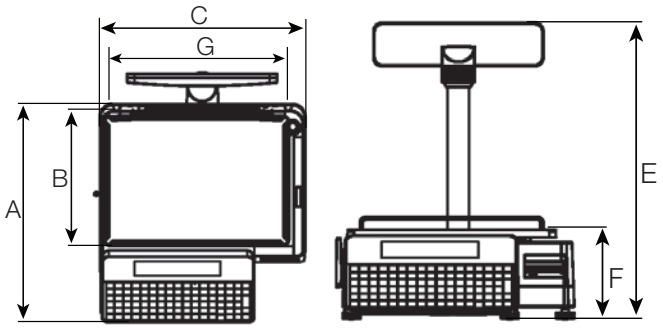
Price Computing Scale with Printer

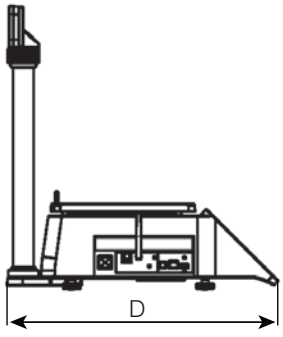
Dimensions

Astra II			
Bench Unit			
A	17.2 in (437 mm)	F	6.3 in (160 mm)
B	10.5 in (266 mm)	G	14.6 in (370 mm)
C	16.1 in (410 mm)		



Astra II			
Pole Unit			
A	17.2 in (437 mm)	E	20.6 in (524 mm)
B	10.5 in (266 mm)	F	6.3 in (160 mm)
C	16.1 in (410 mm)	G	14.6 in (370 mm)
D	19.7 in (500 mm)		





RETAIL SCALES

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Titles on labels are pre-printed (SELL BY, PACKED ON, $ LB, NET WT, TOTAL PRICE)

Maximum description text per label:

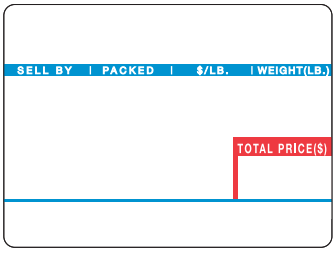
Formats 1-5 ..... 1 name line + 2 ingredient lines

Format 6 ..... 1 name line + 6 ingredient lines

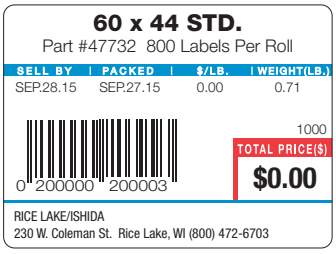
Format 7 ..... 1 name line + 17 ingredient lines

Format 8 ..... 1 name line + 6 ingredient lines

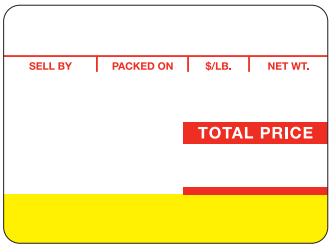
Format 1



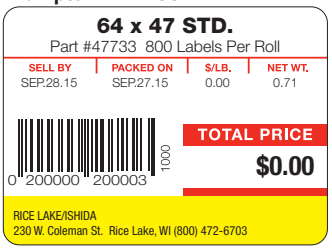
Example PN 47732



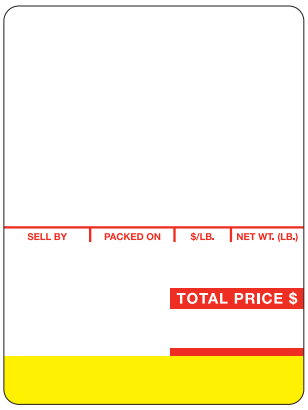
Format 2



Example PN 47733



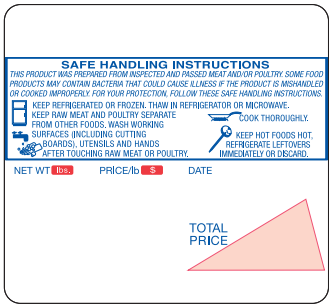
Format 3



Example PN 47743



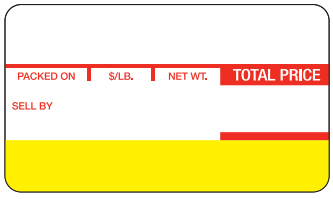
Format 4



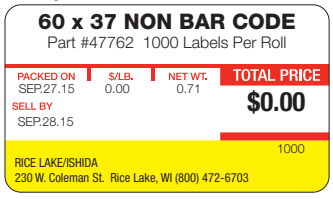
Example PN 47736



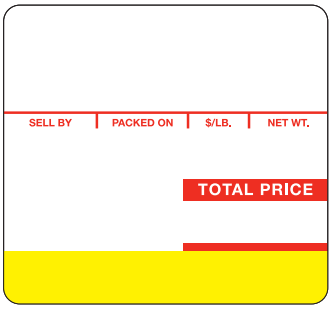
Format 5



Example PN 47762



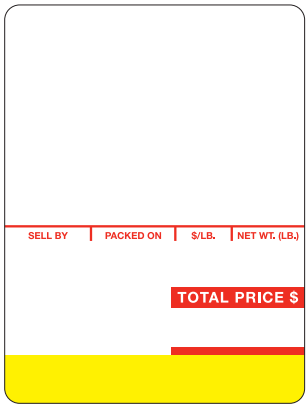
Format 6



Example PN 47735



Format 7



Example PN 47743



Format 8



Example PN 47745



RETAIL SCALES

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Rice Lake BenchPro™ BP-R

Retail Digital Bench Scale



BP-R 10 × 10 in with optional tabletop display pole PN 183103 and customer display PN 180901

Approvals

Measurement Canada Approved

Part Number/Price

Part #	Capacity	Dimensions	Est. Weight	Price
182374	15 × 0.005 lb (6 × 0.002 kg) / 15 lb × 0.1 oz	6 × 10 in	12 lb	$825.00
182375	30 × 0.01 lb (15 × 0.005 kg) / 30 lb × 0.2 oz	6 × 10 in	12 lb	$825.00
182376	15 × 0.005 lb (6 × 0.002 kg) / 15 lb × 0.1 oz	10 × 10 in	15 lb	$825.00
182377	30 × 0.01 lb (15 × 0.005 kg) / 30 lb × 0.2 oz	10 × 10 in	15 lb	$825.00
179733	15 × 0.005 lb (6 × 0.002 kg) / 15 lb × 0.1 oz	12 × 14 in	17 lb	$665.00
179732	30 × 0.01 lb (15 × 0.005 kg) / 30 lb × 0.2 oz	12 × 14 in	17 lb	$665.00

Options/Accessories

Part #	Description	Est. Weight	Price
174783	Column bracket and post (12 × 14 in scale only)	2 lb	$50.00
180901	Second customer display, BenchPro BP-R no keyboard with 68 in cable	4 lb	$72.00
174784	Second remote operator display, BenchPro BP-R with 68 in cable	4 lb	$88.00
183103	16 in (H) tabletop display post for use with second display, customer or remote operator	4 lb	$215.00
178501	USB-RS-232 serial adapter	1 lb	$60.00
196179	Wedgelink cable for direct RS-232 output, 9600-N-8-1	1 lb	$255.00

Standard Features

- Large LCD display protected by heavy-duty tempered glass
- Powered USB HID point of sale interface—plug and play USB interface provides power and communications
- Interface for use with SMA, NCI and ECR
- Battery operation for portability (BP-R 12 × 14 in scale only)
- Gravitational compensation allows for adjustment of factory calibration to meet your local gravity setting, non-approved

Specifications

Power:
100 to 240 VAC, 50/60 Hz ± 3 Hz
12 × 14 in scale only:
AA alkaline batteries (not included)

Battery Life:
250 hrs sleep mode or 80 hrs continuous use, backlight on 80 hrs sleep mode or 50 hrs continuous use

Screen Resolution:
0 to 1,000 d, 1.0 sec, maximum average
1,000 d +, 1.5 sec, maximum average

Communication Ports:
RS-232 DB 9-pin male to female, straight pass through and null modem (10 ft cable included)
USB A/B type (46 in cable included)
USB HID, 2.0 full speed, vendor ID 1C19, product ID 0002

Display:
Six-digit backlight LCD display with 1 in (25 mm) characters protected by heavy-duty tempered glass

Platter:
Stainless steel

Keys/Buttons:
Zero, units, tare, F1

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)

Warranty:
One-year limited

Approvals:
NTEP 17-002
Measurement Canada AM-6050
CE



Operator display



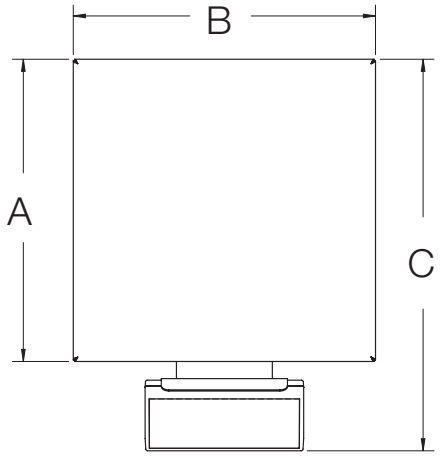
Customer display (optional)

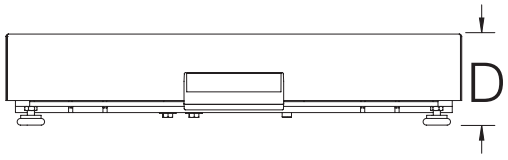
RETAIL SCALES

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Dimensions

	A	B	C	D
6 × 10 in	6.0 in	10.0 in	9.0 in	2.4 in
10 × 10 in	10.0 in	10.0 in	13.0 in	2.5 in
12 × 14 in	12.0 in	14.0 in	14.5 in	2.7 in







BP-R 12 × 14 scale



BP-R 06 × 10 scale



BP-R 12 × 14 scale with optional column bracket & post

RETAIL SCALES

QuikSharp™

Sharpener



Standard Features

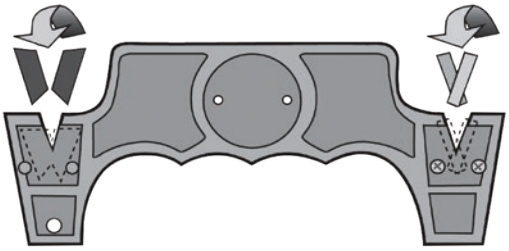
- Tungsten carbide blades
- Ceramic honing rods
- Reversible blades

Specifications

Dimensions:
(L × W × H)
6.00 × 0.75 × 2.50 in
(152 × 19 × 64 mm)

Part Number/Price

Part #	Description	Weight	Price
78720	Intruder QuikSharp™ complete knife sharpening system	2.25 oz	$14.00



HOW TO REVERSE CARBIDE BLADES AND CERAMIC RODS

1. Remove screws to open sharpener.

2. Reverse blades or rods as shown.
3. Replace screws and reassemble sharpener. Reversible blades have a total expected life of four to five years with normal use.

Weight Set

ASTM Class 5 Stainless Steel Satin 30 lb kit



Standard Features

- ASTM Class 5
- Protective case
- Stainless steel

Weight Sets

Part #	Description	Optional Accredited Certificate	Price
12640	30 lb weight kit (5 lb - 6 pcs) satin	$470.00	$1,130.00
12638	30 lb weight kit (10 lb - 3 pcs) satin	$235.00	$975.00

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Scanners

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Handheld Scanner

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Handheld Scanner

PowerScan® RF PM9100 Series **914**
Laser Scanner

ZEBRA®

DS457 ..... **915**
Fixed Barcode Scanner

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DATALOGIC

QuickScan QD2590

Handheld Scanner



Part Number/Price

Part #	Description	Weight	Price
225022	QuickScan, QD2590 KBW, USB Capable, Wand Emulation, RS-232, w/6 foot RS-232 cable and stand black	4 lb	$440.00
225020	Quickscan QD2590 with USB cable	4 lb	$345.00
225023	QuickScan QD2590 With RS232 8-Pin Din Cable for Digi Counting Scales	4 lb	$490.00
225024	QuickScan QD2590 Counterpart Scanner & 9Pin RS232 Cable w/quick Connect	4 lb	$430.00

Options/Accessories

Part #	Description	Price
192322	Power supply, desktop 5 V, 12 W	$48.00
112447	RS-232 6 ft cable coiled nine-pin female	$58.00
85022	PS/2 to AT adaptor five-pin DIN male six-pin DIN female 6 in tail	$14.00
114797	RS-232 cable with eight-pin DIN cable (for use with Digi counting scales)	$110.00
125744	RS-232 cable nine-pin powered cable to blunt end with plug in (for use with Counterpart®)	$58.00

Density	Range
4 mils	0.8 to 4.3 in (2.0 to 11 cm)
5 mils	0.6 to 6.0 in (1.5 to 15.0 cm)
10 mils	0.3 to 15.0 in (0.8 to 38.0 cm)
20 mils	1.0 to 26.0 in (2.5 to 65 cm)

Standard Features

- Lightweight and balanced design
- Extra-wide scan angle and extra-long scan line
- Extended reading range and depth of field (DOF)
- Sharp and highly visible scan line
- Depth of field reading for general purpose scanning applications
- Datalogic's patented "Green Spot" technology for good-read feedback
- Linear Imager

Specifications

Light Source:
Red LED 617 mm

Printing Resolution:
Contract and ambient light dependent

Decode Capabilities:
UPC A, E/EAN 8, 13/JAN 8, 13 (including add-ons P2/P5, Code128), Code 128, Code 93, Pharmacode 39, Code 39, Codabar, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, RSS 14, RSS 14 Stacked, RSS Expanded, RSS Limited, MSI/Plessey, UK/Plessey, Telepen, Code 16K, Code 11, PDF417 with audio assist

Dimensions:
(L × W × H)
6.7 × 2.8 × 2.6 in
(17.0 × 7.1 × 6.6 cm)

Weight:
121.9 g (4.3 oz)

Read Rate:
270 reads/sec

Communications:
RS-232 DB9 female connector
USB
Keyboard wedge
Wand multi-interface

Temperature:
Operating:
32 °F to 122 °F (0 °C to 50 °C)

Humidity:
5% to 95% non-condensing

Shock Tolerance:
Withstands repeated drops on concrete from 5 ft (1.5 m)

IP Rating:
IP42

Warranty:
Five-year limited

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PowerScan® PD9130 Series

Handheld Scanner



Part Number/Price

Part #	Description	Weight	Price
195144	Scanner, PD9130 YB multi-interface, includes power supply (cable not included)	4 lb	$588.00
195145	Scanner kit includes: PD9130 YBK2 scanner and RS-232 cable (power supply not included)	4 lb	$725.00

Options/Accessories

Part #	Description	Price
195146	Kit, universal mount, Datalogic STD-P090	$42.00
108217	RS-232 cable, CAB-434, 8 ft, nine-pin female coiled, PD9100 series	$82.00
195147	USB cable, CAB-524 for use with PD9130 only	$82.00
108219	Keyboard wedge cable, CAB-437, PD9100 series	$82.00
192322	Power supply, desktop 5 volt, 12 W, PD9100 series	$48.00
41276	DB9-M Pin blunt end cable	$77.00
Consult	RS-232 coiled 12 ft, CAB 467	Consult
Consult	RS-232 coiled 15 ft, CAB 486	Consult
Consult	USB, 8-0734-08	Consult

Standard Features

- Durable design: tested to 50 drops of 2 m/6.6 ft
- 25 kV electrostatic protection
- Datalogic's patented "Green Spot" technology for good-read feedback
- Aladdin® software for configuration
- Linear Imager

Specifications

Light Source:
Aiming 630 to 680 mm VLD

Decode Capabilities:
GS1 DataBar™ linear codes, UPC/EAN, UPC/EAN P2/P5 add ons, UPC/EAN Coupons, ISBN, Code 128, EAN 128, Code 39, Code 39 Full ASCII, Code 39 CIP, Code 32, Codabar, Interleaved 2 of 5, IATA, Industrial 2 of 5, Standard 2 of 5, Code 11, MSI, Plessey, Code 93, Follet 2/5, Code 4, Code 5, Datalogic 2 of 5, Codablock F

Dimensions:
(L × W × H)
8.0 × 3.0 × 4.5 in
(20.3 × 7.6 × 11.4 cm)

Display:
LED

Weight:
280.0 g (9.9 oz)

Communications:
Keyboard wedge, USB or RS-232

Temperature:
Operating:
-22 °F to 122 °F (-30 °C to 50 °C)
Storage:
-22 °F to 122 °F (-30 °C to 50 °C)

Humidity:
5% to 95% non-condensing

IP Rating:
IP65

Drop Resistance:
6.6 ft (2 m)

Warranty:
Three-year limited

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DATALOGIC

PowerScan® RF PM9100 Series

Laser Scanner



Part Number/Price

Part #	Description	Weight	Price
196334	PowerScan RF scanner with battery, SR, 910 MHz for RS-232 keyboard wedge wand emulation interfaces (requires cable and base station)	4 lb	$895.00
182779	PowerScan RF base station, 910 MHz for RS-232, keyboard wedge/wand	5 lb	$530.00
190963	PowerScan PM9100 US, AC power adapter	3 lb	$46.00
225182	Scanner kit, PM9100 for Rice Lake indicators	-	$1,600.00

Options/Accessories

Part #	Description	Price
108219	Cable, wedge, Y, six-pin mini DIN, five-pin D/N, universal adapter cable	$82.00
108217	Cable, RS-232, nine-pin D-sub, 8 ft	$82.00

Standard Features

- Wireless operation
- Operates up to 10 hours on a single charge
- Datalogic's patented "Green Spot" technology for good-read feedback
- Polycarbonate molded with rubber
- Multi-point operation allows for multiple scanner communications to a single base station
- Linear imager

Specifications

Light Source:
VLD between 630 to 380 nm

Decode Capabilities:
Codabar, Codablock F, Code 11, Code 128, Code 32, Code 39, Code 39 CIP, Code 39 Full ASCII, Code 4, Code 5, Code 93, Datalogic 2 of 5, GS1 DataBar, IATA, Industrial 2 of 5, Interleaved 2 of 5, ISBN, MSI, Plessey, Standard 2 of 5, UPC/EAN supplementals

Dimensions:
Scanner: 8.4 × 4.5 × 2.8 in
(212 × 109 × 71 mm)
Base station: 10.5 × 3.5 × 2.5 in
(266.7 × 88.9 × 63.5 mm)
(width is 4.2 in/106.68 mm including mounting knobs)

Display:
LCD: 6 lines × 16 characters

Base Station:
US: 110 V ± 10%, 60 Hz

Weight:
Scanner: 14.2 oz (405 g)
Base station: 16 oz (454 g)

Communications:
Host: RS-232 with DB9 S, P/S and 12 ft cable.
KBW (keyboard wedge) with P/S and 6 M Din, coiled cable 12 ft
USB, 12 ft coiled cable

Frequency Range:
(varies by country)
915 mHz

Temperature Range:
Operating:
-4 °F to 122 °F (-20 °C to 50 °C)
Storage:
-40 °F to 158 °F (-40 °C to 70 °C)

Humidity:
0 to 90% non-condensing

IP Rating:
Scanner: IP65
Base station: IP64

Drop Resistance:
2 m

Battery Type:
Li-Ion 2150 mAh

Electrical:
Complies to C-CSA-US
(60950 Canada and USA)

Warranty:
Three-year limited

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Part Number/Price

Part #	Description	Weight	Price
154077	DS457 (scanner 5 VDC ±10 % at 450 mA requires power source)	4 oz (111 g)	$630.00

Options/Accessories

Part #	Description	Price
97479	Cable assembly, DB9F to blunt end, can supply power from scale indicator DI/O	$55.00

Standard Features

- High-speed omnidirectional scan pattern
- Rugged, durable housing
- Reads 1D and 2D symbols
- Supports 123Scan2 configuration tool
- Enables rapid and easy customized setup through a free, wizard-based PC software tool
- Scans any barcode on paper, mobile phones and computer displays

Specifications

Decode Capability:
1D - All major 1D bar codes
2D - PDF417, DataMatrix, QR Code, Aztec, Composite Codes and MaxiCode
Postal - US Postnet, US Planet, UK Postal, Australian Postal, Japan Postal

Dimensions:
(L × W × H)
2.44 × 2.30 × 1.15 in
(6.20 × 5.84 × 2.92 cm)

Weight:
3.9 oz (111 g)

Communications:
Interfaces supported: 9-pin male D-sub USB (full speed) and TTL level RS-232 with RTS and CTS

Performance Characteristics:
Sensor resolution: 752 (H) × 480 (V) gray scale
Imager field of view DS457 SR: 39.6° horizontal, 25.7° vertical
Aiming element: 655 ± 10 nm (VLD)
Illumination element: 625 ± 5 nm (LED)

Power Maximum:
5 VDC ± 10% at 450 mA

Temperature Range:
Operating:
-4 °F to 122 °F (-20 °C to 50 °C)
Storage:
-40 °F to 158 °F (-40 °C to 70 °C)

Humidity:
95% RH, non-condensing at 122 °F (50 °C)

IP Rating:
IP54

Drop Resistance:
Withstands multiple 30 in (76 cm) drops to concrete

Image File Formats:
BMP, TIFF, JPG

Regulatory:
Electrical Safety ETL, VDE, CETL, EN60950, Ctick, VCCI
Laser Classification Intended for use in CDRH Class II/IEC 825 Class I devices
EMI/RFI FCC Part 15 Class B, ICES-003 Class B, CISPR22 Class B

Warranty:
Three-year limited
(against defects in workmanship and materials)

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RL Web Display **923**
Remote Scale Monitoring Software

VIRTUi²® **924**
PC-Based HMI for iQUBE²®

VIRTUlink™ **925**
Scale Monitoring and Diagnostics System

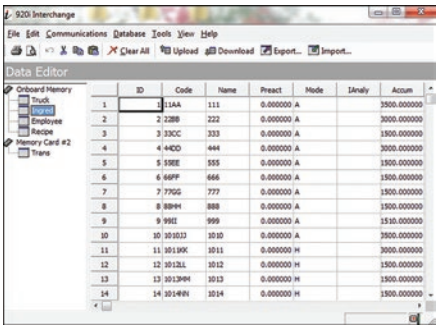
WeighVault® **926**
Web Application with Middleware Services

WinWedge® TAL Software **927**
Wedge Software

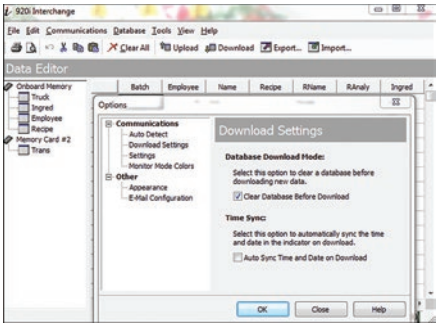
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Interchange

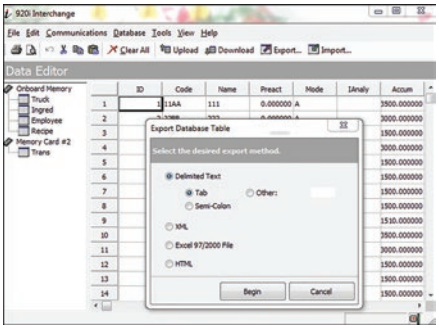
Database Management Software



Database Editor



Communication Settings for Download



Export or Import Data

Interchange database management software is used to set up a custom job file for each database you need to export. Manually or automatically run the job file by setting a predetermined time using Windows® Task Scheduler.

Part Number/Price

Part #	Description	Price
72809	Interchange database software	$325.00

Standard Features

- Compatible with 920i® and 1280 indicators
- Edit and manage databases
- Automatic database export can be utilized by using an export job wizard
- Connect using RS-232, RS-485 or Ethernet TCP/IP
- Program will connect to the indicator and upload current database structure
- Export database table file types: delimited text, XML, XLS, HTML

Specifications

Minimum System Requirements:
Windows® 7 or newer

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Standard Features

- Modular process management creates the best system for each facility
- Full material traceability
- Extensive real-time reports
- Monitor cost, product quality and regulatory compliance
- Works with many types of hardware and peripheral equipment including legacy hardware
- Integrate with third-party systems
- SQL database or proprietary file-based database

System Requirements:

- Intel I5 or equivalent
- 8 GB RMA
- Windows® 11
- 500 GB hard drive

Standard modules are listed below. Additional modules are available.

BATCH RECIPE FORMULATION

Accurate ingredient weighing in batches, blends and mixes. Offers benefits of consistent quality, reduced waste, better cost control and full traceability of weighing and measuring ingredients for set recipes.

- Displays recipe method, HACCP messages and manufacturing information
- Automatic calculation of ingredient weights for non-standard batch sizes

Part Number/Price

Part #	Description	Starting Package Price
Consult	Batch Recipe Formulation	$8,975.00

DYNAMIC CHECKWEIGHING

Records all packs from the checkweigher and offers real-time charting. Immediate warning of low weights and expensive giveaway. Comprehensive records help analyze pack weights and diagnose filling faults.

- Allows product database to be centrally managed at one PC and send settings to each checkweigher
- Automatically changes products on checkweigher from central job control
- Calculates fill adjustments to maintain control target (can be displayed to operator or connected to suitable equipment for automatic feedback control)
- Advanced statistical and AI control options available for complex products
- Option to record integrated metal detector actions

Part Number/Price

Part #	Description	Starting Package Price
Consult	Dynamic Checkweighing	$7,575.00

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Myrias®

Integrated Software Solution

STATIC CHECKWEIGHING

Adds efficiency to manufacturing, sorting and food-processing applications. Each pack is continuously monitored and checked to be within a preset range or target.

- Control filling with checkweighing lights to notify operators of weight status
- Optimize limits to control weight and operator speed
- Control multiple scales from central database
- Support normal and takeaway fill control
- Automatically record each weight by operator, product and other key data
- Works with Ethernet, Wi-Fi and serial interfaces

Part Number/Price

Part #	Description	Starting Package Price
Consult	Static Checkweighing	$5,605.00

FORKLIFT

Streamline material handling operations by integrating forklift scales to move and weigh pallets in one step. Straightforward prompts guide operators through each pallet transaction.

- Operator and product traceability
- Forklift performance statistics
- Real-time data sent to FTP
- Reports available in CSV or TXT files for data transfer

Part Number/Price

Part #	Description	Starting Package Price
Consult	Forklift	$6,975.00

OFFLINE SAMPLING

Offers close control of pack fills to meet legal requirements and limit profit loss. Powerful diagnostics help characterize filling performance and minimize fill variability issues. Provides legally accepted records as proof of due diligence.

- Operator warning displayed for individual and collective pack fill infringements, with calculated fill adjustments to maintain control target
- Includes library of statistical control strategies
- Records secure records for average weight, minimum weight and other legislations, as well as for SPC and quality control
- Density conversion for liquid fills
- Quarantine module available to record handling of defects

Part Number/Price

Part #	Description	Starting Package Price
Consult	Offline Sampling	$8,575.00

PALLET WEIGHING

Shipping and warehouse inventory systems greatly benefit from pallet weighing. Integrate data in real-time for live views of product quantities and shipping status.

- Accurate weighing and recording of pallets
- Integrates floor and fork scales into a single database
- Data analysis identifies shortages, overfills and process yields
- Labels pallets by makeup, customer, storage and other customer criteria

Part Number/Price

Part #	Description	Starting Package Price
Consult	Pallet Weighing	$6,975.00

WASTE

Optimize profits by identifying, measuring and reducing waste throughout your operation. Reductions in waste go straight to bottom-line profits.

- Monitors waste by type, product and department
- Records waste transactions for regulations
- Full traceability of all transactions
- Multiple sites can be networked back to regional and head offices for orders, accounts and reporting.
- Operator prompts guide the user quickly and smoothly though each transaction

Part Number/Price

Part #	Description	Starting Package Price
Consult	Waste	$6,975.00

TRACEABILITY (ADD-ON MODULE)

Minimizes business risk in the event of a quality failure by allowing quick response to identify affected items. Helps locate process issues related to customer complaints.

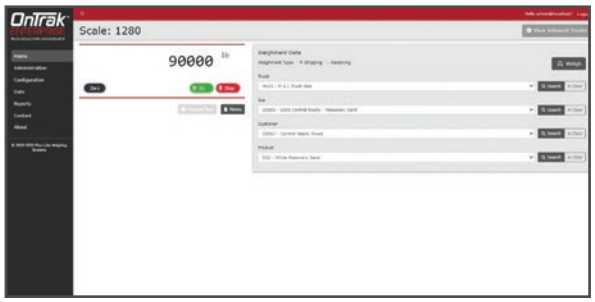
- Provides full traceability from intake to dispatch through all stages of production, supply and distribution
- Links traceability data through comprehensive, easy-to-use reports
- Every transaction includes time, date, lot numbers and operator identity for full accountability
- Instant forward and backward traceability of all materials and batches

Part Number/Price

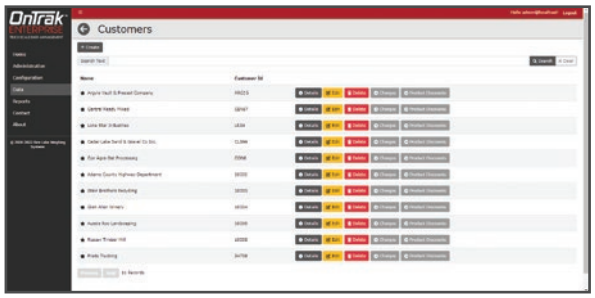
Part #	Description	Starting Package Price
Consult	Traceability	$1,995.00

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OnTrak® ENTERPRISE
TRUCK SCALE DATA MANAGEMENT



Weigh Screen



Customer Screen Main

Approvals

Part Numbers/Price

Part #	Description	Price
218502	OnTrak Enterprise Base Software	$3,495.00
Modules		
218503	License, Kiosk Module OnTrak Enterprise	$795.00
218504	License, API Module OnTrak Enterprise	$695.00
218505	License, Image Capture Module OnTrak Enterprise	$695.00
218506	License, LPR Module OnTrak Enterprise, License Plate Recognition	$595.00
231018	License, OnTrak Enterprise, Cloud Data Warehousing	$295.00
Annual Maintenance Agreements (AMA)		
218507	OnTrak Enterprise AMA for Base Software	$699.00
218508	OnTrak Enterprise AMA for Kiosk Module	$159.00
218509	OnTrak Enterprise AMA for API Module	$139.00
218510	OnTrak Enterprise AMA for Image Capture Module	$119.00
218511	OnTrak Enterprise AMA for LPR Module	$119.00
231017	OnTrak Enterprise AMA for Cloud Data Warehousing	$79.00

Note: Annual Maintenance Agreements (AMA) are required. Billable after year two.

Options/Accessories

Part #	Description	Price
Consult	Non-Rice Lake indicator interface (Customer must supply technical manual with indicator for creation of driver)	$295.00
Consult	Custom reports	$255.00/hour
104789	Phone support, one hour	$145.00

Standard Features

- Comprehensive transaction management
- Unlimited charge and discount amounts per product
- Calculates tax
- Ship or Receive mode for each transaction
- Assign one of four security levels to each user
- Exclusive databases for customer, hauler, truck, product, job, price/discount, tax and transaction
- Filter reports to view relevant information
- Customizable generated tickets
- Back up and restore through the included utility, or via SQL Server Management Studio available through Microsoft
- Software supports unlimited number of scales, number of scales supported is dependent on user's hardware
- Web server for on-premises access through the local area network, systems integration and data monitoring
- A supported web browser (Google® Chrome®, Microsoft® Edge®, Mozilla® Firefox® or Apple® Safari®)

Optional Features

- 1280 kiosk interface
- REST API
- Image capturing*
- License plate recognition*
- Automated 'real-time' transaction export to Azure Blob Storage or AWS S3**

**User must Purchase SQL Server Standard when using cameras for image capturing or license plate recognition*

***User must obtain their own Azure Blob Storage or AWS S3 account. Rice Lake does not provide cloud hosting.*

Specifications

Systems Requirements:
Windows® 10 or newer (x64 systems)

Databases:
10 GB max database size when using included Microsoft SQL Server Express
*Unlimited database size when using a purchased edition of Microsoft SQL Server (required when using image capturing or license plate recognition)

Communications:
Supports all Rice Lake indicator interfaces and 1280-based Automated Ticketing Kiosks
Interface to non-Rice Lake weigh indicators (call for details, indicator required for testing of created driver, Ethernet TCP/IP required)

Transaction Ticket:
User defined ticket formatting

Export Data:
File export of completed transactions via: XML, JSON, CSV or TXT

Software Support:
Database configuration, field installation and training available
Phone support packages available
Contact Rice Lake for further options

Approvals:
NTEP 23-098

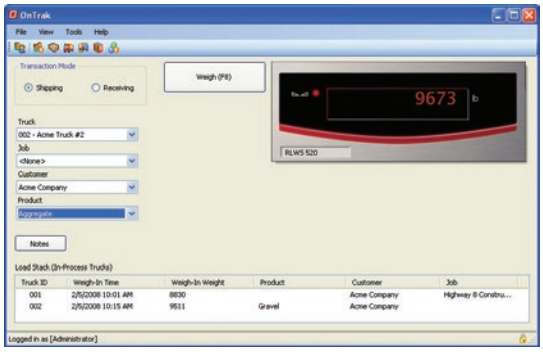
SOFTWARE SYSTEMS

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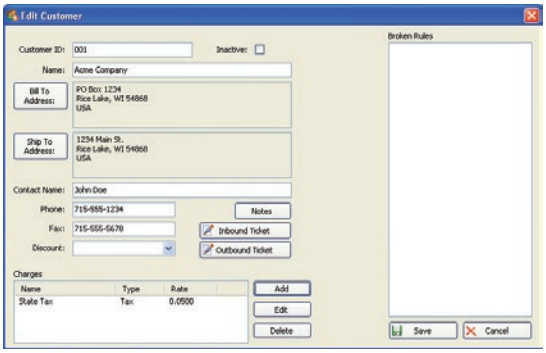
OnTrak®

Truck Scale Data Management Software

OnTrak®
TRUCK SCALE DATA MANAGEMENT



Weigh Scale



Customer Account Information

Approvals

NTEP

Part Numbers/Price

Part #	Description	Price
104787	OnTrak activation code	$1,495.00
101062	OnTrack Software, USB	$84.00

OnTrak trial at www.ricelake.com/ontrak

Options/Accessories

Part #	Description	Price
Consult	Non-Rice Lake indicator interface (Customer must supply technical manual with indicator for creation of driver)	$295.00
Consult	Custom reports	$255.00/hour
Consult	Database configuration	$255.00/hour
FLD-INSTALL	Field installation	$1,395.00/ weekday plus expenses
104789	Phone support, one hour	$145.00
101003	Additional OnTrak manual	$65.00

Standard Features

- Supports systems using Windows® 10 and newer
- Microsoft SQL Server Express client/server database (free edition)
- Comprehensive report filters
- User and administrator roles
- Back up and restore via SQL Server Management Studio freely available through Microsoft
- Unlimited charge/discount per product
- Ship or Receive mode for each transaction
- Exclusive database for: customer, hauler, truck, product, job, price/discount, tax, transaction
- Ethernet TCP/IP or RS-232 connectivity
- Supports VIRTUi/VIRTUi2® or Rice Lake weight indicators
- CSV transaction file export
- Supports one or two scales

Optional Features

- Image capture with Ethernet TCP/IP (requires SQL Server Standard or better through Microsoft)
- Interface to non-Rice Lake weight indicators (call for details, indicator and technical manual required for testing of created driver)
- Custom reports
- Database configuration
- Field installation and training
- Factory phone support

Specifications

System Requirements:
Windows® 10 and newer (x64 systems)

Databases:
10 GB max database size when using included Micosoft SQL Server Express
Unlimited database size when using a purchased edition (contact Microsoft for details on purchasing a licensed edition of SQL Server)

Communications:
Support for multiple printers
Supports all Rice Lake indicator interfaces
Supports VIRTUi/VIRTUi2 interface
920i® based Automated Ticketing Kiosks
Optional drivers available for non-Rice Lake weight indicators

Transaction Ticket:
User defined ticket formatting

Reports:
Comprehensive report filters
Optional custom reports

Export Data:
File transfer via XML transaction; exported reports can be saved as PDF/XLS; configurable transaction data export in CSV file format

Transaction Calculations:
Unlimited product prices and discounts
Tax calculations (does not integrate directly to financial software)

Software Support:
Database configuration, field installation and training available
Phone support packages available
Contact Rice Lake for further options

Approvals:
NTEP 05-107

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RL Web Display

Remote Scale Monitoring Software



Part Number/Price

Part #	Description	Price
219392	Software, RL Web Display remote display software	$695.00

Options/Accessories

Part #	Description	Price
Consult	Non-Rice Lake indicator interface (Customer must supply technical manual with indicator for creation of driver)	$295.00

Standard Features

- Replicates weight display for one or more indicators
- View live data remotely
- Multiple users can have a licensed installation
- ZERO key and Stop/Go commands function remotely

System Requirements

- Windows 10® build 1607 or newer (64 bit only) or equivalent Windows® Server OS
- 2.0 GHz processor or faster
- 250 MB drive space needed for install
- 8 GB ram or greater
- Ethernet TCP/IP connection
- A supported web browser (Google® Chrome®, Microsoft® Edge®, Mozilla® Firefox® or Apple® Safari®)

NOTE: Indicators and remote displays must be connected via Ethernet TCP/IP.

Compatible Instrumentation

- 1280 Enterprise™ Series
- 920i® Series
- 880/880 Plus Performance™ Series
- 820i™ Series
- 720i™ Series
- VIRTUi^{2}® PC-based HMI for iQUBE^{2}®
- 682 Synergy Series
- 680 Synergy Series
- SCT-2200 Advanced Series
- 480 Legend™ Series
- 420 Plus
- IQ Plus® 355
- IQ Plus® 710
- Avery Weigh-Tronix® E1105
- Avery Weigh-Tronix® WI127
- Mettler Toledo® 8530
- Cardinal® 738
- LaserLight2™ and LaserLight3™ in legacy mode

NOTE: Custom drivers available on request

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VIRTUi2®

PC-Based HMI for iQUBE2®



VIRTUi2 is a Windows®-based desktop application that works with iQUBE2 to replicate simple indicator functionality ideal for system integrators and OEMs wanting to provide a PC-based solution. Load cells are individually monitored and calibrated, making setup easy.

Approvals

Part Number/Price

Part #	Description	Price
108436	Activation part number - requires machine ID and customer's email address	$578.00

Standard Features

- Virtual front panel consists of display and five-button keypad
- Web browser-based iQUBE2 cell status
- Provides local and remote reporting of diagnostics and error conditions
- Up to four scales and one total scale
- Primary/secondary units configuration (lb, kg, short tons, metric tons, none)
- RS-232 communications
- Electronic Data Processing (EDP) port over RS-232 and TCP/IP
- Printer port for output-only, simplex communications
- Two print formats
- Provides iQUBE2 configuration screen and iQUBE2 digital I/O configuration
- Supports iQUBE2 diagnostics with configurable error viewing
- Peak weight history
- Recalibration notification
- Concentrated load capacity (CLC)
- Section capacity

Specifications

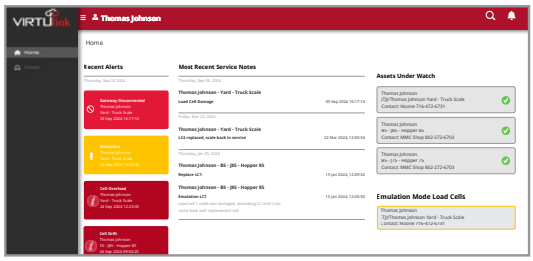
Minimum System Requirements:
Windows® 8.1 or newer

Serial port
USB to serial converter, or Ethernet TCP/IP for connection to iQUBE2
Additional serial ports are required for connections to printers/remote displays

Annunciators:
Units (lb, kg, short tons (tn), metric tons (t), NONE) gross/net, motion, center of zero

Approvals:
NTEP 04-058 Class III/IIIL, 10,000 d

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Home Screen for Service Provider



Standard Features

Data

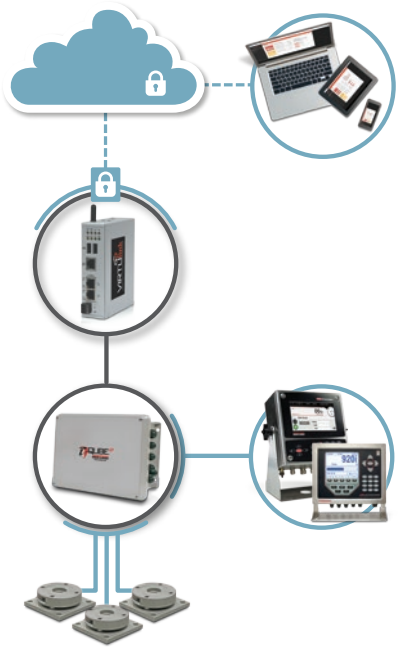
- Sends raw and analyzed values from the scale to the cloud
- Supports long-term efficiency by providing scale and throughput records
- Expandable with support for multiple data points from junction boxes, auxiliary equipment, sensors and IP cameras

Diagnostics

- Enhanced onboard diagnostics identify cell noise, tests for linearity and zero-reference, and monitors drift
- Diagnostics are complemented by a unique load cell emulation feature which compensates for a failing load cell until a repair can be made
- Unmatched reaction time (500 cycles per second) brings accuracy to new levels

Dashboard

- Online portal to monitor scale status in real-time
- Receive alert text and/or emails when scale is outside of programmable tolerances
- Remotely identify service needs and review technician notes
- Hosted on a cloud platform



Specifications

Communication:
Ethernet TCP/IP

Power Connector:
3-pin terminal block (3.5 mm)

Power Supply:
24 V DC ± 6 V DC

Conformity with UL:
Use Class 2 power source, Over-voltage Category II

Current (at 24 V DC):
170 mA (typical)

Operating System:
Security-hardened Linux

Display:
8 LEDs

Real-time Clock:
Capacitor buffered, maximum 7 days backup, maintenance free

Required Accessible Ports:
http (80)
https (443)
MQTT (1883)
MQTT over SSL (8883)
AMQP (5672)
AMQPS (5671)

Environment Protection:
IP20

Ambient Temperature:
Operation: -20 °C to 60 °C
Storage: -40 °C to 85 °C

Humidity:
10% to 95% (95% at 40 °C) RH (non-condensing)

Use:
Indoor

Dimensions:
5.5 × 1.38 × 4.13 in
(140 × 35 × 105 mm)

Weight:
0.89 lb (400 g)

Metal Housing:
DIN top hat rail mount

Approvals:
UL Nr. E221530 Vol D1
FCC ID 2ANEG0001
IC 24152-0001
KCC No. R-C-HKR-ETP51EN-RE
UL Japan No. 007-AH0211
RoHS
Conformance with EMC Directives: CE Emission EN 55011:2009
Immunity IEC 61000-6-2/3, EN 61131-2
Electrostatic discharge (ESD)
(air and contact discharge method) EN 61000-4-2
Fast transient interferences (Burst) EN 61000-4-4
Surge voltage EN 61000-4-5

SOFTWARE SYSTEMS

Part Numbers/Price

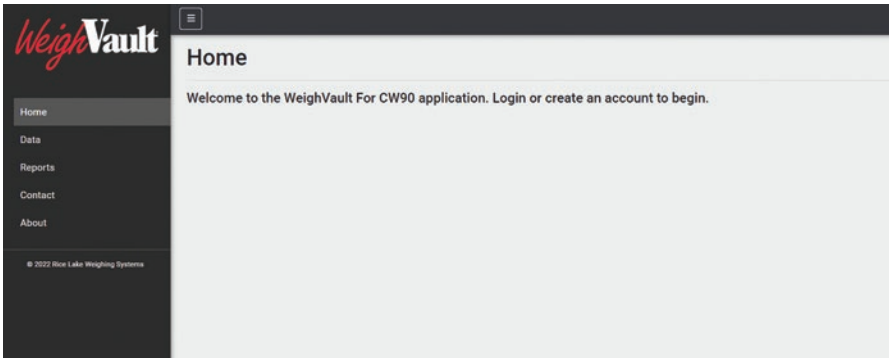
Part #	Description	Price
209604	VIRTUlink secure gateway	$1,885.00
215212	Power supply for VIRTUlink secure gateway, 3 wire AC power and DC hookup 24 VDC cord (12 in)	$273.00
215213	24 VDC output wall adapter, 100 to 240 VAC input, 12W	$48.00
211283	VIRTUlink cloud service contract, annual agreement	$1,260.00

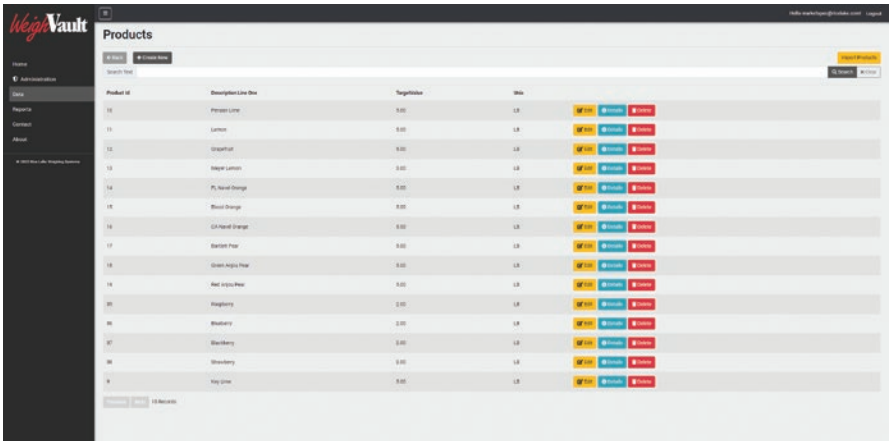
Specifications subject to change without notice.

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WeighVault®

Web Application with Middleware Services





Standard Features

- Specialized PC software makes data entry easy
- Boost product ID storage to nearly limitless potential, and manage as many scales as necessary
- Eliminates front-panel entry of ID parameters
- Quickly program, edit and manage scales and each unique product ID right from your PC
- Stores the details of each transaction for either a single scale or multiple scales
- Collects data as transactions occur and provides detailed transaction and productivity reports
- Allows users to add, edit and access IDs over a network connection
- A supported web browser (Google® Chrome®, Microsoft® Edge®, Mozilla® Firefox® or Apple® Safari®)

REST API designed to:

- Extend reach of WeighVault application
- Gain efficiencies for programmers integrating application specific content
- Enterprise dashboard view points
- Useful weight data related to IDs
- Boost system usage

Part Number/Price

Part #	Description	Price
117358	Software package, WeighVault for CW-90/90X	$265.00
125546	Software package, WeighVault for Counterpart	$265.00

Specifications

Minimum System Specifications:

CW-90X or Counterpart®
Also compatible with 1280 using counting and checkweighing programs
800+ MHz Intel® compatible processor
1 GB of RAM
750 MB hard drive space
TCP/IP connections to a CW-90, CW-90X or Counterpart

Recommended System Specifications:

1.0 GHz Intel compatible processor
2 GB of RAM
4 GB hard drive space
Windows® 10 or newer (x64 systems)
TCP/IP connections to a CW-90, CW-90X or Counterpart

Network Requirements:

The PC running the WeighVault service must have a static IP address
Known IP address and subnet of the host PC; if connecting via WLAN, known network SSID and security settings (pass keys and phrases)
Network policy must allow passwords of six characters

Counterpart Specifications



Data Registers:

- ID code [32 characters]
- Unit weight [6 places]
- Tare weight [6 places]
- Units field
- Parts name [32 characters]
- Part description [32 characters]
- Lot number [32 characters]
- Location [12 characters]
- Inventory quantity [7 characters]

Reports:

- Part
- Inventory
- Activity
- Location

CW-90/90 Specifications



Part Fields:

- Product ID [4 characters]
- Two descriptions fields [32 characters each]
- Target
- Tare
- Over
- Under
- Units

Reports:

- Transaction
- Productivity

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WinWedge®
Serial Device Data Collection Software

Standard Features

- Input scale or instrument data directly into Excel®, Access®, statistical software, LIMS, MMIs or any Windows® application
- Transfers RS-232 data quickly, accurately and formatted to your exact specifications
- Powerful DDE options for collecting data from multiple devices simultaneously
- Extremely easy to set up and use

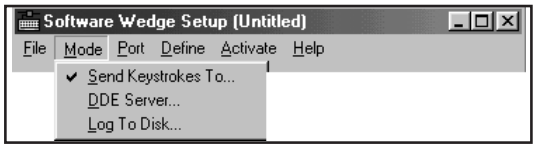
WinWedge Pro Additional Features:

- Support for even the most complex devices and serial I/O with advanced data parsing, filtering, formatting and translation
- RS-232 data collection and I/O support, TCP/IP included with Pro version
- More advanced device control options
- Additional features such as math functions and virtual instrument mode

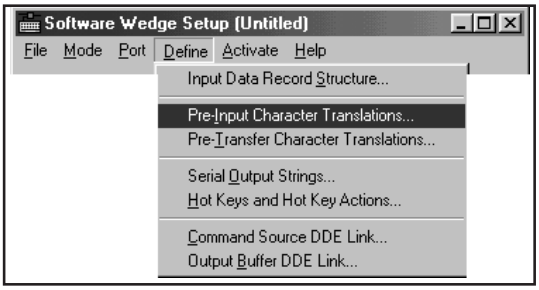
Part Number/Price

Part #	Description	Price
75351	WinWedge TAL software, 32 Std	$345.00
72304	WinWedge TAL software, 32 Pro, TCP/Wedge	$575.00

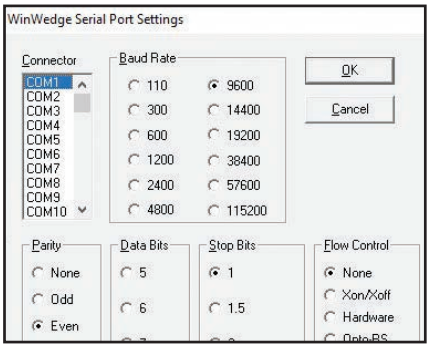
1. Select how you want the data collected:



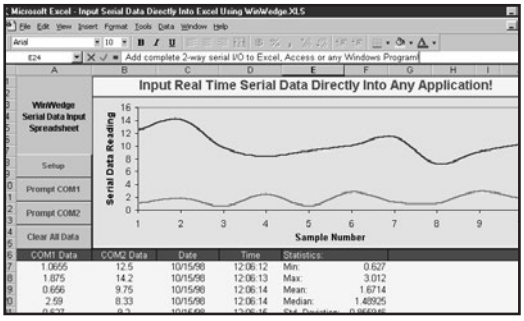
2. Choose the communication parameters for your serial device:



3. Define how you want the serial data to be parsed, filtered, and translated:



4. Activate WinWedge and watch your serial data "pop" into your application:



Specifications

System Requirements:
Any Windows PC
4 MB of RAM
2 MB of hard disk space

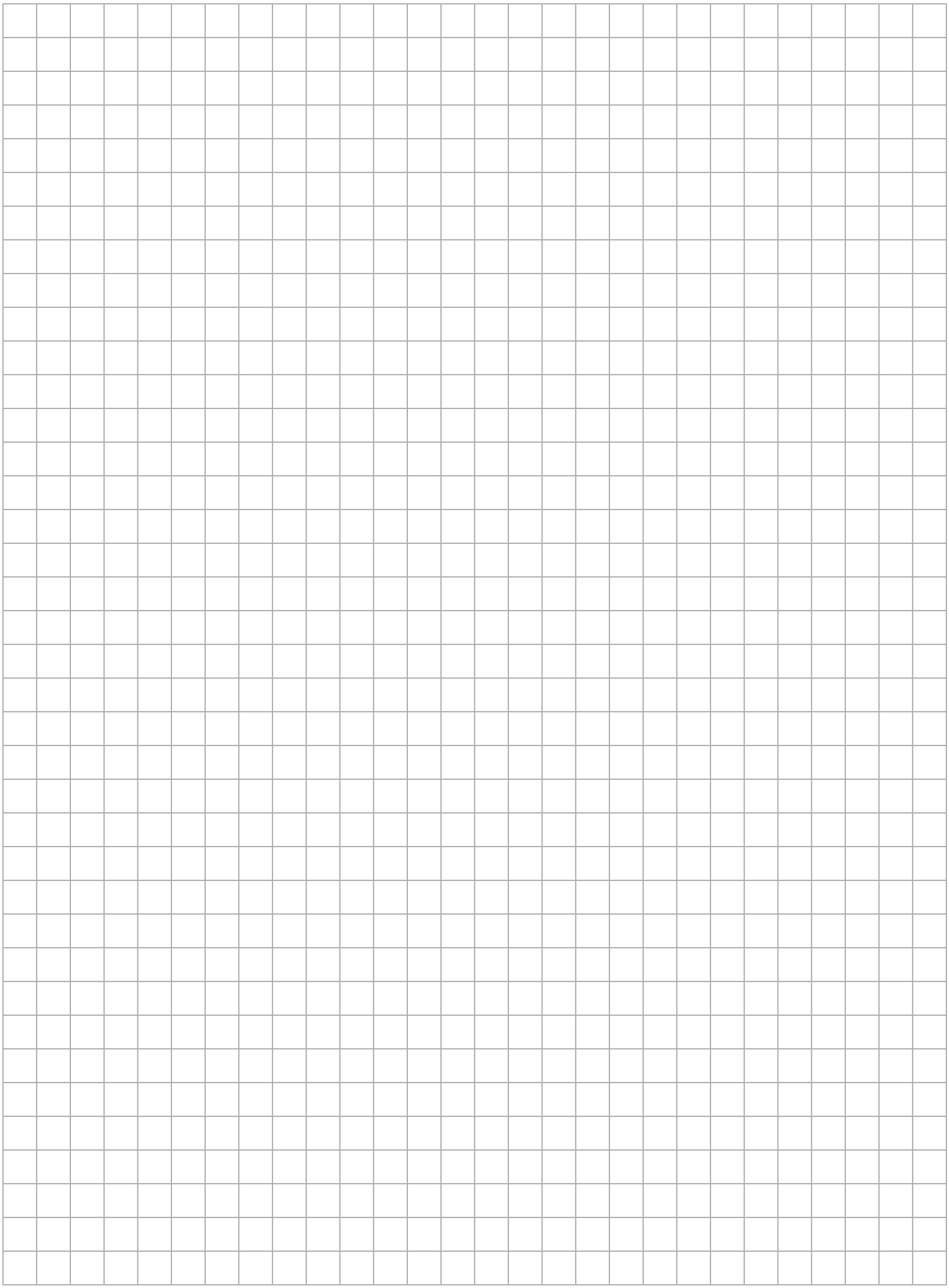
Communications:
WinWedge can collect data on any serial port (RS-232 or RS-485) and even on multiple ports simultaneously. Also supports full device control.

Software Support:
Rice Lake Weighing Systems offers field software support for our software packages. Contact our Service Department for software support. Software support is a chargeable service.

SOFTWARE SYSTEMS

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Vehicle Scales

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The following product names, logos, brands and other trademarks featured or referred to within this publication are the property of their respective trademark holders.

SURVIVOR® Truck and Rail Scales

For more information on Rice Lake's full line of SURVIVOR® truck and rail scales, please visit our website at www.ricelake.com or call 800-472-6703 and ask to speak with a heavy capacity team member.



Truck Scales:
www.ricelake.com/survivor

SURVIVOR OTR
Heavy-duty, top access, concrete or steel deck scales

SURVIVOR OTR-LP
Heavy-duty, steel deck, low-profile scale for existing foundations

SURVIVOR OTR-XV
Extreme-duty, top access, concrete or steel deck scales

SURVIVOR ATV
Heavy- or extreme-duty, top access portable steel deck scales

SURVIVOR SR
Heavy-duty, low-profile, concrete or steel deck siderail scales

SURVIVOR PT
Heavy-duty, pit-type, concrete or steel deck scales

SURVIVOR Multi-Platform
Weigh In-motion OTR concrete or steel deck scales

SURVIVOR ATV-M
Portable, self-contained levertronic, steel deck scales

SURVIVOR PT-M
Pit-type, levertronic, concrete deck scales

Rail Scales:
www.ricelake.com/railscales

SURVIVOR RT
Pit-type, rail/truck combination scales

SURVIVOR PL
Low-profile, pitless scales

RailBoss®
Full- or double-draft rail scales

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Refurbishment Program Available
for existing RailBoss scales



** Non-Legal for Trade*



RailBoss Calibration Tool

Approvals

FM APPROVED

Part Number/Price

Part #	Description	Est. Weight	Price
Kits			
164748	RailBoss assembly kit, full draft, 90 RA rail V2	2,280 lb	$40,900.00
164749	RailBoss assembly kit, double draft, 90 RA rail V2	1,150 lb	$20,400.00
193391	RailBoss assembly kit, full draft, 100 ARAA	2,500 lb	$41,100.00
193390	RailBoss assembly kit, double draft, 100 ARAA	1,100 lb	$20,500.00
215172	RailBoss assembly kit, full draft, 100 ARAA	2,300 lb	$46,000.00
188023	RailBoss assembly kit, double draft, 100 AREA	1,100 lb	$21,500.00
162515	RailBoss assembly kit, full draft, 115 RE rail V2	2,550 lb	$41,100.00
162516	RailBoss assembly kit, double draft, 115 RE rail V2	1,275 lb	$20,500.00
164752	RailBoss assembly kit, full draft, 132 RE rail V2	2,800 lb	$41,500.00
164753	RailBoss assembly kit, double draft, 13 2RE rail V2	1,400 lb	$20,800.00
194678	RailBoss assembly kit, full draft, 133 AREA	2,900 lb	$41,500.00
194679	RailBoss assembly kit, double draft, 133 AREA	1,450 lb	$20,800.00
169763	RailBoss assembly kit, full draft, 136 AREA	3,000 lb	$43,600.00
169762	RailBoss assembly kit, double draft, 136 AREA	1,500 lb	$21,900.00
Single Rail Gauge Assemblies			
164750	RailBoss 90 lb gauge assembly V2 (does not include cable)	290 lb	$5,400.00
193389	RailBoss 100 ARAA gauge assembly V2 (does not include cable)	300 lb	$5,400.00
188013	RailBoss 100 ARAA gauge assembly V2 (does not include cable)	320 lb	$5,400.00
162517	RailBoss 115 lb gauge assembly V2 (does not include cable)	320 lb	$5,400.00
164754	RailBoss 132 lb gauge assembly V2 (does not include cable)	350 lb	$5,400.00
194677	RailBoss 133 AREA gauge assembly V2 (does not include cable)	370 lb	$5,400.00
169761	RailBoss 136 AREA gauge assembly V2 (does not include cable)	390 lb	$5,400.00

NOTE: Instrumentation with RailBoss software must be ordered separately and is not included with the RailBoss assembly kit

Standard Features

- Full-draft or double-draft
- 80,000 lb axle capacity
- 320,000 lb full scale capacity
- 40,000 lb rail section capacity
- 90 RA, 100 ARA-A, 115 RE, 132 RE, 133 RE or 136 RE rail sections
- 5 ft 10 in rail sections, pre-drilled for joint bars
- Quick-disconnect cable connection with MS style connector

Full-draft Package Includes

- Eight 5 ft 10 in rail sections
- 30 ft of connecting cable per rail section
- Pre-drilled joint bars with connection hardware
- Two Rice Lake junction boxes with transient protection
- 30 ft of homerun cable

Double-draft Package Includes

- Four 5 ft 10 in rail sections
- 30 ft of connecting cable per rail section
- Pre-drilled joint bars with connection hardware
- One Rice Lake junction box with transient protection
- 30 ft of homerun cable

Optional Features

- Custom rail sizes are available
- 1280 Enterprise™ Series indicator with RailBoss software for full-draft or double-draft applications*
- 920i® indicator with RailBoss software for full-draft or double-draft applications*
- Custom cable lengths

**Non-Legal for Trade*

Calibration Unit Standard Features

- 482 Legend® Series indicator
- Attachment hardware for 90 RA, 115RE and 132RE rail

Specifications

Load Cells:
40,000 lb

Accuracy:
± 0.25% error typical, interchangeable with other gauged rail products

Full Scale Output:
0.8 mV/V ± 0.2%

Input Resistance:
765 ± 5 ohm

Output Resistance:
700 ± 5 ohm

Full Scale Capacity:
320,000 lb

Axle Capacity:
80,000 lb

Warranty:
Two-year limited

Intrinsic Safety:
cFMus
Class I, II, III, Division 1, Groups ABCDEFG
T4

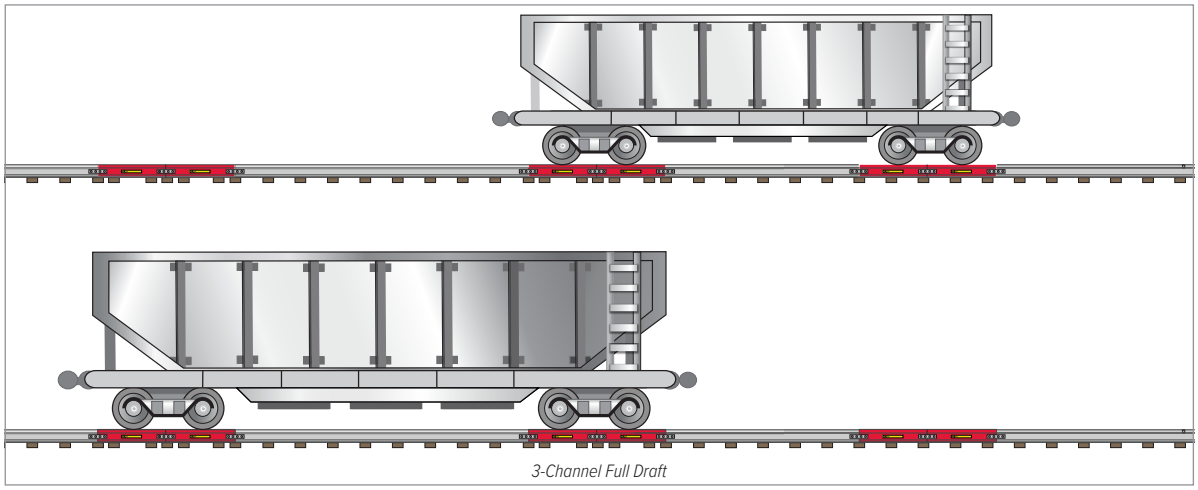
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Part Number/Price

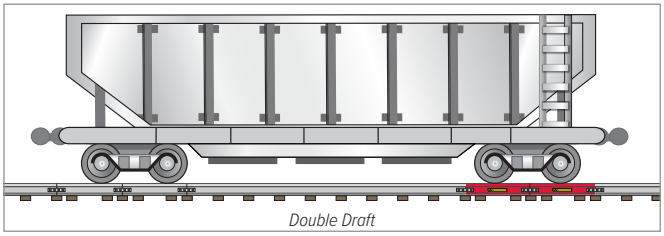
Part #	Description	Est. Weight	Price
Instrumentation			
190949	Single-channel 1280 indicator double draft with RailBoss software	11 lb	$3,850.00
190951	Dual-channel 1280 indicator full draft with RailBoss software	11 lb	$4,050.00
190952	Three-channel 1280 indicator full draft with RailBoss software	11 lb	$4,525.00
Hardware			
126391	90 RA 24 in short toe joint bar set, 4 sets required (2 bars with bolts and nuts)	40 lb	$1,350.00
129620	100 RE short toe joint bar set, 4 sets required (2 bars with bolts and nuts)	58 lb	$1,225.00
193468	100 ARAA short tow joint bar set, 4 sets required (2 bars with bolts and nuts)	45 lb	$1,225.00
126389	115 RE 24 in short toe joint bar set, 4 sets required (2 bars with bolts and nuts)	50 lb	$1,050.00
126390	132 RE 24 in short toe joint bar set, 4 sets required (2 bars with bolts and nuts)	60 lb	$1,225.00
194674	133 AREA short tow joint bar set, 4 sets required (2 bars with bolts and nuts)	70 lb	$1,225.00
126390	136 AREA short tow joint bar set, 4 sets required (2 bars with bolts and nuts)	80 lb	$1,225.00
126111	90 RA isolation joint bar set, 4 sets required (2 bars with bolts and nuts)	40 lb	$1,225.00
112702	115 RE isolation joint bar set, 4 sets required (2 bars with bolts and nuts)	50 lb	$1,225.00
119771	132 RE isolation joint bar set, 4 sets required (2 bars with bolts and nuts)	60 lb	$1,225.00
194673	133 AREA isolation joint bar set, 4 sets required (2 bars with bolts and nuts)	70 lb	$1,225.00
194344	136 AREA isolation joint bar set, 4 sets required (2 bars with bolts and nuts)	80 lb	$1,225.00
198086	100 RA isolation joint bar set, 4 sets required (2 bars with bolts and nuts)	-	$1,225.00
163004	30 ft interface cable	-	$625.00
164873	60 ft interface cable	-	$775.00
164874	100 ft interface cable	-	$1,050.00
188909	Adapter cable from AWT Weighline to Rice Lake RailBoss	-	$650.00
Calibration Equipment			
115564	RailBoss calibration/test unit	300 lb	$12,900.00
119068	RailBoss calibration/test until rental (one week)	300 lb	$800.00
208171	Coupler, flush face, no drip for Enerpac FR400 pump	-	$425.00

NOTE: Instrumentation with RailBoss software must be ordered separately and is not included with the RailBoss assembly kit.

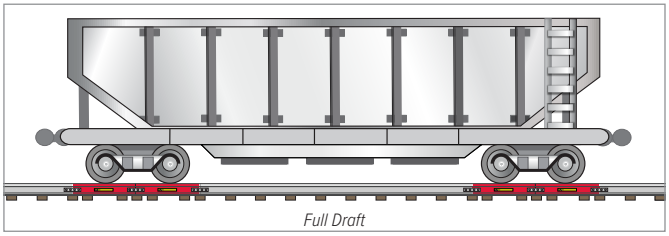
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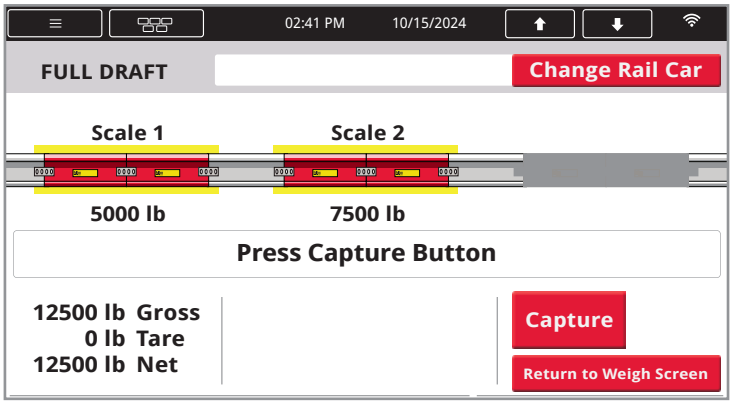
3-Channel Full Draft



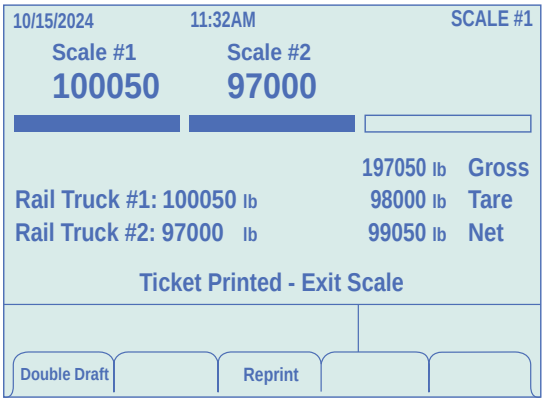
Double Draft



Full Draft



Full-draft RailBoss software display with a 1280 indicator



Double-draft RailBoss software display with a 920i indicator

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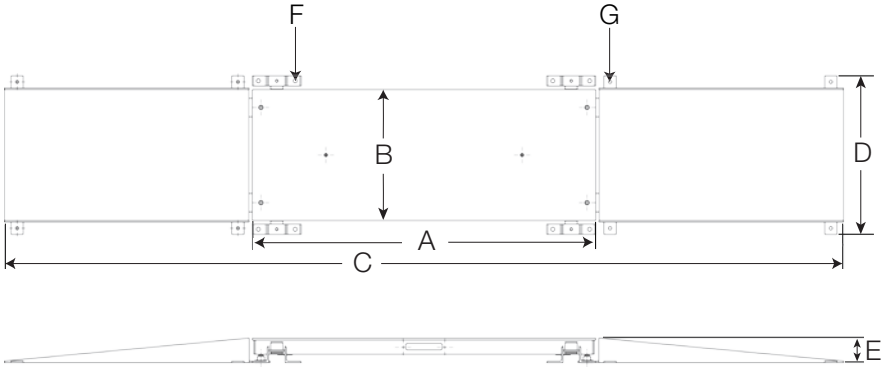
RoughDeck® AX

Tandem Axle Scale



Part Number/Price

Part #	Description	Dimensions (L × W × H)	Est. Weight	Price
107637	60,000 lb (30,000 lb each)	84 × 32 × 6 in	3,600 lb	$17,495.00



Standard Features

- System includes two platforms with anchor brackets and four on/off ramps with anchor tabs (anchor bolts not included)

Scale

- (L × W × H) 84 × 32 × 6 in
- Axle capacity, tandem platforms: 60,000 lb (two scales 30,000 lb each)
- Includes two 3/4-10 NC eye bolts for lifting scale during installation
- Contains four environmentally sealed, IP67 20,000 lb single-ended shear beam load cells per platform
- Treaded top plate with side access junction box
- JB4SS TuffSeal® signal trim junction box
- Top access foot adjustment holes
- Carbon steel captured ball feet
- 20 ft SURVIVOR® EL147HE cable
- Non-Legal for Trade

Ramps

- (L × W × H) 60 × 32 × 6 in
- Treaded top plate

Specifications

End Loading Capacity:
133% full scale at 30,000 lb

Warranty:
Load cells: Two-year
All other components: One-year limited

Dimensions

RoughDeck AX	
A	84.00 in
B	32.00 in
C	205.50 in
D	38.75 in
E	6.00 in
F	1.00 in
G	0.75 in

Note: 1 in = 25.4 mm

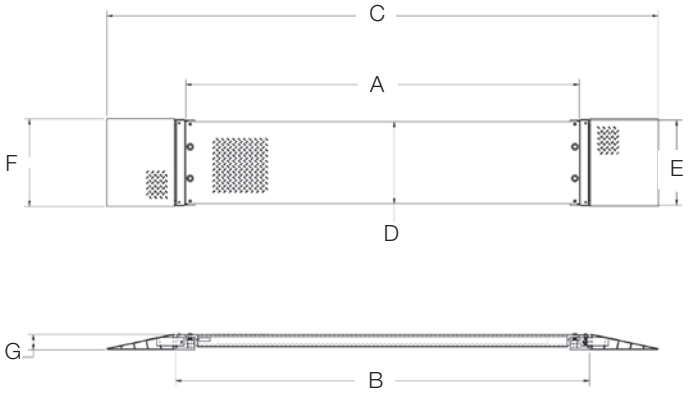


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Part Number/Price

Part #	Description	Dimensions (L × W × H)	Est. Weight	Price
Steel Construction - Painted Black 2 Scales with Connecting Cables and 4 Ramps				
112330	60,000 lb (30,000 lb each)	7 ft × 2.5 ft × 5.63 in	2,500 lb	$15,595.00
111748	80,000 lb (40,000 lb each)	12 ft × 2.5 ft × 5.63 in	4,400 lb	$18,450.00
112328	80,000 lb (40,000 lb each)	14 ft × 2.5 ft × 5.75 in	5,200 lb	$24,495.00
Steel Construction - Painted Black 2 Scales with Connecting Cables, Without Ramps				
204097	60,000 lb (30,000 lb each)	7 ft × 2.5 ft × 5.63 in	2,500 lb	$13,095.00
204099	80,000 lb (40,000 lb each)	12 ft × 2.5 ft × 5.63 in	4,400 lb	$15,950.00
204100	80,000 lb (40,000 lb each)	14 ft × 2.5 ft × 5.75 in	5,200 lb	$21,995.00
Aluminum Construction - Glass Beaded 2 Scales with Connecting Cables and 4 Ramps				
112329	60,000 lb (30,000 lb each)	7 ft × 2.5 ft × 5.63 in	1,250 lb	$18,375.00
Aluminum Construction - Glass Beaded with Connecting Cables, Without Ramps				
204101	60,000 lb (30,000 lb each)	7 ft × 2.5 ft × 5.63 in	1,250 lb	$15,395.00
Ramps with Hardware (Qty. 2)				
204102	(2) Ramps steel construction - painted black with hardware			$1,265.00
204103	(2) Ramps aluminum construction - glass beaded with hardware			$1,495.00





Standard Features

Scales

- Sizes: 7 ft, 12 ft and 14 ft lengths
- Steel or aluminum construction
- Axle capacity, tandem platforms: 60,000 or 80,000 lb (30,000 or 40,000 lb each)
- Includes four 5/8-11 NC eye bolts for lifting scale during installation
- Contains two load cells per platform
- Treaded top plate with four lifting eyes
- JB4SS TuffSeal® signal trim junction box
- 10 ft EL146HE Interconnect cable with MS-type connectors to go between weigh pads
- 50 ft EL147HE cable to connect weigh pad to indicator
- Non-Legal for Trade

Ramps

- (L × W) 7 ft and 12 ft scales: 5.63 × 32.00 in, 14 ft scale: 5.75 × 32.00 in
- Steel or aluminum
- Anchor bolts not included

Specifications

Construction:
Steel or aluminum

Accuracy:
±3%

End Loading Capacity:
133% full scale at 30,000 lb
100% full scale at 40,000 lb

Warranty:
One-year limited

Dimensions

AX3040			
7 ft steel			
A	83.60 in	E	31.00 in
B	90.90 in	F	32.00 in
C	141.25 in	G	5.63 in
D	30.00 in		
12 ft steel			
A	143.60 in	E	31.00 in
B	150.90 in	F	32.00 in
C	201.2 in	G	5.63 in
D	30.00 in		
14 ft steel			
A	167.60 in	E	31.00 in
B	174.90 in	F	32.00 in
C	225.25 in	G	5.75 in
D	30.00 in		
7 ft aluminum			
A	83.60 in	E	31.00 in
B	90.90 in	F	32.00 in
C	141.25 in	G	5.63 in
D	30.00 in		

Note: 1 in = 25.4 mm

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RoughDeck® AX-1

Axle Scale



Part Number/Price

Part #	Dimensions (L ×W × H)	Capacity	Est. Weight	Price
Scale only				
169649	7.5 ft × 9.6 ft × 6.0 in	50,000 lb	3,350 lb	$17,375.00
169650	9.5 ft × 9.6 ft × 6.0 in	50,000 lb	4,150 lb	$19,575.00
169651	11.5 ft × 9.6 ft × 6.0 in	50,000 lb	5,500 lb	$21,735.00
Scale, bundled with scale frame				
169645	8.0 ft × 10.1 ft × 6.75 in	50,000 lb	4,350 lb	$19,995.00
169647	10.0 ft × 10.1 ft × 6.75 in	50,000 lb	5,400 lb	$22,675.00
169648	12.0 ft × 10.1 ft × 6.75 in	50,000 lb	7,000 lb	$26,895.00

Options/Accessories

Part #	Dimensions (L × W × H)	Est. Weight	Price
Scale frame only			
169652	8.0 ft × 10.1 ft × 6.75 in	1,000 lb	$3,040.00
169653	10.0 ft × 10.1 ft × 6.75 in	1,250 lb	$3,535.00
169654	12.0 ft × 10.1 ft × 6.75 in	1,500 lb	$5,395.00
Ramp, attaches to scale frame			
169655	10 × 4 ft, single ramp	1,600 lb	$3,545.00
169656	10 × 4 ft, ramp set	3,200 lb	$7,095.00
Ramp, attaches to scale			
169657 *	10 × 4 ft, single ramp	1,675 lb	$3,545.00
169658	10 × 4 ft, ramp set	3,350 lb	$7,095.00

**Consult factory for quote on riser plate for opposite end of scale.*



Scale shown with optional ramps

Standard Features

- Sizes: 7.5 ft, 9.5 ft or 11.5 ft lengths
- Capacity: 50,000 lb
- Includes two 1-8 NC eye bolts
- Contains four environmentally sealed, IP67, 20,000 lb single-ended load cells
- Treaded top plate
- JB4SS TuffSeal® signal trim top access junction box
- Top access foot adjustment holes
- Carbon steel captured ball feet
- 20 ft SURVIVOR® EL147HE cable
- Non-Legal for Trade

Options:

- Ramps: 10 × 4 ft, treaded top plate
- Scale frame

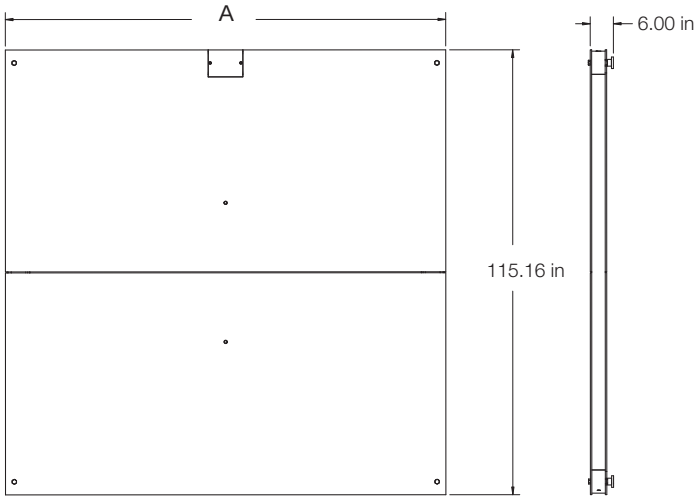
Specifications

End Loading Capacity:
80% full scale at 50,000 lb

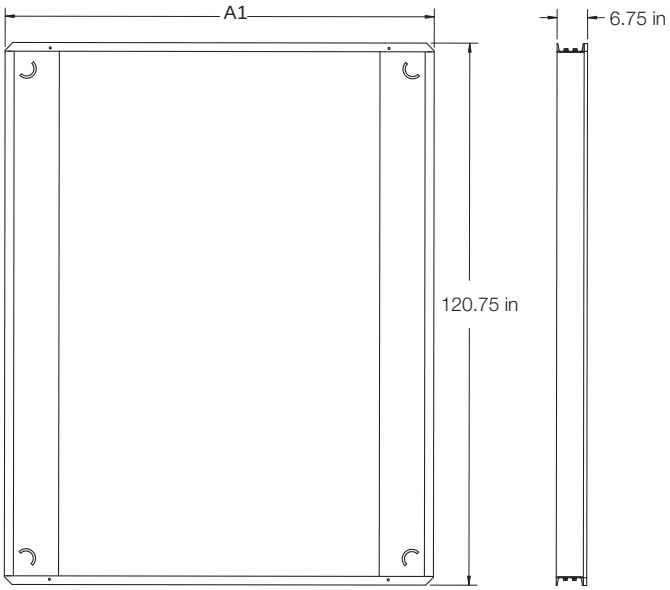
Warranty:
Load cells: Two-year
All other components: One-year limited

VEHICLE SCALES

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Scale



Scale frame

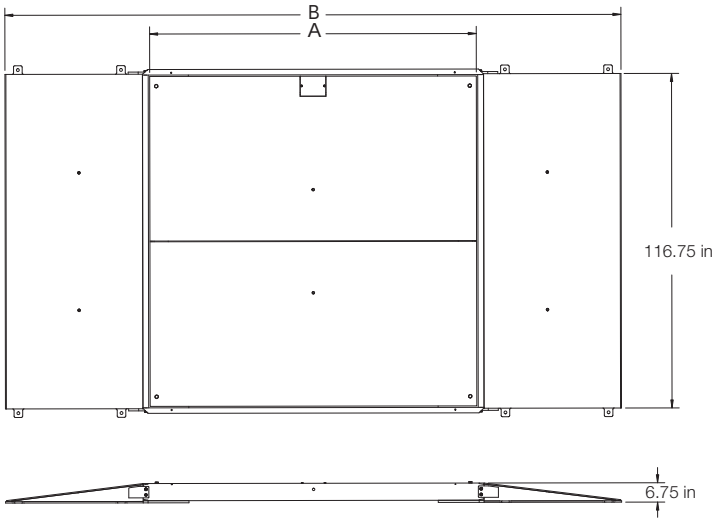
Dimensions

RoughDeck AX-1	
PN 169649	
A	90.00 in
PN 169650	
A	114.00 in
PN 169651	
A	138.00 in

Note: 1 in = 25.4 mm

PN 169652	
A1	95.75 in
PN 169653	
A1	119.75 in
PN 169654	
A1	143.75 in

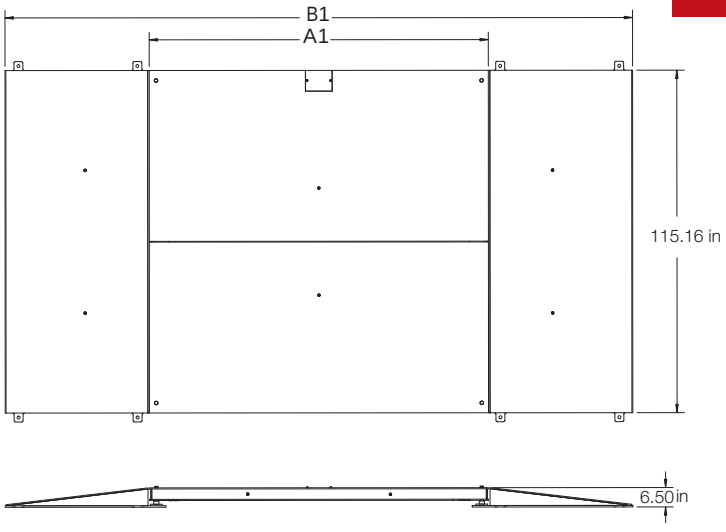
Note: 1 in = 25.4 mm



Scale in scale frame with ramps

PN 169645			
A	90.00 in	B	191.75 in
PN 169647			
A	114.00 in	B	215.75 in
PN 169648			
A	138.00 in	B	239.75 in

Note: 1 in = 25.4 mm



Scale with ramps

PN 169649			
A1	90.00 in	B1	187.00 in
PN 169650			
A1	114.00 in	B1	211.00 in
PN 169651			
A1	138.00 in	B1	235.00 in

Note: 1 in = 25.4 mm

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Load Ranger

Wireless Wheel Pad Scale



Part Number/Price

Part #	Description	Est. Weight	Price
227314	Remote indicator with integrated printer in carrying case	15 lb	$2,200.00

Part #	Size (W × L × H), Capacity	Est. Weight	Price
RF-MD 2.4 GHz			
212096	1 ft 10 in × 1 ft 8 in × 2.28 in, 3,300 × 1 lb	40 lb	$2,295.00
212097	1 ft 10 in × 1 ft 8 in × 2.28 in, 6,600 × 2 lb	40 lb	$2,295.00
212098	1 ft 10 in × 1 ft 8 in × 2.28 in, 13,200 × 5 lb	40 lb	$2,295.00
212099	1 ft 10 in × 1 ft 8 in × 2.28 in, 22,000 × 10 lb	40 lb	$2,495.00
212100	1 ft 10 in × 1 ft 8 in × 2.28 in, 33,000 × 10 lb	40 lb	$2,495.00
RF-WD 2.4 GHz			
212101	2 ft 6 in × 1 ft 10 in × 2.28 in, 13,200 × 5 lb	65 lb	$2,875.00
212102	2 ft 6 in × 1 ft 10 in × 2.28 in, 22,000 × 10 lb	65 lb	$2,875.00
212103	2 ft 6 in × 1 ft 10 in × 2.28 in, 33,000 × 10 lb	65 lb	$2,875.00
RF-WD 2.4 GHz NTEP			
212835	2 ft 6 in × 1 ft 10 in × 2.28 in, 22,000 × 20 lb (NTEP Class IIII)	65 lb	$3,520.00
RF-XWD 2.4 GHz			
212104	3 ft 1 in × 2 ft × 2.28 in, 13,200 × 5 lb	105 lb	$3,520.00
212105	3 ft 1 in × 2 ft × 2.28 in, 22,000 × 10 lb	105 lb	$3,520.00
212106	3 ft 1 in × 2 ft × 2.28 in, 33,000 × 10 lb	105 lb	$3,520.00
212107	3 ft 1 in × 2 ft × 2.28 in, 44,000 × 20 lb	105 lb	$3,520.00

Options/Accessories

Part #	Description	Price
181881	Aluminum ramp for Load Ranger MD models (single ramp only)	$280.00
181882	Aluminum ramp for Load Ranger WD models (single ramp only)	$310.00
181883	Aluminum ramp for Load Ranger XWD models (single ramp only)	$340.00
182053	Printer paper roll, 57 mm x 30 m, 12 mm core 51 mm OD	$3.00
185064	Load Ranger wheel pad charger, 110 VAC version with US plug	$130.00
192591	Load Ranger Ai-1 remote indicator power adapter, 120-230 VAC version with US plug	$95.00

Note: Bluetooth models are discontinued,
2.4 GHz models are not compatible with discontinued Bluetooth models without upgrade kits.

Standard Features

- Up to 16 individual pads communicate wireless to the indicator
- Industrial RF radio module to communicate with optional indicator
- Integrated wheels and nonslip rubber under platform
- Internal rechargeable battery with 40 hours of battery life
- Built-in indicator on each scale with 1 in character display
- IP67 rating
- Cover plate protects built-in indicator

Optional Remote Indicator with Integrated Printer in Carrying Case

- ABS carrying case: 1 ft × 1 ft 6 in × 7 in
- Backlit graphic display with touchscreen technology
- Internal battery with 10 hours of battery life
- Real-time clock
- Permanent data storage
- Direct thermal receipt printer

Wheel Weighing Software

- Multi-scale function mode weighs with up to 16 individual pads (eight sets)
- Static axle weighing function, up to two channels
- Calculation of center of gravity
- Semi-automatic and preset tare
- Selection of displayed data on LCD touchscreen
- 1,000 field database
- Print and display list of last 3,500 vehicles

Options/Accessories

- Leveling modules
- Aluminum ramps
- NTEP Class IIII *(Select sizes and capacities only, consult factory for more information)*

Specifications

Power:
Battery: NIMH, 6VDC, 4.5Ah, rechargeable. approx 40 hours
Charger: 120 VDC, UL approved wall adapter

Display:
1 in character display on each scale

System Accuracy:
0.05% of rated capacity

Communication:
Wireless 2.4 GHz

Construction:
Aluminum alloy

Temperature:
Operating:
14 °F to 104 °F (-10 °C to 40 °C)
Storage:
-4 °F to 140 °F (-20 °C to 60 °C)

Effective Wireless Communication Range:
Up to 160 ft (50 m) line of sight typical

Warranty:
Two-year limited

Approvals:
NTEP 20-003P Class IIII

NTEP Class I I approved for law enforcement.

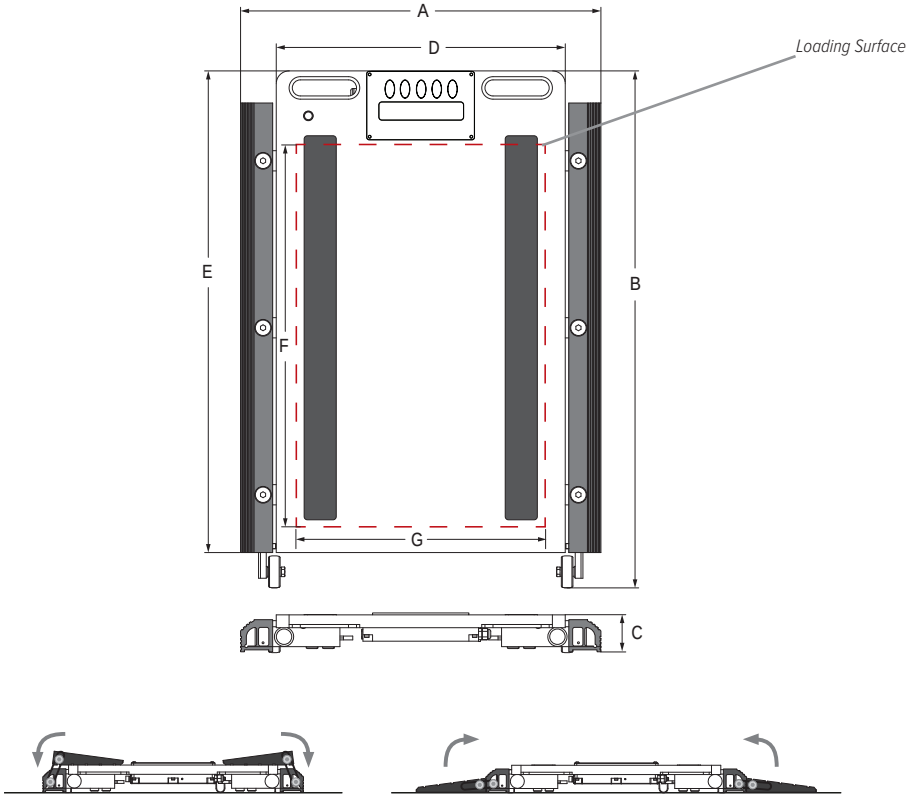
VEHICLE SCALES

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Dimensions

Platform			
	RF-MD	RF-WD	RF-XWD
A	1 ft 8 in (511 mm)	1 ft 10in (564 mm)	2 ft (611 mm)
B	2 ft (611 mm)	2 ft 8 in (813 mm)	3 ft 3 in (991 mm)
C	2.28 in (58 mm)	2.28 in (58 mm)	2.28 in (58 mm)
D	1 ft 4 in (406 mm)	1 ft 6 in (457 mm)	1 ft 8 in (511 mm)
E	1 ft 10in (564 mm)	2 ft 6 in (750 mm)	3 ft 1 in (950 mm)

Loading Surface			
	RF-MD	RF-WD	RF-XWD
F	1 ft 3 in (381 mm)	1 ft 11 in (584 mm)	2 ft 5 in (737 mm)
G	1 ft 4 in (406 mm)	1 ft 6 in (457 mm)	1 ft 8 in (511 mm)



Optional aluminum ramps

VEHICLE SCALES

Load Ranger Cart

Transport Cart



Standard Features

- Can hold up to four, six or eight Load Ranger wheel pads (with or without optional ramps) and one Load Ranger remote indicator case
- Two swivel, locking casters and two rigid casters to insure the safety of the scales during transit
- Painted mild steel
- Bottom surface, heavy duty plastic to offer scratch resistance for Load Rangers
- Integrated forklift channels
- Cam latch closures
- AC power strip, US plug

Specifications

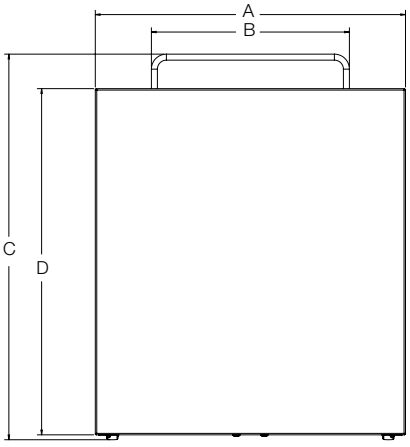
Warranty:
One-year limited

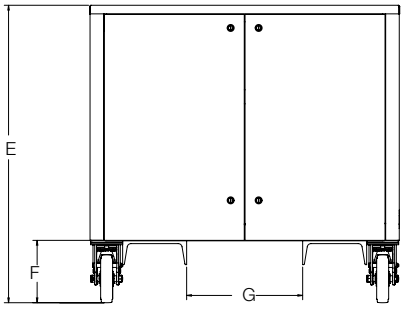
Part Number/Price

Part #	Description	Est. Weight	Price
225058	Load Ranger transport cart for up to 4 Load Ranger wheel pads	480 lb	$3,995.00
203078	Load Ranger transport cart for up to 6 Load Ranger wheel pads	540 lb	$4,595.00
221488	Load Ranger transport cart for up to 8 Load Ranger wheel pads	610 lb	$5,595.00

Dimensions

Load Ranger Cart, 4 Bay			
A	31.80 in (808 mm)	E	37.17 in (944 mm)
B	24.75 in (629 mm)	F	7.80 in (198 mm)
C	47.87 in (1,216 mm)	G	9.26 in (235 mm)
D	43.50 in (1,105 mm)		
Load Ranger Cart, 6 Bay			
A	40.80 in (1,036 mm)	E	37.17 in (944 mm)
B	24.75 in (629 mm)	F	7.80 in (198 mm)
C	47.87 in (1,216 mm)	G	16.25 in (413 mm)
D	43.50 in (1,105 mm)		
Load Ranger Cart, 8 Bay			
A	50.30 in (1,278 mm)	E	37.17 in (944 mm)
B	24.75 in (629 mm)	F	7.80 in (198 mm)
C	47.87 in (1,216 mm)	G	25.75 in (654 mm)
D	43.50 in (1,105 mm)		





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RICE LAKE®
WEIGHING SYSTEMS

CORPORATE OFFICE
230 W. Coleman Street, Rice Lake, WI 54868 USA
USA: 800-472-6703 | Direct: 715-234-9171 | Fax: 715-234-6967

Canada: +1-800-321-6703 | Mexico: +52 81 8356 5062
Europe: +39 0536 843418 | China: +86 21 66314055
International Direct: +1-715-234-9171

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