

PRODUCT CATALOG



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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 (CST):

Monday through Friday 8:00 AM to 5:30 PM Central European Time

International Field Sales



Manuel Talancon International Sales Director



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Jose Mathew Middle East/Asia/Africa 715-434-5048



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Customer Service Contacts Continued

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.

Corporate Office Customer Service Hours (Central Standard Time): Monday through Friday 6:30 AM to 6:30 PM; Saturday 8:00 AM to Noon

Customer Relations



Mark O. Johnson Chief Executive Officer



Mark Johnson, Jr. President



Steve Parkman Chief Operating Officer



Nick Peterson Chief Financial Officer



Joe Grell
Vice President Heavy
Capacity



Steve Hersman
Vice President of
Global Sales



Tom Kowalski Vice President of Technology



Patrick Ranfranz Director of Marketing



Tom Guest Sales Resource Manager



Tim Donahue Senior Manager, Product Management



Guru Ganesh Managing Director, India



Walter Hendriks Managing Director, Europe



Dominic Hodkiewicz Vice President of Manufacturing



Kevin Marshall Logistics Manager



Jim NorvidDirector of Mechanical Engineering



Brandi Harder Quality Manager



Massimo Corrandini General Manager Modena, Italy



Enrico Tosi Chief Financial Officer Modena, Italy

International Sales Support



Peter Allen Export Customer Service Supervisor



Jennifer Krahenbuhl



Gloria Miranda Habla Español



Bobbie Stiver Habla Español Parle Français

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Motiontrap™

MS-DOSTM

NatraSorb®

Motorola ColdFire®

ESC/POS®

Excel™

Explorer®

Fairbanks™

Terms and Conditions

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. Tenders which do not stipulate an acceptance period shall not be binding. Orders shall be subject to Rice Lake Weighing Systems' standard terms and conditions as printed below, subject to correction for clerical errors.

These sales terms and conditions shall be binding if declared applicable in the tender or in the order acknowledgement. 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 plant. 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, except that title and risk of loss or damage as to customer's partially manufactured parts and raw materials delivered to Rice Lake, and as to jigs, fixtures and tools specially ordered for the customer shall at all times remain with the customer.
- (b) Rice Lake does not carry fire insurance upon jigs, fixtures and tooling built by Rice Lake for customers or supplied to Rice Lake by customers, nor does Rice Lake carry insurance upon raw materials supplied to Rice Lake by customers. Customers assume all risk of loss, damage or destruction of jigs, fixtures, tooling or raw materials belonging to the customer in Rice Lake custody caused by fire, water, gas, natural disasters, strikes, insurrection, riots or by acts of the civil or military authorities and whether or not such loss, damage or destruction was the result of our negligence or misconduct or that of our agents or employees. The customer agrees to indemnify and hold Rice Lake harmless from all direct and consequential costs and damages resulting from such loss.

(c) Except as hereinabove stated, we agree to maintain all jigs, fixtures and tooling built by Rice Lake in working condition for their normal life only, except that our liability in this respect shall not extend more than one year after the completion of the most recent production order.

3. Quantity, Materials and Tolerances

- (a) Unless dimensions are limited by a specific tolerance, it is understood that the production variations as published by Rice Lake will be acceptable.
- (b) Rice Lake will not be responsible for color, thickness variations, or flaws in sheets or parts from which fabrications are made, nor for other material variations beyond our control.
- (c) 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.
- (d) Unless otherwise specified, delivery of 10 percent more or less of completed parts than the quantity specified shall constitute fulfillment of this order and any excess not exceeding 10 percent shall be accepted and paid for by the customer.
- (e) In the event any raw material specified for incorporation into the product covered by this proposal shall become unavailable, Rice Lake shall notify the customer and the customer may direct Rice Lake to substitute available material for that originally specified; it being understood and agreed that the customer shall assume any and all consequences resulting from such substitution.

4. 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.

5. 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.

6. 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.

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Terms and Conditions

- (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.

7. 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.

8. 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.
- (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.

9. 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.

10. 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.

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.

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.

Warranties Standard Product Limited Warranty

Rice Lake Weighing Systems (Rice Lake) warrants that all Rice Lake brand 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, 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 nonconformities.

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 likenew 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 authorization number (RMA) 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. Call our Returns Department.
- 2. Please have your customer number and both the item description and problem for a repair.
- 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:

- The commercial invoice must include the following statement:
 - i. "These goods are being returned for maintenance under"
 - ii. Goods Made in the USA -- "HTS 9801.00.1012"
 - iii. Goods NOT made in the USA -- "HTS 9801.00.2500"
- 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.

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:
 - i. Goods Made in the USA -- "HTS 9801.00.1045"
 - ii. Goods NOT made in the USA -- "HTS 9801.00.2500"
- 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.

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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 necessarily 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 and from 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. Teach your Customers to retain the packing set. Please remember that due to the nature of the equipment, new packaging materials can be very expensive.

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

 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 the problem.
- 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.
- Clean the device of any loose debris or potential contaminants to our testing facility.
- 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 the "Statement of Decontamination Form" statement clearly visible.
- 6. Using Scotch tape or "speed" tape, tape 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.
- Use a large box that will provide a minimum of 3 inches of space around the device for loose-fill packing material.
- 8. Place a padding of foam or Styrofoam (at least 1inch 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.
- 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. Don't forget the Decontamination Form (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. For those utilizing the conveniences of the internet, we have an e-mail address dedicated to technical support. Please contact 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 extensions 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 the factory for exact pricing).

You may be asked about the possibility of a new replacement product. It may be in your customer's 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 that our hourly service rate on all current Rice Lake products. Contact the factory 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 known to cause cancer, birth defects or other reproductive harm. These chemicals may be in the products you purchase, or they may be exposed to you at home, at the workplace or within the environment. Proposition 65 enables Californians to make informed decisions about their exposures to these chemicals.

Rice Lake Weighing Systems wants to be proactive in regards to Proposition 65 and provide information about the products we produce, distribute and use to manufacture equipment we sell.

We are providing this warning based on the knowledge that one or more chemicals included in the California Proposition 65 list known to cause cancer, birth defects or other reproductive harm may be present in Rice Lake Weighing Systems products and workplaces.

WARNING: Chemicals listed in California
Proposition 65 known to cause cancer,
birth defects or other reproductive harm may be
present only in trace amounts or contained within Rice Lake

Weighing Systems products and proper encapsulation equipment. This warning is provided out of an abundance of caution to enable you to be an informed consumer.

More information about California Proposition 65 can be found at www.P65Warnings.ca.gov

Balances

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Looking for products?

Please visit www.ricelake.com/global for current product pricing or call our European office at +31 (0) 26 472 1319 to talk to an industry expert about our product offerings and customized solutions.

Equipoise SeriesCompact Balance



Standard Features

- Capacities between 300 g and 6.000 g
- Internal resolution: 1/600.000
- LCD display
- Quick response
- Accumulation, counting and percentage modes

Readability: 0,01 g-0,2 g

- 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)
- Standard RS-232 interface for connecting to printer or PC
- Plastic enclosure
- · AC adapter



Capacity: 300 g-6.000 g

Specifications

	EQ-300^	EQ-600^	EQ-1500	EQ-3000	EQ-6000	
Part#	165338	165339	165340	165341	132435	
Price	Consult	Consult	Consult	Consult	Consult	
Capacity	300 g	600 g	1.500 g	3.000 g	6.000 g	
Resolution	0,01 g	0,02 g	0,05 g	0,1 g	0,2 g	
Weighing Units	Gram, Carat, Ounce,	Ounce Troy, Pound, Penny	weight, Grain, Momme, Ho	ng Kong Tael, Singapore T	ael, Taiwan, Tael, Tola	
Operating Modes		Weighing, Perce	nt Weighing, Parts Countin	ıg, Accumulation		
Repeatability (+/-)	0,01 g	0,02 g	0,05 g	0,1 g	0,2 g	
Linearity (+/-)	0,02g	0,04 g	0,1 g	0,2 g	0,4 g	
Stabilization Time			2 seconds			
Operating Temperature			0° C to 40° C			
Weighing Chamber	170 x 145	5 x 80 mm	N/A	N/A	N/A	
Pan Size	Ø 120	Omm		122 mm x 142 mm		
Dimensions			180 x 220 x 85 mm			
Est. Ship Weight			3 kg			
Calibration Weight	300 g	600 g	1.500 g	3.000 g	6.000 g	
Power		AC adapter (12V/500	mA); internal rechargeab	le battery (6V/1,2Ah)		
Warranty		0	ne-year Limited Warrant	ty		
Return Policy		Rice Lake Standard Policy				

[^]Weighing Chamber

Equipoise Series Compact Balance

Part Number/Price

Part#	Model#	Capacity	Est. Weight	Price
165338	EQ-300	300 g x 0,01 g	2,7 kg	Consult
165339	EQ-600	600 g x 0,02 g	2,7 kg	Consult
165340	EQ-1500	1.500 g x 0,05 g	2,7 kg	Consult
165341	EQ-3000	3.000 g x 0,1 g	2,7 kg	Consult
132435	EQ-6000	6.000 g x 0,2 g	2,7 kg	Consult

Part#	Description	Price
41279	Printer cable, DB9M to 25-Pin M	Consult
103141	SP712 dot matrix printer, tear bar	Consult
119919	AbleCable RS-232/USB cable (requires 130789)	Consult
130789	Slim line null modem adapter	Consult
131135	Aluminum case	Consult
165183	AC adapter, 110-240 VAC, interchangeable plugs	Consult



PN 165183 Multi-range AC adapter and multi-plug

TE SeriesTuning Fork Enhanced Balance



Standard Features

• External weight calibration

Capacity: 220g - 15kg Readability: 0.001g - 0.1g

- Seven-segment (main) / 16-segment (sub) display
- Selectable modes: Weighing, Counting, Percentage, Coefficient, Specific Gravity, Statistics, Animal and Formulation
- Mono-Metal Tuning Fork Technology (MMTF) provides quick response and stability
- 30-step bar graph display
- 100-240 VAC adapter included
- AA dry-cell port, (150 hours continuous use with LCD backlight and communication signal ON)
- RS-232 & USB (Type B)
- Glass breeze break

Additional models are available with the approvals shown below. Please consult the factory for part numbers.



Specifications							
	TE-223	TE-623	TE-3202	TE-6202	TE-15001		
Part#	187600	186030	186035	186036	186037		
List Price	Consult	Consult	Consult	Consult	Consult		
Capacity	220 g	620 g	3,200 g	6,200 g	15,000 g		
Resolution	0.001 g	0.001 g	0.01 g	0.01 g	0.1 g		
Operating Modes	Weighin	g, Counting, Percentage,	Coefficient, Specific Gravi	ty, Statistics, Animal, For	mulation		
Repeatability		1 division					
Linearity			1 division				
Operating Temperature		41	I° F to 95° F (5° C to 35°	C)			
Pan Size	4.6 (118	in mm)		6.3 in x 7.1 in (160 mm x 180 mm)			
Dimensions		1 in x 11.8 in		10.4 in x 7.5 in x 3.4 in			
Difficusions	(270 mm x 208	mm x 301 mm)	(265 mm x 191.5 mm x 86 mm)				
RS-232 Specifications		Baud Rate 1200, 2400	, 480, 9600, 19200, 3840	00, 57600, 115200 bps			
Est. Ship Weight	6.5 lb	(3 kg)		6.0 lb (2.7 kg)			
Power		100-240 VAC ac	dapter, AA dry cell (batteri	es not included)			
Warranty		Fi	ve-year Limited Warran	ty			
Return Policy		R	lice Lake Standard Polic	у			
Gram	220 x 0.001 g	620 x 0.001 g	3,200 x 0.01 g	6,200 x 0.01 g	15,000 x 0.1 g		
Carat	1,100 x 0.01 ct	3,100 x 0.01 ct	16,000 x 0.1 ct	31,000 x 0.1 ct	75,000 x 1 g		
Pound	0.48 x 0.00001 lb	1.3 x 0.00001 lb	7 x 0.0001 lb	13 x 0.0001 lb	33 x 0.001 lb		
Ounce	7.7 x 0.0001 oz	21 x 0.0001 oz	110 x 0.001 oz	210 x 0.001 oz	520 x 0.01 oz		
Troy Ounce	7 x 0.0001 ozt	19 x 0.0001 ozt	100 x 0.001 ozt	190 x 0.001 ozt	480 x 0.01 ozt		
Grain Pennyweight Momme	3,300 x 0.1 GN	9,500 x 0.1 GN	49,000 x 1 GN	95,000 x 1 GN	230,000 x 10 GN		
Pennyweight	140 x 0.001 dwt	390 x 0.001 dwt	2,000 x 0.01 dwt	3,900 x 0.01 dwt	9,600 x 0.1 dwt		
11	58 x 0.001 mom	160 x 0.001 mom	850 x 0.01 mom	1,600 x 0.01 mom	4,000 x 0.1 mom		
MSG	47 x 0.001 MSG	130 x 0.001 MSG	690 x 0.01 MSG	1,300 x 0.01 MSG	3,200 x 0.1 MSG		
Tael (Hong Kong)	5.8 x 0.0001 TL	16 x 0.0001TL	85 x 0.001 TL	160 x 0.001 TL	400 x 0.01 TL		
Tael (Singapore)	5.8 x 0.0001 TL	16 x 0.0001TL	84 x 0.001 TL	160 x 0.001 TL	390 x 0.01 TL		
Tael (Taiwan)	5.8 x 0.0001 TL	16 x 0.0001TL	85 x 0.001 TL	160 x 0.001 TL	400 x 0.01 TL		
Tola	18 x 0.0001 to	53 x 0.0001 to	270 x 0.001 to	530 x 0.001 to	1,200 x 0.01 to		
Bat	14 x 0.0001 Bat	40 x 0.0001 Bat	210 x 0.001 Bat	400 x 0.001 Bat	980 x 0.01 Bat		
Milligrams	220,000 x 1 mg	620,000 x 1 mg	3,200,000 x 10 mg	6,200,000 x 10 mg	15,000,000 x 100 mg		

TE SeriesTuning Fork Enhanced Balance

Part Number/Price

Part#	Model#	Description	Price
187600	TE-223	220 g x 0.001 g	Consult
186030	TE-623	620 g x 0.001 g	Consult
186035	TE-3202	3,200 g x 0.01 g	Consult
186036	TE-6202	6,200 g x 0.01 g	Consult
186037	TE-15001	15,000 g x 0.1 g	Consult

Part#	Description	Price
186074	Power supply 100-240VAC, 50-60 Hz	Consult
186075	In-use dust cover 623 g models and lower	Consult
186076	In-use dust cover 3,200 g models and higher	Consult
186077	Specific Density Measurement Kit	Consult
186079	Ethernet TCP/IP option card	Consult

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Standard Features

Capacity: 620 g-6.200 g

Large, 16,5 mm-high, backlit liquid crystal display (LCD)

Readability: 0,01 g-0,1 g

- Selectable modes: Weight, Unit Count and Percentage
- 12 units of measurement
- Mono-Metal Tuning Fork Sensor (MMTF) provides quick response and stability
- · 20-step bar graph display
- 115VAC adapter included (230VAC optional)
- Semi-automatic calibration, external weight
- Plastic housing on models < 1.000 g, plastic top and die cast bottom on models > 1.000 g

Optional Features

- RS-232
- · Rechargeable battery

Specifications

opeemeanons				
	TC-620	TC-1200	TC-4200	TC-6200
Part#	107232	107233	107234	107235
Price	Consult	Consult	Consult	Consult
Capacity	620 g	1.200 g	4.200 g	6.200 g
Resolution	0,01 g	0,1 g	0,1 g	0,1 g
Operating Modes		Count, Percentage, Limit	Function (checkweighing)	
Repeatability		1 div	vision	
Linearity		1 div	vision	
Operating Temperature		5° C to	35° C	
Pan Size	139.7 mm	170.2 x 142.2 mm	177.8 x 1	157.5 mm
Dimensions	234 x 180 x 74 mm		264 x 191 x 86 mm	
Weight (Approx.)	1,3	1,3 kg 2,7 kg		′kg
Calibration Weight	600 g	1.200 g	4.000 g	6.200 g
Power			adapter	
Warranty			ited Warranty	
Return Policy		Rice Lake St	andard Policy	
Decimal Ounce	21 x 0,0005 oz	42 x 0,005 oz	140 x 0,005 oz	210 x 0,005 oz
Decimal Pound	1,3 x 0,00005 lb	2,6 x 0,0005 lb	9,2 x 0,0005 lb	13 x 0,0005 lb
Troy Ounce	19 x 0,0005 ozt	38 x 0,005 ozt	130 x 0,005 ozt	190 x 0,005 ozt
Pennyweight	390 x 0,01 dwt	770 x 0,1 dwt	2.700 x 0,1 dwt	3.900 x 0,1 dwt
Pennyweight Carat	3.100 x 0,05 ct	6.000 x 0,5 ct	21.000 x 0,5 ct	31.000 x 0,5 ct
Momme	160 x 0,005 mom	320 x 0,05 mom	1.100 x 0,05 mom	1.600 x 0,05 mom
Grain Unit	9.500 x 0,2 GN	18.000 x 2 GN	64.000 x 2 GN	95.000 x 2 GN
Tael (Hong Kong)	16 x 0,0005TL	32 x 0,005TL	110 x 0,005 TL	160 x 0,005 TL
Tael (Singapore, Malaysia, Taiwan)	16 x 0,0005TL	31 x 0,005TL	110 x 0,005 TL	160 x 0,005 TL
Tola	53 x 0,001 to	100 x 0,01 to	360 x 0,01 to	530 x 0,01 to

TC Series Tuning Fork Compact Balance

Part Number/Price

Part#	Model#	Description	Price
107232	TC-620	620 g x 0,01 g	Consult
107233	TC-1200	1.200 g x 0,1 g	Consult
107234	TC-4200	4.200 g x 0,1 g	Consult
107235	TC-6200	6.200 g x 0,1 g	Consult

Part#	Description	Price
107236	Rechargeable battery-TC-620, TC-1200, 32 hr	Consult
107237	Rechargeable battery-TC-4200, TC-6200, 32 hr	Consult
107238	RS-232 option with DIN-5-Pin connector (not compatible with battery option) (TC-620, TC-1200)	Consult
107239	RS-232 option with DIN-5-Pin connection (not compatible with battery option, (TC-4200,TC-6200)	Consult
107240	In-use dust cover, 620 g to 1200 g	Consult
107250	In-use dust cover, 4.200 g to 6.200 g	Consult
109236	Underweigh hook TC-620, TC-1200	Consult
109292	Underweigh hook TC-4200, TC-6200	Consult
42566	120 VAC adapter	Consult
42168	230 VAC adapter	Consult
107243	Additional operating manual	Consult
75351	WinWedge software	Consult
115303	Five-pin to nine-pin RS-232 cable	Consult
115148	RS-232 manual	Consult

TP SeriesTuning Fork Precision Balance



Standard Features

• External weight calibration

Capacity: 220g-12,000g

Large, 16,5 mm-high backlit liquid crystal display (LCD)

Readability: 0.001 g-0.1 g

- Selectable modes: Weight, Unit, Count and Percentage
- 12 units of measurement
- Mono-Metal Tuning Fork Sensor (MMTF) provides quick response and stability
- · 20-step bar graph display
- 115VAC adapter included (230VAC optional)
- One part in 620,000 resolution
- RS-232 bidirectional
- Plastic housing on models < 1.000 g, plastic top and die cast bottom on models > 1.000 g

Optional Features

· Rechargeable battery

Additional models are available with the approvals shown below. Please consult the factory for part numbers.



Specifications

•	TP-220^	TP-420NT^	TP-820	TP-1200NT	TP-3200	TP-4200NT	TP-6200NT	TP-8200	TP-12K
Don't #	-	-							
Part#	107244	108155	107245	163604	107246	108154	163606	107247	107248
Price	Consult	Consult	Consult	Consult	Consult	Consult	Consult	Consult	Consult
Capacity	220 g	420 g	820 g	1.200 g	3.200 g	4.200 g	6.200 g	8.200 g	12.000 g
Resolution	0,001 g	0,001 g	0,01 g	0,01 g	0,01 g	0,01 g	0,01 g	0,1 g	0,1 g
Operating Modes			Cou	nting, Percentag	je, Limit Functio	on (checkweighir	ıg)		
Repeatability					1 division				
Linearity					1 division				
Operating Tem- perature	5° C to 35° C								
Pan Size	116,	8 mm	167,6 x	139,7 mm		17	7,8 x 157,5 mm		
Dimensions		2 x 170 mm windshield)	235 x 18	32 x 75 mm	265 x 192 x 87 mm				
RS-232 Specifi- cations			Baud rate - 1	200/2400/2800	/9600; Data bit	s - 8, Connector	- DIN 5-Pin		
Est. Ship Weight		1,3 kg]				2,8 kg		
Calibration Weight	200 g	400 g	800 g	1.000 g	3.000 g	4.000 g	6.000 g	8.000 g	12.000 g
Power	120VAC adapter								
Battery Option	Nickel Cadmium battery, 12-hour run time, 24-hour charge time								
Warranty	Five-year Limited Warranty								
Return Policy	Rice Lake Standard Policy								

TP SeriesTuning Fork Precision Balance

Specifications (cont)

	TP-220^	TP-420NT^	TP-820	TP-1200NT	TP-3200	TP-4200NT	TP- 6200NT	TP-8200	TP-12K
Part#	107244	-	107245		107246	-		107247	107248
Decimal Ounce	7,7 x 0,00005 oz	14 x 0,001 oz	28 x 0,0005 oz	42 x 0,0005 oz	110 x 0,0005 oz	140 x 0,01 oz	210 x 0,001 oz	280 x 0,005 oz	420 x 0,005 oz
Decimal Pound	0,48 x 0,00001 lb	0,92 x 0,00001 lb	1,8 x 0,00005 lb	2,6 x 0,00005 lb	7,0 x 0,00005 lb	9,2 x 0,0001 lb	13 x 0,0001 lb	18 x 0,0005 lb	26 x 0,0005 lb
Troy Ounce	7 x 0,00005 ozt	16 x 0,0001 ozt	26 x 0,0005 ozt	38 x 0,0005 ozt	100 x 0,0005 ozt	130 x 0,001 ozt	190 x 0,001 ozt	260 x 0,005 ozt	380 x 0,005 ozt
Pennyweight	140 x 0,001 dwt		520 x 0,01 dwt	770 x 0,01 dwt	2.000 x 0,01 dwt	2.700 x 0,01 dwt	3.900 x 0,01 dwt	5.200 x 0,1 dwt	7.700 x 0,1 dwt
Carat	1.100 x 0,01 ct	2.100 x 0,01 ct	4.100 x 0,05 ct	6.000 x 0,05 ct	160.000 x 0,05 ct	21.000 x 0,1 ct	31.000 x 0,1 ct	41.000 x 0,5 ct	60.000 x 0,5 ct
Momme Momme	58 x 0,0005 mom		210 x 0,005 mom	320 x 0,005 mom	850 x 0,01 mom	1.100 mom	1.600 x 0,01 mom	2.100 x ,05 mom	3.200 x 0,05 mom
Grain Unit	3.300 x 0,02 GN	6.400 x 0,02 GN	12.000 x 0,2 GN	1.200 x 0,01 GN	48.000 x 0,2 GN	64.000 x 0,2 GN	95.000 x 0,2 GN	120.000 x 2 GN	180.000 x 2 GN
Tael	5,8 x 0,00005TL		21 x 0,0005TL		85 x 0,001 TL			210 x 0,005TL	320 x 0,005 TL
Tola	18 x 0,0001 to		70 x 0,001 to	100 x 0,001 to	270 x 0,001 to		530 x 0,001 to	700 x 0,01 to	1.000 x 0,01 to
Measurable Unit Weight in Counting Mode	0,03 g	0,03 g	0,03 g	0,01 g	0,3 g	0,3 g	0,3 g	3 g	3 g

[^]Weighing Chamber

Part Number/Price

Part#	Model#	Description	Price
107244	TP-220	220 g x 0,001 g	Consult
108155	TP-420NT	420 g x 0,001 g	Consult
107245	TP-820	820 g x 0,01 g	Consult
163604	TP-1200NT	1.200 g x 0,1 g	Consult
107246	TP-3200	3.200 g x 0,01 g	Consult
108154	TP-4200NT	4,200 g x 0,01 g	Consult
163606	TP-6200NT	6,200 g x 0,1 g	Consult
107247	TP-8200	8.200 g x 0,1 g	Consult
107248	TP-12K	12.000 g x 0,1 g	Consult

Part#	Description	Price
107249	Rechargeable battery	Consult
107237	Rechargeable battery	Consult
107250	In-use dust cover ≥ TP-3200	Consult
107240	In-use dust cover ≤ TP-1200	Consult
109236	Underweigh hook ≤ TP-1200	Consult
109292	Underweigh hook ≥ TP-3200	Consult
42566	115VAC adapter	Consult
42168	230 VAC adapter	Consult
107251	Additional operating manual	Consult
75351	WinWedge Tal software	Consult
115303	Five-pin to nine-pin DB female RS-232 cable	Consult

TA SeriesTuning Fork Analytical Balance



Standard Features

- Anti-electric 360° transparent windshield
- Eight-digit, 16.5 mm-high liquid crystal display (LCD) with backlight

Readability: 0.0001 g

- Single-touch response setting for environment
- 40-step bar graph display
- RS-232C interface

Capacity: 120g-220g

- ISO/GLP/GMP compliant printing record
- Underweigh hook included
- Internal calibration
- Plastic housing

Specifications

<u>Specifications</u>						
	TA-120^	TA-220^				
Part#	107396	107397				
Price	Consult	Consult				
Capacity	120 g	220 g				
Resolution	0,0001 g	0,0001 g				
Operating Modes	Counting, Percentage, Limit Function	on (checkweighing), Specific Gravity				
Repeatability	1 div	rision				
Linearity	1 div	rision				
Operating Temperature	10° C to 30° C 8	30% RH or lower				
RS232 Specifications	Baud rate - 1200/2400/4800/9600/19200 t	bps, 8/7 data bits, Parity bit-None/Odd/Even				
Pan Size	Size Ø 80 mm					
Dimensions	290 x 200	290 x 200 x 306 mm				
Weight (Approx.)	2,9	2,9 kg				
Calibration Weight	100 g	200 g				
Power	120 VAC	adapter				
Warranty	Five-year Lim	ited Warranty				
Return Policy	Rice Lake Sta	andard Policy				
Decimal Ounce	4,2 x 0,000005 oz	7,7 x 0,000005 oz				
Decimal Pound	0,26 x 0,000001 lb	0,48 x 0,000001 lb				
Troy Ounce Pennyweight Carat	3,8 x 0,000005 ozt	7 x 0,000005 ozt				
Pennyweight	77 x 0,0001 dwt	140 x 0,0001 dwt				
Ourat	600 x 0,0005 ct	1.100 x 0,001 ct				
Momme	32 x 0,00005 mom	58 x 0,00005 mom				
Grain Unit	1.800 x 0,002 GN	3.300 x 0,002 GN				
iaei	3,2 x 0,000005TL	5,8 x 0,00005TL				
Tola	10 x 0,00001 to	18 x 0,00001 to				

[^] Weighing Chamber

TA Series Tuning Fork Analytical Balance

Part Number/Price

Part#	Model#	Description	Price
107396	TA-120	120 g x 0,0001 g	Consult
107397	TA-220	220 g x 0,0001 g	Consult

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

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Bench Scales

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RL-SEBBench Scales



Specifications:

Load Cell, OIML Certified:

Stainless steel, IP67

Cable Length:

 $3 \, \text{m}$ Compensated Temperature Range: 0° C to 40° C

Warranty:

One-year limited warranty

Standard Features

- 304 stainless steel construction
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

Approvals





Part Number/Price





Part #	Dimensions L x W x H (mm)	Max (kg)	e* (g)	Price
185879	230 x 330 x 90	3	1	Consult
185880	230 x 330 x 90	6	2	Consult
185881	230 x 330 x 90	15	5	Consult
185882	330 x 330 x 90	6	2	Consult
185883	330 x 330 x 90	15	5	Consult
185884	330 x 330 x 90	30	10	Consult
185885	400 x 400 x 115	15	5	Consult
185927	400 x 400 x 115	30	10	Consult
185928	400 x 400 x 115	60	20	Consult
185929	400 x 400 x 115	150	50	Consult
185930	400 x 500 x 115	30	10	Consult
185931	400 x 500 x 115	60	20	Consult
185932	400 x 500 x 115	150	50	Consult
185933	500 x 500 x 115	60	20	Consult
185934	500 x 500 x 115	150	50	Consult
185935	600 x 600 x 137	60	20	Consult
185936	600 x 600 x 137	150	50	Consult
185937	600 x 600 x 137	300	100	Consult

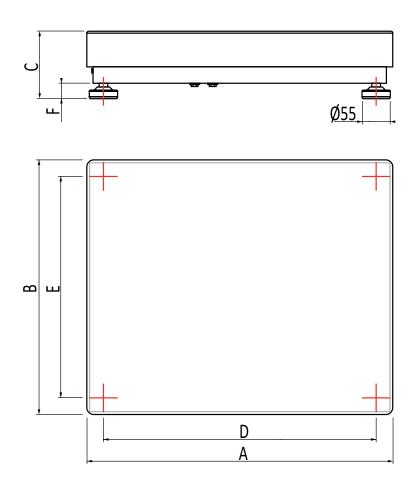
^{*}Certified division size for Legal for Trade application

Part #	Description	Price
188201	Stainless steel column 350 mm with stainless steel fixings	Consult
188202	Stainless steel column 500 mm with stainless steel fixings	Consult
188203	Stainless steel column 700 mm with stainless steel fixings	Consult
188204	Stainless steel column 450 x 450 x 917 mm Ø 38 mm, stainless steel base	Consult
188205	Stainless steel column 450 x 450 x 917 mm Ø 38 mm, painted steel base	Consult
188206	Stainless steel column 350 x 350 x 750 mm, painted steel base	Consult
188240	Stainless steel fixing bracket for mounting RLT-200	Consult
188241	Stainless steel fixing bracket for mounting RLT-400	Consult
N/A	Installation, testing, configuration and verification	Consult factory



Dimensions

Α	В	C	D	E	F
230 mm	330 mm	93 mm	178 mm	290 mm	30 mm
330 mm	330 mm	93 mm	278 mm	290 mm	30 mm
400 mm	400 mm	115 mm	345 mm	345 mm	30 mm
400 mm	500 mm	115 mm	345 mm	445 mm	30 mm
500 mm	500 mm	115 mm	445 mm	445 mm	30 mm
500 mm	600 mm	137 mm	435 mm	535 mm	30 mm
600 mm	600 mm	137 mm	535 mm	535 mm	30 mm



RL-MEBBench Scales



Specifications:

Load Cell, OIML Certified:

Aluminum IP65

Cable Length: $3 \, \text{m}$

Compensated Temperature Range: $0^{\circ}\,\text{C}$ to $40^{\circ}\,\text{C}$

Warranty:

One-year limited warranty

Standard Features

- 304 stainless steel cover with painted base frame
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

Approvals





Part Number/Price



ϵ	€x
1)	e* (n)

Part #	Dimensions L x W x H (mm)	Max (kg)	e* (g)	Price
185817	230 x 330 x 93	3	1	Consult
185819	230 x 330 x 93	6	2	Consult
185820	230 x 330 x 93	15	5	Consult
185821	330 x 330 x 93	6	2	Consult
185824	330 x 330 x 93	15	5	Consult
185825	330 x 330 x 93	30	10	Consult
185826	400 x 400 x 115	15	5	Consult
185827	400 x 400 x 115	30	10	Consult
185828	400 x 400 x 115	60	20	Consult
185829	400 x 400 x 115	150	50	Consult
185830	400 x 500 x 115	30	10	Consult
185831	400 x 500 x 115	60	20	Consult
185833	400 x 500 x 115	150	50	Consult
185834	500 x 500 x 110	30	10	Consult
185835	500 x 500 x 110	60	20	Consult
185836	500 x 500 x 110	150	50	Consult
185837 <i>†</i>	500 x 600 x 132	60	20	Consult
185838 <i>†</i>	500 x 600 x 132	150	50	Consult
185839†	500 x 600 x 132	300	100	Consult
185840 <i>†</i>	600 x 600 x 137	60	20	Consult
185841 <i>†</i>	600 x 600 x 137	150	50	Consult
185842 <i>†</i>	600 x 600 x 137	300	100	Consult
185843 <i>†</i>	700 x 700 x 145	150	50	Consult
185844 <i>†</i>	700 x 700 x 145	300	100	Consult
185845 <i>†</i>	700 x 700 x 145	600	200	Consult

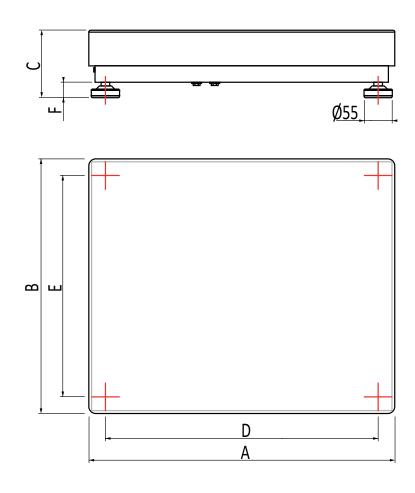
^{*}Certified division size for Legal for Trade application † OIML approved

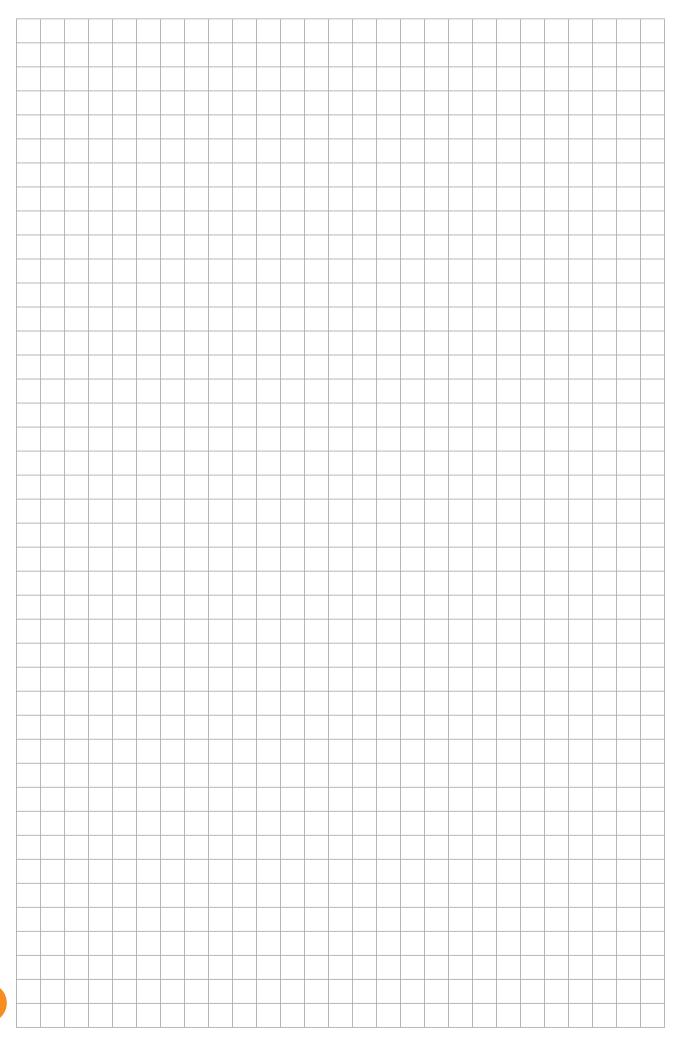
Part #	Description	Price					
188198	Stainless steel column 350 mm with painted steel fixings	Consult					
188199	Stainless steel column 500 mm with painted steel fixings	Consult					
188200	Stainless steel column 700 mm with painted steel fixings	Consult					
188204	Stainless steel column 450 x 450 x 917 mm Ø 38 mm, stainless steel base	Consult					
188205	Stainless steel column 450 x 450 x 917 mm Ø 38 mm, painted steel base	Consult					
188206	Stainless steel column 350 x 350 x 750 mm, painted steel base	Consult					
188240	Stainless steel fixing bracket for mounting RLT-200	Consult					
188241	Stainless steel fixing bracket for mounting RLT-400	Consult					
N/A	Installation, testing, configuration and verification	Consult factory					



Dimensions

Α	В	C	D	E	F
230 mm	330 mm	93 mm	178 mm	290 mm	30 mm
330 mm	330 mm	938 mm	278 mm	290 mm	30 mm
400 mm	400 mm	115 mm	345 mm	345 mm	30 mm
400 mm	500 mm	115 mm	345 mm	445 mm	30 mm
500 mm	500 mm	110 mm	445 mm	445 mm	30 mm
500 mm	600 mm	132 mm	435 mm	535 mm	30 mm
600 mm	600 mm	137 mm	535 mm	535 mm	30 mm
700 mm	700 mm	145 mm	635 mm	635 mm	30 mm





CIBE Calibration Weights

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Class M1 Individual Weights, Cast Iron



PN 189751



PN 189756



PN 189759



PN 189755



PN 189758

Class M1			
Weight	Part #	Description	Price
5 kg	189744	Cast Iron, Painted. Density is 7.10 grams per cubic centimeter	Consult
10 kg	189745	Cast Iron, Painted. Density is 7.10 grams per cubic centimeter	Consult
20 kg	189746	Cast Iron, Painted. Density is 7.10 grams per cubic centimeter	Consult
50 kg	189747	Cast Iron, Painted. Density is 7.10 grams per cubic centimeter	Consult
5 kg	189748	Cast Iron, Nickel-Plated. Density is 7.10 grams per cubic centimeter	Consult
10 kg	189749	Cast Iron, Nickel-Plated. Density is 7.10 grams per cubic centimeter	Consult
20 kg	189750	Cast Iron, Nickel-Plated. Density is 7.10 grams per cubic centimeter	Consult
100 kg	189756	Cast Iron, Painted. Density is 7.10 grams per cubic centimeter	Consult
200 kg	189757	Cast Iron, Painted. Density is 7.10 grams per cubic centimeter	Consult
500 kg	189758	Cast Iron, Painted. Density is 7.10 grams per cubic centimeter	Consult
1.000 kg	189759	Cast Iron, Painted. Density is 7.10 grams per cubic centimeter	Consult
500 kg	189760	Painted Steel. Density is 7.80 grams per cubic centimeter	Consult
1.000 kg	189761	Painted Steel. Density is 7.80 grams per cubic centimeter	Consult
2.000 kg	189762	Painted Steel. Density is 7.80 grams per cubic centimeter	Consult
Case Options			
Weight Holder, 20 kg	189751	Stainless Steel. Suitable For Holding Up To 24 OIML 20 kg Weights, For A Total Combined Weight Of 500 kg. Dimensions - 832 x 518 x 387 mm	Consult
Weight Case, Wooden	189753	For Individual Weights, 5 kg Cast Iron. Weight Sold Separately	Consult
Weight Case, Wooden	189754	For Individual Weights, 10 kg Cast Iron. Weight Sold Separately	Consult
Weight Case, Wooden	189755	For Individual Weights, 20 kg Cast Iron. Weight Sold Separately	Consult
Calibration			
Calibration, ISO 17025	189741	For Individual Weight, 5 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17025	189742	For Individual Weight, 10 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17025	189743	For Individual Weight, 20 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17025	189752	For Individual Weight, 50 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17025	189763	For Individual Weight, 100 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17025	189764	For Individual Weight, 200 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17025	189765	For Individual Weight, 500 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17025	189766	For Individual Weight, 1,000 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17026	189767	For Individual Weight, 2,000 kg Class M1 ACCREDIA	Consult

Class M1 Individual Weights, Stainless Steel



ran Number/File	<u> </u>	·	
Class M1			
Weight	Part #	Description	Price
1 mg	189717	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
2 mg	189718	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
5 mg	189719	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
10 mg	189720	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
20 mg	189721	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
50 mg	189722	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
100 mg	189723	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
200 mg	189724	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
500 mg	189725	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
1 g	189726	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
2g	189727	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
5g	189728	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
10g	189729	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
20 g	189730	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
50 g	189731	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
100 g	189732	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
200 g	189733	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
500 g	189734	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
1 kg	189735	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
2 kg	189736	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
5 kg	189737	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
10 kg	189738	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
20 kg	189739	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
Calibration			
Calibration, ISO 17025	189740	For Individual Weight, 1 mg to 1 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17025	189741	For Individual Weight, 2 kg to 5 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17025	189742	For Individual Weight, 10 kg Class M1 ACCREDIA	Consult
Calibration, ISO 17025	189743	For Individual Weight, 20 kg Class M1 ACCREDIA	Consult

Class M1 Individual Weights, Disk

Class M1				
Weight	Part #	Description	Price	
5 kg	189768	Density is 7.80 grams per cubic centimeter	Consult	
10 kg	189769	Density is 7.80 grams per cubic centimeter	Consult	
5 kg	189770	Density is 7.80 grams per cubic centimeter	Consult	
10 kg	189771	Density is 7.80 grams per cubic centimeter	Consult	
20 kg	189772	Density is 7.80 grams per cubic centimeter	Consult	
Calibration				
Calibration, ISO 17025	189740	For Individual Weight, 1 mg to 1 kg Class M1 ACCREDIA	Consult	
Calibration, ISO 17025	189741	For Individual Weight, 2 kg to 5 kg Class M1 ACCREDIA	Consult	
Calibration, ISO 17025	189742	For Individual Weight, 10 kg Class M1 ACCREDIA	Consult	
Calibration, ISO 17025	189743	For Individual Weight, 20 kg Class M1 ACCREDIA	Consult	

Class F1				
Weight	Part #	Description	Price	
1 mg	189773	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
2 mg	189774	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
5 mg	189775	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
10 mg	189776	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
20 mg	189777	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
50 mg	189778	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
100 mg	189779	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
200 mg	189780	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
500 mg	189781	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
1 g	189782	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
2g	189783	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
5 g	189784	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
10 g	189785	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
20 g	189786	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
50 g	189787	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
100 g	189788	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
200 g	189789	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
500 g	189790	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
1 kg	189791	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
2 kg	189792	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
5 kg	189793	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
10 kg	189794	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
20 kg	189795	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult	
Calibration				
Calibration, ISO 17025	189796	For Individual Weight, 1 mg to 50 g Class F1 ACCREDIA	Consult	
Calibration, ISO 17025	189797	For Individual Weight, 400 g to 1 kg Class F1 ACCREDIA	Consult	
Calibration, ISO 17025	189798	For Individual Weight, 2 kg to 10 kg Class F1 ACCREDIA	Consult	
Calibration, ISO 17025	189799	For Individual Weight, 20 kg Class F1 ACCREDIA	Consult	

Class E2 Individual Weights, Stainless Steel

Class E2			
Weight	Part #	Description	Price
1 mg	189800	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
2 mg	189801	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
5 mg	189802	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
10 mg	189803	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
20 mg	189804	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
50 mg	189805	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
100 mg	189806	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
200 mg	189807	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
500 mg	189808	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
1 g	189809	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
2 g	189810	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
5 g	189811	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
10g	189812	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
20 g	189813	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
50 g	189814	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
100 g	189815	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
200 g	189816	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
500 g	189817	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
1 kg	189818	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
2 kg	189819	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
5 kg	189820	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
10 kg	189821	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
Calibration			
Calibration, ISO 17025	189822	For Individual Weight, 1 mg to 50 g Class E2	Consult
Calibration, ISO 17025	189823	For Individual Weight, 100 g to 1 kg Class E2	Consult
Calibration, ISO 17025	189824	For Individual Weight, 2 kg to 10 kg Class E2	Consult

Class E1			
Weight	Part #	Description	Price
1 mg	189825	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
2 mg	189826	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
5 mg	189827	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
10 mg	189828	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
20 mg	189829	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
50 mg	189830	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
100 mg	189831	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
200 mg	189832	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
500 mg	189833	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
1 g	189834	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
2 g	189835	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
5 g	189836	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
10g	189837	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
20 g	189838	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
50 g	189839	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
100 g	189840	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
200 g	189841	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
500 g	189842	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
1 kg	189843	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
2 kg	189844	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
5 kg	189845	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
10 kg	189846	Stainless Steel. Density is 7.95 grams per cubic centimeter	Consult
Calibration			
Calibration, ISO 17025	189847	For Individual Weight, 1mg to 500MG Class E1 ACCREDIA	Consult
Calibration, ISO 17025	189848	DAKKS For Individual Weight, 1 g to 1 kg Class E1	Consult
Calibration, ISO 17025	189849	DAKKS For Individual Weight, 2 kg to 10 kg Class E1	Consult
Calibration, ISO 17025	189850	DAKKS For Individual Weight, 1 g to 1 kg Class E1. Includes Volume Determination.	Consult
Calibration, ISO 17026	189851	DAKKS For Individual Weight, 2 kg to 10 kg Class E1. Includes Volume Determination.	Consult

Class M1 Weight Sets, Stainless Steel







PN 189857

PN 189860

Class M1			
Weight Set	Part #	Description	Price
1 mg to 500 mg	189852	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 50 g	189853	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 100 g	189854	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 200 g	189855	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 500 g	189856	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 1 kg	189857	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 2 kg	189858	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 5 kg	189859	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 10 kg	189860	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 50 g	189861	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 100 g	189862	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 200 g	189863	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 500 g	189864	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 1 kg	189865	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 2 kg	189866	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 5 kg	189867	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 10 kg	189868	Stainless Steel, Class M1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
Calibration			
Calibration, ISO 17025	189869	For Weight Set, 1 mg to 500 mg Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189870	For Weight Set, 1 mg to 50 g Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189871	For Weight Set, 1 mg to 100 g Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189872	For Weight Set, 1 mg to 200 g Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189873	For Weight Set, 1 mg to 500 g Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189874	For Weight Set, 1 mg to 1 kg Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189875	For Weight Set, 1 mg to 2 kg Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189876	For Weight Set, 1 mg to 5 kg Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189877	For Weight Set, 1 mg to 10 kg Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189878	For Weight Set, 1 g to 50 g Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189879	For Weight Set, 1 g to 100 g Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189880	For Weight Set, 1 g to 200 g Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189881	For Weight Set, 1 g to 500 g Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189882	For Weight Set, 1 g to 1 kg Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189883	For Weight Set, 1 g to 2 kg Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189884	For Weight Set, 1 g to 5 kg Class M1. ACCREDIA	Consult
Calibration, ISO 17025	189885	For Weight Set, 1 g to 10 kg Class M1. ACCREDIA	Consult

Class F1			
Weight Set	Part #	Description	Price
1 mg to 500 mg	189886	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 50 g	189887	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 100 g	189888	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 200 g	189889	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 500 g	189890	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 1 kg	189891	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 2 kg	189892	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 5 kg	189893	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 10 kg	189894	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 50 g	189895	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 100 g	189896	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 200 g	189897	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 500 g	189898	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 1 kg	189899	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 2 kg	189900	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 5 kg	189901	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 10 kg	189902	Stainless Steel, Class F1. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
Calibration			
Calibration, ISO 17025	189903	For Weight Set, 1 mg to 500 mg Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189904	For Weight Set, 1 mg to 50 g Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189905	For Weight Set, 1 mg to 100 g Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189906	For Weight Set, 1 mg to 200 g Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189907	For Weight Set, 1 mg to 500 g Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189908	For Weight Set, 1 mg to 1 kg Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189909	For Weight Set, 1 mg to 2 kg Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189910	For Weight Set, 1 mg to 5 kg Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189911	For Weight Set, 1 mg to 10 kg Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189912	For Weight Set, 1 g to 50 g Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189913	For Weight Set, 1 g to 100 g Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189914	For Weight Set, 1 g to 200 g Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189915	For Weight Set, 1 g to 500 g Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189916	For Weight Set, 1 g to 1 kg Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189917	For Weight Set, 1 g to 2 kg Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189918	For Weight Set, 1 g to 5 kg Class F1. ACCREDIA	Consult
Calibration, ISO 17025	189919	For Weight Set, 1 g to 10kg Class F1. ACCREDIA	Consult

Class E2 Weight Sets, Stainless Steel

Class E2			
Weight Set	Part #	Description	Price
1 mg to 500 mg	189920	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 50 g	189921	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 100 g	189922	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 200 g	189923	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 500 g	189924	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 1 kg	189925	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 2 kg	189926	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 5 kg	189927	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 mg to 10 kg	189928	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 50 g	189929	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 100 g	189930	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 200 g	189931	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 500 g	189932	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 1 kg	189933	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 2 kg	189934	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 5 kg	189935	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
1 g to 10 kg	189936	Stainless Steel, Class E2. Density is 7.95 grams per cubic centimeter. Wooden case.	Consult
Calibration			
Calibration, ISO 17025	189937	For Weight Set, 1 mg to 500 mg Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189938	For Weight Set, 1 mg to 50 g Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189939	For Weight Set, 1 mg to 100 g Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189940	For Weight Set, 1 mg to 200 g Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189941	For Weight Set, 1 mg to 500 g Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189942	For Weight Set, 1 mg to 1 kg Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189943	For Weight Set, 1 mg to 2 kg Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189944	For Weight Set, 1 mg to 5 kg Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189945	For Weight Set, 1 mg to 10 kg Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189946	For Weight Set, 1 g to 50 g Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189947	For Weight Set, 1 g to 100 g Class E2 ACCREDIA	Consult
Calibration, ISO 17025	189948	For Weight Set, 1 g to 200 g Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189949	For Weight Set, 1 g to 500 g Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189950	For Weight Set, 1 g to 1 kg Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189951	For Weight Set, 1 g to 2 kg Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189952	For Weight Set, 1 g to 5 kg Class E2. ACCREDIA	Consult
Calibration, ISO 17025	189953	For Weight Set, 1 g to 10 kg Class E2. ACCREDIA	Consult

CIBE Weights Cases and Accessories

Cases and Accessories			
Weight	Part #	Description	Price
Weight Case, Plastic	189954	For Individual Weights, 1 mg to 100 g. Weight Sold Separately	Consult
Weight Case, Plastic	189955	For Individual Weights, 200 g. Weight Sold Separately	Consult
Weight Case, Plastic	189956	For Individual Weights, 500 g. Weight Sold Separately	Consult
Weight Case, Plastic	189957	For Individual Weights, 1 kg. Weight Sold Separately	Consult
Weight Case, Plastic	189958	For Individual Weights, 2 kg. Weight Sold Separately	Consult
Weight Case, Plastic	189959	For Individual Weights, 5 kg. Weight Sold Separately	Consult
Weight Case, Plastic	189960	For Individual Weights, 10 kg. Weight Sold Separately	Consult
Weight Case, Plastic	189961	For Set of Weights From 1 mg to 5 g	Consult
Weight Case, Plastic	189962	For Set of Weights From 100 g to 5 kg	Consult
Weight Case, Plastic	189963	For Set of Weights From 1 mg to 2 kg	Consult
Weight Case, Plastic	189964	For Set of Weights From 1 g to 500 g	Consult
Weight Case, Plastic	189965	For Set of Weights From 1 mg to 500 g	Consult
Weight Case, Plastic	189966	For Set of Weights From 1 g to 5 kg	Consult
Weight Case, Plastic	189967	For Set of Weights From 1 mg to 5 kg	Consult
Weight Case, Wooden	189968	For Individual Weights, 1 mg to 500 mg. Weight Sold Separately	Consult
Weight Case, Wooden	189969	For Individual Weights, 1 g. Weight Sold Separately	Consult
Weight Case, Wooden	189970	For Individual Weights, 2 g. Weight Sold Separately	Consult
Weight Case, Wooden	189971	For Individual Weights, 5 g. Weight Sold Separately	Consult
Weight Case, Wooden	189972	For Individual Weights, 10 g. Weight Sold Separately	Consult
Weight Case, Wooden	189973	For Individual Weights, 20 g. Weight Sold Separately	Consult
Weight Case, Wooden	189974	For Individual Weights, 50 g. Weight Sold Separately	Consult
Weight Case, Wooden	189975	For Individual Weights, 100 g. Weight Sold Separately	Consult
Weight Case, Wooden	189976	For Individual Weights, 200 g. Weight Sold Separately	Consult
Weight Case, Wooden	189977	For Individual Weights, 500 g. Weight Sold Separately	Consult
Weight Case, Wooden	189978	For Individual Weights, 1 kg. Weight Sold Separately	Consult
Weight Case, Wooden	189979	For Individual Weights, 2 kg. Weight Sold Separately	Consult
Weight Case, Wooden	189980	For Individual Weights, 5 kg. Weight Sold Separately	Consult
Weight Case, Wooden	189981	For Individual Weights, 10 kg. Weight Sold Separately	Consult
Weight Case, Wooden	189982	For Individual Weights, 20 kg. Weight Sold Separately	Consult
Weight Case, Aluminum	189983	For Individual Weights, 5 kg. Weight Sold Separately	Consult
Weight Case, Aluminum	189984	For Individual Weights, 10 kg. Weight Sold Separately	Consult
Weight Case, Aluminum	189985	For Individual Weights, 20 kg. Weight Sold Separately	Consult
Weight Case, Aluminum	189986	For Individual Weight, 5 kg. Cast Iron Weight Sold Separately	Consult
Weight Case, Aluminum	189987	For Individual Weight, 10 kg. Cast Iron Weight Sold Separately	Consult
Weight Case, Aluminum	189988	For Individual Weight, 20 kg. Cast Iron Weight Sold Separately	Consult
Weight Case, Wooden	189989	For Set of Weights From 1 mg to 100 g	Consult
Weight Case, Wooden	189990	For Set of Weights From 1 mg to 1 kg. Class M1/F1	Consult
Weight Case, Wooden	189991	For Set of Weights From 1 mg to 2 kg. Class M1/F1	Consult
Weight Case, Wooden	189992	For Set of Weights From 1 mg to 5 kg. Class M1/F1	Consult
Weight Case, Wooden	189993	For Set of Weights From 1 mg to 10 kg. Class M1/F1	Consult
Weight Case, Wooden	189994	For Set of Weights From 1 mg to 1 kg. Class E2/E1	Consult
Weight Case, Wooden	189995	For Set of Weights From 1 mg to 2 kg. Class E2/E1	Consult
Weight Case, Wooden	189996	For Set of Weights From 1 mg to 5 kg. Class E2/E1	Consult
Weight Case, Wooden	189997	For Set of Weights From 1 mg to 10 kg. Class E2/E1	Consult
Glove, Cotton	189998	To cot of thought it that I mig to to high class 22/21	Consult
Dust Brush	189999	100 mm Long	Consult
Tweezers For Weights	190000	105 mm Long	Consult
Tweezers For Weights	190001	130 mm Long	Consult
Tweezers For Weights	190002	230 mm Long	Consult
Handle, Weight	190003	For Use With 5 kg Weight	Consult
Handle, Weight	190003	For Use With 10 kg Weight	Consult
Handle, Weight	190004	For Use With 20 kg Weight	Consult
Single Certificate	190005	Price Adder For Single Certificates	Consult













PN 189961

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Checkweighers

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Checkweighing applications can benefit from WeighVault™ software, which provides detailed reports and increased ID storage over a network connection.

For more information on WeighVault software, please refer to page 328.



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CW-90

Over/Under Checkweigher





Approvals

Standard Features

- Membrane keypad consisting of zero, units, print, tare, over, under, ID, target, 0-9, clear, decimal, enter, menu, power
- · 304 stainless steel, IP66 rated indicator
- PreVent[™] breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, 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
- · Reflash memory to upgrade firmware

Scale:

- · Aluminum, environmentally sealed load cell
- 304 stainless steel
- Meets HACCP requirements
- · Five point overload protection

Additional models are available with the approvals shown here Please consult the factory for part numbers.





Specifications

Power - AC:

Line voltages: 230 VAC Frequency: 50/60 Hz

Power Consumption:

0,75A at 230VAC (8W)

Excitation Voltage:

+5 VDC 8 x 350 Ω or

 $16 \times 700 \Omega$ load cells

Analog Signal Input Range:

-0,5 mV/V - 4,5 mV/V

Analog Signal Sensitivity:

 $0.3\,uV/graduation$ minimum, $1.5\,uV/graduation$ recommended

Measurement Rate:

960, 480, 240, 120, 60, 30, 15, 7,5 per second

System Linearity:

± 0,01% full scale

Digital I/0:

Four channels on CPU board

Circuit Protection:

RFI, EMI, ESD protection

Display:

Large 20 mm 14 segment, six-digit high-intensity red LED display

Status Annunciators:

Designators for percent, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

Operating Temperature:

Legal: -10°C to 40°C

Rating/Material:

IP66, stainless steel

Display Resolution:

100.000 graduations maximum

Load Cell:

Aluminum, environmentally sealed

Warranty:

Two-year limited warranty



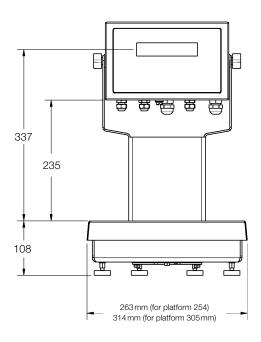
Part Number/Price

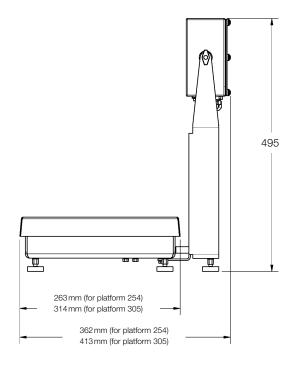
Part #	Capacity	Platform Dimensions	Column Height	Est. Weight	Price
230 VAC (CE marked/OIML approved				
106123	3 x 0,001 kg	254 x 254 x 108 mm	305 mm	13,2 kg	Consult
106124	6 x 0,002 kg	254 x 254 x 108 mm	305 mm	13,2 kg	Consult
106125	15 x 0,005 kg	254 x 254 x 108 mm	305 mm	13,2 kg	Consult
106126	15 x 0,005 kg	305 x 305 x 108 mm	305 mm	15 kg	Consult
106127	30 x 0,01 kg	305 x 305 x 108 mm	305 mm	15 kg	Consult
106128	60 x 0,02 kg	305 x 305 x 108 mm	305 mm	15 kg	Consult



Part #	Description	Price
77142	Ethernet TCP/IP	Consult
108671	Wireless LAN card Wi-Fi 802,11 A/B	Consult
93245	USB Port (PC connection only) cable included	Consult
95357	USB cable, Type A to mini-B, 1 meter	Consult
96736	Fiber optic board	Consult
78026	Fiber optic, duplex cable 30,480 mm	Consult
80892	Fiber optic cutter	Consult
117358	WeighVault™ (requires part number 77142 or 108671)	Consult
Consult*	Calibration without certificate	Consult
Consult*	Verification 0-30 kg with certificate	Consult
Consult*	Verification 30-150 kg with certificate	Consult

^{*}Verification service fees are net charges, no discount





CW-90X

Over/Under Checkweigher Washdown





Approvals

Standard Features

- Piezo keypad consisting of zero, units, print, tare, over, under, ID, target, enter, menu, power
- · 304 stainless steel. IP69K rated indicator
- PreVent[™] breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, 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
- · Reflash memory to upgrade firmware

Scale:

- IP69K, stainless steel hermetically sealed load cell
- 304 stainless steel
- Meets HACCP requirements
- · Five point overload protection

Additional models are available with the approvals shown here Please consult the factory for part numbers.







Specifications

Power-AC:

Line voltages: 230 VAC Frequency: 50/60 Hz

Power Consumption:

0,75A at 230VAC (8W)

Excitation Voltage:

+5 VDC 8 x 350 Ω or 16 x 700 Ω load cells

Analog Signal Input Range:

 $-0.5\,\text{mV/V} - 4.5\,\text{mV/V}$

Analog Signal Sensitivity:

 $0.3\,\text{uV/graduation}$ minimum, $1.5\,\text{uV/}$ graduation recommended

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 20 mm 14 segment, six-digit high-intensity red LED display

Status Annunciators:

Designators for percent, kg, gm, center of zero, G/B, N, T, PT, neg, motion

Operating Temperature:

Legal: -10°C to 40°C

Rating/Material:

IP69K, stainless steel

Display Resolution:

100.000 graduations maximum

Load Cell:

IP69K, stainless steel hermetically sealed

Warranty:

Three-year limited warranty

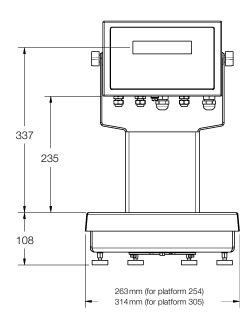
Part Number/Price

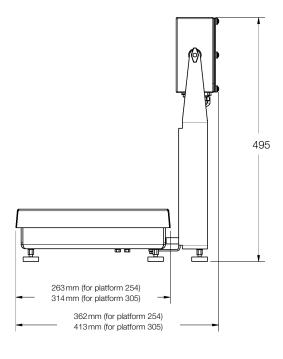
Part #	Capacity	Platform Dimensions	Column Height	Est. Weight	Price
230 VAC CE	Marked/OIML Approved				
106129	3 x 0,001 kg	254 x 254 x 108 mm	305 mm	13,2 kg	Consult
106130	6 x 0,002 kg	254 x 254 x 108 mm	305 mm	13,2 kg	Consult
106131	15 x 0,005 kg	254 x 254 x 108 mm	305 mm	13,2 kg	Consult
106132	15 x 0,005 kg	305 x 305 x 108 mm	305 mm	15kg	Consult
106133	30 x 0,01 kg	305 x 305 x 108 mm	305 mm	15 kg	Consult
106134	60 x 0,02 kg	305 x 305 x 108 mm	305 mm	15kg	Consult



Part #	Description	Price
77142	Ethernet TCP/IP	Consult
108671	Wireless LAN card Wi-Fi 802,11 A/B	Consult
93245	USB Port (PC connection only) cable included	Consult
95357	USB cable, Type A to mini-B, 1 meter	Consult
96736	Fiber optic board	Consult
78026	Fiber optic, duplex cable 30,5 meter	Consult
80892	Fiber optic cutter	Consult
117358	WeighVault™ (requires part number 77142 or 108671)	Consult
Consult*	Calibration without certificate	Consult
Consult*	Verification 0-30 kg with certificate	Consult
Consult*	Verification 30-150 kg with certificate	Consult

^{*}Verification service fees are net charges, no discount





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Crane Scales

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Please visit www.ricelake.com/global for current product pricing or call our European office at +31 (0) 26 472 1319 to talk to an industry expert about our product offerings and customized solutions.

MSI-3460 Challenger 3



Standard Features

- · Crane unit with five-digit, 38 mm LED display
- Top lifting eye or shackle and bottom swivel hook
- · Lb/kg switch selectable
- Six volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)

Additional Options

(Contact MSI for application consultation)

- Rugged remote control (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 (100 ft line of sight)
- · RF scoreboard
- NTEP Certified (113,4 kg-4.535,9 kg capacities)
- Universal direct power supply (115/230 VAC)
- Audible alarm
- Wi-Fi or Bluetooth® communications (additional use with MSI-ScaleCore Connect (available for download at Google Play Store))
- Potential receivers: MSI-8000, MSI-8000HD RF, MSI-8004HD RF, TranSend, LaserLight 2



Optional rugged remote

Specifications

Accuracy:

+ or - 0,1% or +1 d of applied load

Resolution:

2.000 to 3.750 d standard (up to 10,000 d available)

Enclosure

NEMA Type 4, IP65, powder coated cast aluminum

Lifting Eye & Hook:

Crosby® or equivalent with 360° non-bearing swivel hook

Design Overload:

200% Safe / 500% Ultimate

Functions:

Power: Turns unit on or 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

Display:

Five-digit, 38 mm LED with programmable brightness control

Displayable Units:

Pounds or kilogram selectable

Annunciators:

COZ, Net, Gross, Total, Peak, Low Battery, lb/kg, Motion, Setpoints, ack in, ack out, rf

Power

Approvals

6 volt rechargeable battery. 115/230 VAC battery charger is included

Operating Time:

Up to 80 hours between charging with typical use, less with optional RF Modem

Operating Temperature:

-40° C to 40° C

Auto-Off Mode:

Select for 15, 30, 45, 60 minutes or select 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

Calibration:

Digital

Filtering:

OFF, LO, HI-1, HI-2 selectable

Warranty:

One-year limited

Approvals:

NTEP CC 86-021 - 125 kg-5,000 kg OIML (pending)



Part Number/Price

Part #	MSI Part #	Description	Capacity	Resolution	Est. Weight	Price
139102	502887-0001	MSI-3460 125 kg/250 kg cap F/A	125 kg 250 kg	0,05 kg 0,1 kg	10 kg	Consult
139103	502887-0002	MSI-3460 500 kg/1.000 kg cap F/A	500 kg 1.000 kg	0,2 kg 0,5 kg	10 kg	Consult
139104	502887-0003 MSI-3460 2.500 kg/5.000 kg cap F/A		2.500 kg 5.000 kg	1 kg 2 kg	18 kg	Consult
139105	502887-0004	MSI-3460 7.000 kg cap F/A	7.000 kg	2 kg	30 kg	Consult
139110	502887-0005	MSI-3460 125 kg/250 kg cap F/A (with RF modem for connectivity to model MSI-8000 and remote)		0,05 kg 0,1 kg	10 kg	Consult
139111	502887-0010	MSI-3460 500 kg/1.000 kg cap F/A (Requires MSI-3460 equipped with RF modem)	500 kg 1.000 kg	0,2 kg 0,5 kg	10 kg	Consult
139112	502887-0011	MSI-3460 2.500 kg/5.000 kg cap F/A (with RF modem for connectivity to model MSI-8000 and remote)	2.500 kg 5.000 kg	1 kg 2 kg	18 kg	Consult
176905 *	_	MSI-3460 125 kg/250 kg cap F/A with Bluetooth® RF	125 kg 250 kg	0,05 kg 0,1 kg	10 kg	Consult
176906 *	_	MSI-3460 500 kg/1.000 kg cap F/A with Bluetooth® RF	500 kg 1.000 kg	0,2 kg 0,5 kg	10 kg	Consult
176907 *	_	MSI-3460 2.500 kg/5.000 kg cap F/A with Bluetooth® RF	2.500 kg 5.000 kg	1 kg 2 kg	18 kg	Consult
176908 *	_	MSI-3460 7.000 kg cap F/A with Bluetooth® RF	7.000 kg	2 kg	30 kg	Consult
176909	_	MSI-3460 125 kg/250 kg cap F/A with Wi-Fi RF	125 kg 250 kg	0,05 kg 0,1 kg	10 kg	Consult
176910	_	MSI-3460 500 kg/1.000 kg cap F/A with Wi-Fi RF	500 kg 1.000 kg	0,2 kg 0,5 kg	10 kg	Consult
176911	_	MSI-3460 2.500 kg/5.000 kg cap F/A with Wi-Fi RF	2.500 kg 5.000 kg	1 kg 2 kg	18 kg	Consult
176912	_	MSI-3460 7.000 kg cap F/A with Wi-Fi RF	7.000 kg	2 kg	30 kg	Consult

^{*} Bluetooth modems only work with certain Android devices. Please contact office for potential applications.

Part #	MSI Part #	Description	Est. Weight	Price
140049	C00502-0001	Battery assembly, 6 volt rechargeable	1,4 kg	Consult
139152	502956-0001	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	2,25 kg	Consult
139153	502956-0002	Battery charger 115/230 VAC, 50/60 Hz (EC plug standard)	2,25 kg	Consult
149549	503486-0001	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 remote display	1,4 kg	Consult
178004		LaserLight 2 101 mm six-digit RF scoreboard	10 kg	Consult
178006		LaserLight 2 152 mm six-digit RF scoreboard	17 kg	Consult
Consult		AC power supply		Consult
Consult		Audible setpoint alarm		Consult
139395		Retrofit kit 3460	1 lb	Consult
173014		Rugged remote control		Consult
139381	503208-0001	MSI-8000 RF remote display (requires MSI-3460 equipped with RF modem)	2,25 kg	Consult

MSI-4260 Port-A-Weigh



Standard Features

- · Crane unit with five-digit, 30 mm LED display
- Top lifting eye or shackle, bottom thrust-bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)

Additional Options

(Contact MSI for application consultation)

- Rugged remote control (control for Off, Zero, Tare and other functions)
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display (30,5 kg line of sight)
- NTEP Certified configuration
- · Anti-heat shielding for high temperature applications
- · Substitute bottom swivel hook with shackle
- Oversized top lifting eye or shackle
- · Oversized bottom hook
- \bullet Universal direct power supply; 85-265 VAC, 47–440 Hz / 130–300 VDC
- · Low headroom top adapter
- Audible alarm
- Wi-Fi or Bluetooth® communications (additional use with MSI-ScaleCore Connect (available for download at Google Play Store))
- Potential receivers: MSI-8000, MSI-8000HD RF, MSI-8004HD RF, TranSend, LaserLight 2
- · Custom top and bottom interfaces
- Factory Mutual and ATEX approved Intrinsically Safe models available



Optional rugged remote

Specifications

Accuracy:

 \pm (0,1% +1 d) of applied load

Resolution:

3.000 to 5.000 d standard (up to 10.000 d available)

Enclosure:

NEMA Type 4, IP66 marine grade 356 alloy anodized cast aluminum

Lifting Eye, Shackle & Hook:

Crosby® or equal with 360° thrust-bearing swivel hook

Design Overload:

200% Safe / 500% Ultimate (except where noted)

Functions:

Power: Turns unit on or off Zero: Zeros applied load up to 100% of capacity (limited range in NTEP Certified configuration) Tare: Tares applied load and displays weight in Net mode F1: Programmable as test, units, net/gross, total and peak hold

Display:

Five-digit, 30 mm LED with programmable brightness control

Displayable Units:

Pounds or kilograms selectable

Annunciators:

COZ, Net, Gross, Total, Peak, Low Battery, lb/kg, Motion, Setpoints $\,$

Power:

Approvals

Optional

Ex)

12 volt rechargeable battery. 115/230 VAC battery charger is included

Operating Time:

Up to 200 hours between charging with typical use, less with RF Modem option

Operating Temperature:

-40°C to 50°C (Industrial)

Auto-Off Mode:

Select for 15, 30, 45 minutes, 1 hour or select 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

Calibration:

Digital

Filtering:

OFF, LO, HI-1, HI-2 selectable

Warranty:

One-year limited warranty

Approvals:

NTEP CC 89-090 - 250 kg-1.000 kg NTEP CC 89-090A1 - 2.000 kg-35.000 kg

Part Number/Price

Part #	MSI Part #	Description	Capacity	Resolution	Est. Weight	Price
139460	503413-0001	MSI-4260B 250 kg F/A	250 kg	0,1 kg	24 kg	Consult
139461	503413-0002	MSI-4260B 1.000 kg F/A	1.000 kg	0,5 kg	24 kg	Consult
139462	503413-0003	MSI-4260B 2.500 kg F/A	2.500 kg	0,5 kg	28 kg	Consult
139463	503413-0004	MSI-4260B 5.000 kg F/A	5.000 kg	1,0 kg	28 kg	Consult
139464	503413-0005	MSI-4260B 10.000 kg F/A	10.000 kg	2,3 kg	48 kg	Consult
139465	503413-0006	MSI-4260B 15.000 kg F/A	15.000 kg	4,5 kg	57 kg	Consult
139466*	503413-0007	MSI-4260B 25.000 kg F/A	25.000 kg	4,5 kg	107 kg	Consult
139467**	503413-0008	MSI-4260B 35.000 kg F/A	35.000 kg	9,1 kg	123 kg	Consult
139468***	503413-0009	MSI-4260B 50.000 kg F/A	50.000 kg	9,1 kg	191 kg	Consult

Part #	MSI Part #	Description	Est. Weight	Price
150971	503508-0001	Option kit 4260B RF remote display (RF modem install for connectivity with MSI-8000 remote display and rugged remote)	N/A	Consult
139381	503208-0001	MSI-8000 RF remote display (requires MSI-4260 equipped with RF modem option 2)	2,27 kg	Consult
173014	N/A	RF rugged remote control (requires MSI-4260 equipped with RF modem)	N/A	Consult
153591	N/A	MSI-8000HD Remote Display, AC power and tilt bracket option	1,4 kg	Consult
159221	N/A	Universal crane scale transport cart	82 kg	Consult
178004	N/A	LaserLight 2, 101 mm six-digit RF scoreboard	10 kg	Consult
178006	N/A	LaserLight 2, 152 mm six-digit RF scoreboard	17 kg	Consult
Consult	N/A	AC direct power supply		Consult
Consult	N/A	Audible set point alarm		Consult
Consult	N/A	Anti-heat shield		Consult
152123	N/A	Retrofit kit 4260 to 4260B	8 lb	Consult
176956	N/A	Option kit, 4260B Wi-Fi RF	0 kg	Consult
176954	N/A	Option kit, 4260B Bluetooth® RF	0 kg	Consult
Accessori	es			
150367	D00559-0004	Battery assembly, 12V rechargeable	3 kg	Consult
140994		Battery assembly		Consult
167777		Battery assembly, 12V		Consult
170606		Battery assembly, 12V SLA		Consult
138006	502221-0001	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	2 kg	Consult
138007	502221-0002	Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard)	2 kg	Consult
138008	502221-0003	Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard)	2 kg	Consult
149549	503486-0001	Universal 115/ 230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 remote display	1,4 kg	Consult
4260 Sub	Hook with Shack	e		
Consult	N/A	250 to 5.000 kg, 6.5 ton shackle		Consult
Consult	N/A	10.000 to 15.000 kg, 17 ton shackle		Consult
Consult	N/A	25.000 kg, 25 ton shackle		Consult
Consult	N/A	35.000 kg, 40 ton shackle		Consult
Consult	N/A	50.000 kg, 55 ton shackle		Consult
4260 Over	size Lifting Eye/S	hackle		
Consult	N/A	250 to 5.000 kg capacity		Consult
Consult	N/A	10.000 to 15.000 kg capacity, adapter with 25 ton shackle		Consult
Consult	N/A	25.000 to 35.000 kg capacity		Consult
Consult	N/A	50.000 kg capacity		Consult

^{* 490%} of kg capacity ** 475% of lb capacity/430% of kg capacity

^{***450%} of kg capacity

MSI-4260M Port-A-Weigh



Standard Features

- IP66 cast aluminum
- Top lifting eve with lower link interface
- Five-digit, 44.5 mm LCD with programmable brightness control
- Battery operated, six (6) D cell 1.5V alkaline batteries
- Meets or exceeds OSHA, ANSI, ASME and other safety design standards (5:1 Ultimate Safety Factor)
- · NTEP Certified configuration

Additional Options

(Contact MSI for application consultation)

- Rugged remote control (control for On/Off, Zero, Tare and other functions)
- RF modem install for connectivity to MSI-8000, MSI-8000HD, MSI-8004HD, and LaserLight 2 remote display
- WiFi and Bluetooth® communication are available for specialty applications. (Contact MSI for application consultation)

Specifications

Accuracy: $\pm (0.1\% + 1 \text{ d})$ of applied load

Resolution:

Max NTEP Approved Class III: 2,500 Divisions Max NTEP Approved Class IIIL: 5,000 Divisions Max Non NTEP Approved: 10,000 Divisions

Enclosure:

IP66 cast aluminum

Lifting Eye, Link & Hook:

Top lifting eye with lower link interface

Design Overload:

200% Safe / 500% Ultimate

Functions:

Power: Turns unit on or off Zero: Zeros applied load up to 100% of capacity (limited range in NTEP configurations) Tare: Tares applied load and displays weight User: Programmable as test, total, unit, peak hold, net/gross, view total and print

Display:

Five-digit, 44.5 mm LCD with programmable brightness control

Displayable Units:

Pounds or kilograms selectable

Annunciators:

COZ, Battery Level, Net, Total, Ib/kg, Stability, RF and Setpoint LEDs

Approvals

Battery operated, six (6) D cell 1.5 V alkaline batteries

Operating Time:

Up to 1,000 hours of battery life with typical use, less with RF Modem option

Operating Temperature:

Legal for Trade: 1-10°C to 40°C Operating: -28°C to 50°C

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:

Powers 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 **Calibration:**

Digital (procedure initiated by calibration switch)

Filtering:

OFF, LO, HI-1 or HI-2 selectable

Radio Link: 802.15.4 at 2.4 GHz

Radio Effective Range:

Typically 100-300 ft line of sight

Warranty:

One-year limited warranty

Approvals:

NTEP COC 19-122

MSI-4260M Port-A-Weigh

Part Number/Price

Part #	MSI Part #	Description	Capacity	Resolution	Est. Weight	Price
194593		MSI-4260M	2,268kg			Consult
196908		MSI-4260M w/RF	2,268kg			Consult

Part #	MSI Part #	Description	Est. Weight	Price
150971	503508-0001	Option kit 4260M RF modem (RF modem install for connectivity with MSI-8000 modem and rugged remote)	N/A	Consult
139381	503208-0001	MSI-8000 RF remote display (requires MSI-4260M equipped with RF modem)	2.25 kg	Consult
173014	N/A	RF rugged remote control (requires MSI-4260M equipped with RF modem)	N/A	Consult
153591	N/A	MSI-8000HD Remote Display, AC power and tilt bracket option (requires MSI-4260M equipped with RF modem)	1.36kg	Consult
159221	N/A	Universal crane scale transport cart	82 kg	Consult
178004	N/A	LaserLight2, 4 in (101 mm) six-digit RF scoreboard (requires MSI-4260M equipped with RF modem)	10 kg	Consult
178006	N/A	LaserLight2, 6 in (152 mm) six-digit RF scoreboard (requires MSI-4260M equipped with RF modem)	17kg	Consult
Consult	N/A	Option kit, 4260M Wi-Fi	0 kg	Consult
Consult	N/A	Option kit, 4260M Bluetooth®	0 kg	Consult

MSI-4260 IS Intrinsically Safe Crane Scale Port-A-Weigh



Standard Features

- · Crane unit with five-digit, 30 mm LED display
- · Top lifting eye or shackle, bottom thrust-bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)

Additional Options

(Contact MSI for application consultation)

NTEP Certified configuration

Approvals









Specifications

Accuracy:

 \pm (0,1% +1 d) of applied load

Resolution:

3.000 to 5.000 d standard (up to 10.000 d available)

NEMA Type 4, IP66 marine grade 356 alloy anodized cast aluminum

Instrinsic Safety:

US Listings

FM16US0156X

IS / I, II, III / 1 / CDEFG / T4 Ta = -20°C to 50°C I/O/AEx ia /IIB/T4 Ta = -20°C to 50°C Ga 20 / AEx ia / IIIC / T135°C Ta = -20°C to 50°C Da

Canadian Listings

FM16CA0092X

 $IS / I / 1 / CD / T4 Ta = -10^{\circ}C to 50^{\circ}C$ IS / II, III / 1 / EFG / T4 Ta = -10° C to 50° C I/O/Ex ia /IIB/T4 Ta = -10°C to 50°C Ga20 / Ex ia / IIIC / T135°C Ta = -10°C to 50°C Da

ATEX Listings

FM16ATEX0038X

II 1 G Ex ia IIB T4 Ga -10°C \leq Ta \leq 50°C II 1 D Ex ia IIIC T135°C Da -10°C \leq Ta \leq 50°C

Lifting Eye, Shackle & Hook:

Crosby® or equal with 360° thrust-bearing swivel hook

Design Overload:

200% Safe / 500% Ultimate (except where noted)

Functions:

Power: Turns unit on or off Zero: Zeros applied load up to 100% of capacity (limited range in NTEP Certified configuration) Tare: Tares applied load and displays weight in Net mode F1: Programmable as test, units, net/gross, total and peak hold

Display:

Five-digit, 30 mm LED with programmable

Displayable Units:

Pounds or kilograms selectable

Annunciators:

COZ, Net, Gross, Total, Peak, Low Battery, lb/kg, Motion, Setpoints

Power:

12 volt rechargeable battery

115/230 VAC approved battery charger is included

Operating Time:

Up to 200 hours between charging with typical use

Auto-Off Mode:

Select for 15, 30, 45 minutes, 1 hour or select 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

Calibration:

Digital

Filtering:

OFF, LO, HI-1, HI-2 selectable

Warranty:

One-year limited warranty

Approvals:

NTEP CC 89-090 - 500 lb-2,000 lb (250 kg-1,000 kg) NTEP CC 89-090A1 - 5,000 lb-70,000 lb $(2,000 \, kg - 35,000 \, kg)$

MSI-4260 IS Intrinsically Safe Crane Scale Port-A-Weigh

Part Number/Price

Part #	Description	Capacity	Resolution	Price
156013	227 kg, Swivel Hook	500 lb (250 kg)	0.2 lb (0.1 kg)	Consult
156014	907 kg, Swivel Hook	2,000 lb (1,000 kg)	1.0 lb (0.5 kg)	Consult
156015	2.268 kg, Swivel Hook	5,000 lb (2,500 kg)	1.0 lb (0.5 kg)	Consult
156016	4.536 kg, Swivel Hook	10,000 lb (5,000 kg)	2.0 lb (1.0 kg)	Consult
156017	9.072 kg, Swivel Hook	20,000 lb (10,000 kg)	5.0 lb (2.0 kg)	Consult
156018	13.608 kg, Swivel Hook	30,000 lb (15,000 kg)	10 lb (5.0 kg)	Consult
159019	22.680 kg, Swivel Hook	50,000 lb (25,000 kg)	10 lb (5.0 kg)	Consult
156020	31.752 kg, Swivel Hook	70,000 lb (35,000 kg)	20 lb (10 kg)	Consult
156021	45.359 kg, Swivel Hook	100,000 lb (50,000 kg)	20 lb (10 kg)	Consult
156022	22.680 kg, No attachments	50,000 lb (25,000 kg)	10 lb (5.0 kg)	Consult
156023	31.752 kg, No Attachments	70,000 lb (35,000 kg)	20 lb (10 kg)	Consult
156024	45.359 kg, No Attachments	100,000 lb (50,000 kg)	20 lb (10 kg)	Consult

Options/Assessories

Part #	Description	Price
170606	Battery Charger	Consult
167777	Spare Battery	Consult

MSI-4300 Port-A-Weigh Plus



Standard Features

- Crane unit with six-digit, 40 mm, backlight, liquid crystal display
- Top lifting eye or shackle, bottom thrust-bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)

Additional Options

(Contact MSI for application consultation)

- D-cell battery option, provides up to 2.000 hours of operation
- Substitute bottom swivel hook with shackle
- Oversized top-lifting eye or shackle
- Oversized bottom hook
- Universal direct power supply; 85-265 VAC, 47-440 Hz / 130-300 VDC
- Low headroom top adapter
- · Audible setpoint alarm
- NTEP Certified configuration
- · Custom top and bottom interfaces
- Crane scale cart



Optional crane scale cart

Specifications

Accuracy:

 \pm (0,1% +1 d) of applied load

Resolution:

 $3.000\ to\ 5.000\ d$ standard (Up to $10.000\ d$ available)

NEMA 4, IP66, marine grade 356 alloy anodized

Top Lifting Eye, Shackle and Hook:

Crosby® or equal with 360° thrust-bearing swivel hook

Design Overload:

200% Safe / 500% ultimate (except where noted)

Power, zero, net/gross, tare and programmable test/user

Display:

Six-digit, 40 mm LCD (upper) eight-digit, 20 mm LCD (lower) with adjustable display contrast

Displayable Units:

Pounds, kilograms, tons, and metric tons selectable

Power:

Approvals

12 volt rechargeable battery. 115/230 VAC battery charger included

Operating Time:

300 hours with typical use

Operating Temperature:

-10° C to 35° C

Filtering:

OFF, LO, Medium and HI selectable

Warranty:

One-year limited warranty



MSI-4300 Port-A-Weigh Plus

Part Numbers

Part #	MSI Part #	Description	Capacity	Resolution	Est. Weight	Price
138825	502666-0013	MSI-4300 250 kg F/A	250 kg	0,1 kg	24 kg	Consult
138826	502666-0014	MSI-4300 1.000 kg F/A	1.000 kg	0,5 kg	24 kg	Consult
138827	502666-0015	MSI-4300 2.500 kg F/A	2.500 kg	0,5 kg	28 kg	Consult
138828	502666-0016	MSI-4300 5.000 kg F/A	5.000 kg	1,0 kg	28 kg	Consult
138069	502235-0032	MSI-4300 10.000 kg F/A	10.000 kg	2,0 kg	47 kg	Consult
138070	502235-0033	MSI-4300 15.000 kg F/A	15.000 kg	5,0 kg	55 kg	Consult
138071*	502235-0034	MSI-4300 25.000 kg F/A	25.000 kg	5,0 kg	106 kg	Consult
138072**	502235-0035	MSI-4300 35.000 kg F/A	35.000 kg	10 kg	121 kg	Consult
138073***	502235-0036	MSI-4300 50.000 kg F/A	50.000 kg	10 kg	189kg	Consult

Part #	MSI Part #	Description	Est. Weight	Price
159221	N/A	Universal crane scale transport cart	82 kg	Consult
Consult	N/A	Audible set point alarm		Consult
Consult	N/A	AC power supply		Consult
Consult	N/A	D cell battery option		Consult
Accessor	ies			
150367	D00559-0004	Battery assembly, 12 volt rechargeable	3 kg	Consult
138006	502221-0001	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	2 kg	Consult
138007	502221-0002	Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard)	2 kg	Consult
138008	502221-0003	Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard)	2 kg	Consult
4300 Sub	Hook with Shackl	e		
Consult	N/A	250 to 5.000 kg, 6,5 ton shackle		Consult
Consult	N/A	10.000 to 15.000 kg, 17 ton shackle		Consult
Consult	N/A	25.000 kg, 25 ton shackle		Consult
Consult	N/A	35.000 kg, 40 ton shackle		Consult
Consult	N/A	50.000 kg, 55 ton shackle		Consult
4300 Ove	rsize Lifting Eye/S	hackle		
Consult	N/A	250 to 5.000 kg capacity		Consult
Consult	N/A	10.000 to 15.000 kg capacity, adapter with 25 ton shackle		Consult
Consult	N/A	25.000 to 35.000 kg capacity		Consult
Consult	N/A	50.000 kg capacity		Consult

^{* 490%} of kg capacity

^{** 475%} of lb capacity/430% of kg capacity

^{*** 450%} of kg capacity

MSI-9300 Port-A-Weigh Plus CellScale™ RF



Standard Features

- · Crane unit with 2,4 GHz FHSS transceiver
- · Six-digit, 30 mm LED display and annunciators
- Top lifting eye or shackle, and bottom thrust-bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)

Additional Options

(Contact MSI for application consultation)

- RF remote crane unit control, includes On/Off, Zero, Tare, Net/Gross, Total and programmable function keys
- Audible alarm
- Anti-heat shielding for high temperature applications
- · Substitute bottom swivel hook with shackle
- Low headroom top adapter
- · Oversized top lifting eye or shackle
- · Oversized bottom hook
- Universal direct power supply; 85-265 VAC, 47-440 Hz / 130-300 VDC
- Wireless 802.11 b/g Ethernet connectivity
- $\bullet \ \ \text{MSI-9300 retrofit kit conversion kit to upgrade existing MSI-4300 crane scale to 9300 RF unit}$
- · Custom top and bottom interfaces
- Potential receivers: MSI-9850, 9750A, remote RF Indicators or LaserLight 2 (each sold separately).
- Crane scale cart



Specifications

Accuracy:

 \pm (0,1% +1 d) of applied load

Resolution:

3.000 to 5.000 d standard (up to 10.000 d available)

Enclosure

NEMA Type 4, IP66, marine grade 356 alloy anodized cast aluminum

Lifting Eye, Shackle & Hook:

Crosby® or equal with 360° thrust-bearing swivel hook.

Design Overload:

200% Safe / 500% Ultimate (except where noted)

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Power, zero, net/gross, tare and programmable test/user

Display:

Six-digit, 30 mm LED with 14 feature annunciators and programmable brightness control

Displayable Units:

Pounds or kilograms selectable

Power:

Approvals

12 volt rechargeable battery, 115-230 VAC battery charger included

Operating Time:

Up to 30 hours between charging with typical use

Operating Temperature:

-20° C to 60° C

Calibration:

Digital via MSI-9750A or MSI-9850 RF indicators or via serial interface with PC terminal program.

Filtering

LO, Medium and HI selectable

Radio Link:

FHSS at 2,4 GHz

Radio Effective Range:

Typically 150 m indoor, 300 m outdoor with standard antennas.

Warranty:

One-year limited warranty

Approvals:

NTEP CC 07-007; 2.500 kg-35.000 kg capacities

MSI-9300 Port-A-Weigh Plus CellScale™ RF

Part Numbers

Part #	MSI Part #	Description	Capacity	Resolution	Est. Weight	Price
138704	502654-0001	MSI-9300 250 kg F/A	250 kg	0,1 kg	24 kg	Consult
138705	502654-0002	MSI-9300 1.000 kg F/A	1.000 kg	0,5 kg	24 kg	Consult
138706	502654-0003	MSI-9300 2.500 kg F/A	2.500 kg	0,5 kg	28 kg	Consult
138707	502654-0004	MSI-9300 5.000 kg F/A	5.000 kg	1,0 kg	28 kg	Consult
138409	502518-0005	MSI-9300 10.000 kg F/A	10.000 kg	2,0 kg	47 kg	Consult
138410	502518-0006	MSI-9300 15.000 kg F/A	15.000 kg	5,0 kg	55 kg	Consult
138419*	502518-0015	MSI-9300 25.000 kg F/A	25.000 kg	5,0 kg	106 kg	Consult
138420**	502518-0016	MSI-9300 35.000 kg F/A	35.000 kg	10 kg	121 kg	Consult
138421***	502518-0017	MSI-9300 50.000 kg F/A	50.000 kg	10 kg	189 kg	Consult

Part #	MSI Part #	Description	Est. Weight	Price
159625	N/A	MSI-9850 RF remote indicator (wall or desk mount)	5 kg	Consult
138486	502541-0001	MSI-9750 RF portable indicator	1 kg	Consult
Consult	N/A	LaserLight 2, 101 mm six-digit RF scoreboard	10 kg	Consult
Consult	N/A	LaserLight 2, 152 mm six-digit RF scoreboard	17 kg	Consult
138341	502488-0001	Universal mounting bracket for MSI-9850 RF remote indicator	1 kg	Consult
159221	N/A	Universal crane scale transport cart	82 kg	Consult
138298	502434-0001	RF remote controller	0,45 kg	Consult
138317	502452-0001	Spare RF remote	0,45 kg	Consult
Consult	N/A	AC power supply		Consult
Consult	N/A	Anti-heat shield		Consult
Consult	N/A	Audible alarm		Consult
Consult	N/A	Wi-Fi Ethernet option		Consult
138452	502520-0001	Retrofit kit 4300 D cell to 9300 12V	1 lb	Consult
138453	502520-0002	Retrofit kit 4300 D cell to 9300 no modem	1 lb	Consult
138454	502520-0003	Retrofit kit 4300 to 9300	1 lb	Consult
138455	502520-0004	Retrofit kit 4300 to 9300 no modem	1 lb	Consult
9300 Sub I	Hook with Shackle			
Consult	N/A	250 kg to 5.000 kg, 6,5 ton shackle		Consult
Consult	N/A	10.000 to 15.000 kg, 17 ton shackle		Consult
Consult	N/A	25.000 kg, 25 ton shackle		Consult
Consult	N/A	35.000 kg, 40 ton shackle		Consult
Consult	N/A	50.000 kg, 55 ton shackle		Consult
9300 Overs	size Lifting Eye/Sha	ckle		
Consult	N/A	250 kg to 5.000 kg capacity		Consult
Consult	N/A	10.000 to 15.000 kg capacity, adapter with 25 ton shackle		Consult
Consult	N/A	25.000 to 50.000 kg capacity		Consult
Consult	N/A	50.000 kg capacity		Consult
Accessorie				
150367	D00559-0004	Battery assembly, 12 volt rechargeable	3 kg	Consult
148624	501705-0001	RS-232/RS-485 serial cable	0,45 kg	Consult
138006	502221-0001	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	2 kg	Consult
138007	502221-0002	Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard)	2 kg	Consult
138008	502221-0003	Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard)	2 kg	Consult

^{* 490%} of kg capacity

^{** 475%} of lb capacity/430% of kg capacity

^{*** 450%} of kg capacity

MSI-9300HT Hi-Torque Port-A-Weigh Plus CellScale™ RF



Standard Features

- Crane unit with 2.4 GHz spread spectrum transceiver
- Six-digit, 30 mm (1.2 in) LED display and annunciators
- Top shackle interface and fixed bottom hook (Note: Top shackle not included, see Options)
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)
- Hi-torque load train designed for use with powered rotation

Additional Options

(Contact MSI for application consultation)

- RF remote crane unit control, includes On/Off, Zero, Tare, Net/Gross, Total, and programmable function keys
- Anti-heat shielding for high temperature applications
- Substitute bottom hook with shackle
- · Oversized top or shackle
- Oversized bottom hooks
- Universal direct power supply; 85-265 VAC, 47-440 Hz / 130-300 VDC
- Wireless 802.11 b/g Ethernet connectivity
- Low headroom top adaptor
- Top shackle
- Audible alarm
- Custom top and bottom interfaces
- Potential receivers: MSI-9850, 9750A, remote RF Indicators or LaserLight 2 (each sold separately).

Specifications

Accuracy:

 \pm (0,1% +1 d) of capacity

Resolution:

 $3.000\ to\ 5.000\ d$ standard (up to $10.000\ d$ available)

Enclosure

NEMA Type 4, IP66, marine grade 356 alloy anodized cast aluminum

Lifting Eye, Shackle & Hook:

Shackle is optional and Crosby® fixed hook provided as standard.

Design Overload:

200% Safe / 500% Ultimate

Functions

Power, zero, net/gross, tare and programmable test/user

Display:

Six-digit, 30 mm LED with 14 feature annunciators and programmable brightness control

Displayable Units:

Pounds or kilograms selectable

Power:

12 volt rechargeable battery, 115-230 VAC battery charger included

Operating Time:

Up to 30 hours between charging with typical use

Operating Temperature:

-20°C to 60°C

Calibration:

Digital via MSI-9750A or MSI-9850 RF indicators or via serial interface with PC terminal program.

Filtering:

LO, Medium and HI selectable

Radio Link:

FHSS at 2,4 GHz

Radio Effective Range:

Typically 150 m indoor, 300 m outdoor with standard antennas.

Warranty:

One-year limited warranty

MSI-9300HT Hi-Torque Port-A-Weigh Plus CellScale™ RF

Part Number/Price

Part #	MSI Part #	Description	Capacity	Resolution	Est. Weight	Price
138440	502519-0001	MSI-9300HT 15.000 kg F/A	15.000 kg	5.0 kg	55 kg	Consult
138441	502519-0002	MSI-9300HT 35.000 kg F/A	35.000 kg	10 kg	121 kg	Consult
162377	N/A	MSI-9300HT 60.000 kg F/A	60.000 kg	20 kg	250 kg	Consult

Part #	MSI Part #	Description	Est. Weight	Price
141992	10539	Top lifting shackle Crosby® G2130 17 ton for 15.000 kg cap unit	8.9 kg	Consult
146335	23650-0040	Top lifting shackle Crosby® G2140 40 ton for 35.000 kg cap unit	15 kg	Consult
146336	23650-0050	Top lifting shackle Crosby® G2140 55 ton* for 60.000 kg cap unit	47 kg	Consult
159625	N/A	MSI-9850 RF remote indicator (wall or desk mount)	5 kg	Consult
138486	502541-0001	MSI-9750 RF portable Indicator	1 kg	Consult
Consult	N/A	LaserLight 2, 101 mm six-digit RF scoreboard	10 kg	Consult
Consult	N/A	LaserLight 2, 152 mm six-digit RF scoreboard	17 kg	Consult
138341	502488-0001	Universal mounting bracket for MSI-9850 RF remote indicator	1 kg	Consult
159221	N/A	Universal crane scale transport cart	82 kg	Consult
138298	502434-0001	RF remote controller	0.45 kg	Consult
138317	502452-0001	Spare RF remote	0.45 kg	Consult
Consult	N/A	AC direct power supply		Consult
Consult	N/A	Anti-heat shield		Consult
Consult	N/A	Audible alarm		Consult
Consult	N/A	Wi-Fi Ethernet option		Consult
Accessori	es			
148624	501705-0001	RS-232/RS-485 serial cable	0,45 kg	Consult
150367	D00559-0004	Battery assembly, 12 volt rechargeable	3 kg	Consult
138006	502221-0001	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	1,8 kg	Consult
138007	502221-0002	Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard)	1,8 kg	Consult
138008	502221-0003	Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard)	1,8 kg	Consult

^{* 55} Metric Tons = 121,254 lbs

MSI-6260CS Trans-Weigh CellScale™ RF



Standard Features

- Crane unit with 2,4 GHz spread spectrum transceiver
- · Top lifting eye or shackle, and bottom thrust-bearing swivel hook
- 12 volt rechargeable battery and universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)





Additional Options

(Contact MSI for application consultation)

- · NTEP Certified configuration
- ScaleCore configurations available
- Anti-heat shielding for high temperature applications
- · Substitute bottom swivel hook with shackle
- Oversized top lifting eye or shackle
- · Oversized bottom hook
- · Low headroom top adaptor
- Universal direct power supply; 85-265 VAC, 47-440 Hz / 130-300 VDC
- Wireless 802.11 b/g Ethernet connectivity
- MSI-6260CS retrofit kit conversion kit to upgrade existing MSI-4260 crane scales to MSI-6260CS
- Custom top and bottom interfaces
- Potential receivers: MSI-9850, 9750A, remote RF Indicators or LaserLight 2. (Each sold separately.)
- · Crane scale cart

Specifications

Accuracy:

 \pm (0,1% +1 d) of applied load

Resolution:

3.000 to 5.000 d standard (up to 10.000 d available)

Enclosure:

NEMA Type 4, IP66, marine grade 356 alloy anodized cast aluminum

Lifting Eye, Shackle & Hook:

Crosby® or equivalent with 360° thrust-bearing swivel hook

Design Overload:

200% Safe / 500% Ultimate (except where noted)

Functions:

Power on/off (all other scale functions are controlled from optional networked MSI scale indicators MSI-9850 and/or MSI-9750A)

Displayable Units:

Pounds or kilograms selectable

Power

12 volt rechargeable battery, 115/230 VAC battery charger included

Operating Time:

Up to 40 hours between charging with typical use

Operating Temperature:

-20°C to 60°C

Calibration:

Digital via MSI-9750A or MSI-9850 RF indicators or via serial interface with PC terminal program

Radio Link:

FHSS at 2,4 GHz

Radio Link Effective Range:

Typically 150 m indoor, 300 m outdoor with standard antennas

Warranty:

One-year limited warranty

Approvals:

NTEP CC 07-007: 2.500 kg to 35.000 kg



MSI-6260CS Trans-Weigh CellScale™ RF

Part Number/Price

Part #	MSI Part #	Description	Capacity	Resolution	Est. Weight	Price
138729	502655-0001	MSI-6260 250 kg F/A	250 kg	0,1 kg	24 kg	Consult
138730	502655-0002	MSI-6260 1000 kg F/A	1000 kg	0,5 kg	24 kg	Consult
138731	502655-0003	MSI-6260 2500 kg F/A	2500 kg	0,5 kg	28 kg	Consult
138732	502655-0004	MSI-6260 5000 kg F/A	5000 kg	1,0 kg	28 kg	Consult
138506	502559-0005	MSI-6260 10.000 kg F/A	10.000 kg	2,0 kg	47 kg	Consult
138507	502559-0006	MSI-6260 15.000 kg F/A	15.000 kg	5,0 kg	55 kg	Consult
138508*	502559-0007	MSI-6260 25.000 kg F/A	25.000 kg	5,0 kg	106 kg	Consult
138509**	502559-0008	MSI-6260 35.000 kg F/A	35.000 kg	10 kg	121 kg	Consult
138510***	502559-0009	MSI-6260 50.000 kg F/A	50.000 kg	10 kg	189 kg	Consult

Part #	MSI Part #	Description	Est. Weight	Price
159625	N/A	MSI-9850 RF remote indicator (wall or desk mount)	5 kg	Consult
138486	502541-0001	MSI-9750 RF portable indicator	1 kg	Consult
138341	502488-0001	Universal mounting bracket for MSI-9850 RF remote indicator	1 kg	Consult
159221	N/A	Universal crane scale transport cart	82 kg	Consult
Consult	N/A	LaserLight 2, 101 mm six-digit RF scoreboard	10 kg	Consult
Consult	N/A	LaserLight 2, 152 mm six-digit RF scoreboard	17 kg	Consult
Consult	N/A	AC power supply		Consult
Consult	N/A	Anti-heat shield		Consult
Consult	N/A	Audible alarm		Consult
Consult	N/A	Wi-Fi Ethernet option		Consult
138575	N/A	Retrofit kit 4260 to 6260 CS	0,45 kg	Consult
6260 Sub	Hook with Shackle			
Consult	N/A	250 to 5.000 kg, 6.5 ton shackle		Consult
Consult	N/A	10.000 to 15.000 kg, 17 ton shackle		Consult
Consult	N/A	25.000 kg, 25 ton shackle		Consult
Consult	N/A	35.000 kg, 40 ton shackle		Consult
Consult	N/A	50.000 kg, 55 ton shackle		Consult
6260 Ove	rsize Lifting Eye/Sha	ockle		
Consult	N/A	250 to 5.000 kg capacity		Consult
Consult	N/A	10.000 to 15.000 kg capacity, adapter with 25 ton shackle		Consult
Consult	N/A	25.000 to 35.000 kg capacity		Consult
Consult	N/A	50.000 kg capacity		Consult
Accessor	ies			
148624	501705-0001	RS-232/RS-485 serial cable	0,45 kg	Consult
150367	D00559-0004	Battery assembly, 12 volt rechargeable	3 kg	Consult
138006	502221-0001	Universal 115/230 VAC, 50/60 Hz battery charger (NA plug standard)	2kg	Consult
138007	502221-0002	Universal 115/230 VAC, 50/60 Hz battery charger (UK plug standard)	2kg	Consult
138008	502221-0003	Universal 115/230 VAC, 50/60 Hz battery charger (EC plug standard)	2 kg	Consult

^{* 490%} of kg capacity

^{** 475%} of lb capacity/430% of kg capacity

^{*** 450%} of kg capacity

MSI-7300 Dyna-Link 2 Digital Tension Dynamometer





Optional rugged remote

Standard Features

- Tension dynamometer with six-digit, 25,4 mm LCD display
- Two C alkaline batteries for capacities up to 5.000 kg
- Two D alkaline batteries for capacities 12.500 kg and above

Additional Options

(Contact MSI for application consultation)

- · Crosby® top and bottom shackles
- Portable transport case
- Serial output cable
- Rugged remote control (control for Off, Zero, Tare and other functions)
- RF modem install for connectivity to MSI-8000, MSI-8000HD RF, MSI-8004HD RF remote display (30,5 m line of sight)
- Heavy capacity configurations (60 to 275 Ton)
- Audible alarm
- Wi-Fi or Bluetooth® communications (additional use with MSI-ScaleCore Connect (available for download at Google Play Store))
- Potential receivers: MSI-8000, MSI-8000HD RF, MSI-8004HD RF, TranSend, LaserLight 2

Specifications

Accuracy:

0.1% FS of rated capacity (up to 50 ton) 0.5.% FS of rated capacity (50 ton and above)

Enclosure:

NEMA Type 4, IP65, anodized corrosion-resistant finish

Material:

2024 aircraft grade aluminum

Capacities above 100 K have zinc plated enclosures and 4340 load cell bodies

Design Overload:

200% Safe / 700% Ultimate* (except where noted)

On/Off, Zero, Hi-Speed Peak Hold, Setpoints, Total, Tare, Auto-Off, Motion Filter

Display:

Six-digit, 25,4 mm LCD

Displayable Units:

Pounds, kilograms, kilonewtons, tons, metric tons

LED Annunciators:

Function 1, Function 2, Setpoint 1, Setpoint 2

LCD Annunciators:

Net, Center of Zero, Stable, Battery Test, Peak Hold, Total

Power:

Two C alkaline batteries for capacities up to 5.000 kg two D alkaline batteries for capacities 12.500 kg-50.000 kg

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.

Operating Temperature:

- 40°C to 50°C (Industrial)

Calibration:

Digital

Filtering:

OFF, LO, HI selectable

Data Output:

Serial RS-232

Warranty:

Two-year limited warranty

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Part #	MSI Part #	Description	Capacity	Resolution	Est. Weight	Price
139162	502967-0001	MSI-7300 500 kg F/A	500 kg	0,2 kg	3,6 kg	Consult
139163	502967-0002	MSI-7300 1.250 kg F/A	1.250 kg	0,5 kg	4,0 kg	Consult
139164	502967-0003	MSI-7300 2.500 kg F/A	2.500 kg	1,0 kg	4,0 kg	Consult
139165	502967-0004	MSI-7300 5.000 kg F/A	5.000 kg	2,0 kg	5,0 kg	Consult
139166	502967-0005	MSI-7300 12.500 kg F/A	12.500 kg	5 kg	8,6 kg	Consult
139167	502967-0006	MSI-7300 25.000 kg F/A	25.000 kg	10 kg	13 kg	Consult
139168*	502967-0007	MSI-7300 50.000 kg F/A	50.000 kg	20 kg	30 kg	Consult
Optional Cor	figurations (for	connectivity to MSI-8000 RF Remote Display) F	-/A			
139441	503381-0001	MSI-7300 RF module	500 kg	0,2 kg	3,6 kg	Consult
139442	503381-0002	MSI-7300 RF module	1.250 kg	0,5 kg	4 kg	Consult
139443	503381-0003	MSI-7300 RF module	2.500 kg	1 kg	4 kg	Consult
139444	503381-0004	MSI-7300 RF module	5.000 kg	2 kg	5 kg	Consult
139445	503381-0005	MSI-7300 RF module	12.500 kg	5 kg	8,6 kg	Consult
139446	503381-0006	MSI-7300 RF module	25.000 kg	10 kg	13 kg	Consult
139447*	503381-0007	MSI-7300 RF module	50.000 kg	20 kg	30 kg	Consult
159168*	N/A	MSI-7300 RF module	60.000 kg	20 kg	26 kg	Consult
159169*	N/A	MSI-7300 RF module	90.000 kg	50 kg	36 kg	Consult
159170*	N/A	MSI-7300 RF module	130.000 kg	50 kg	45 kg	Consult
159171*	N/A	MSI-7300 RF module	190.000 kg	100 kg	77 kg	Consult
159172**	N/A	MSI-7300 RF module	275.000 kg	100 kg	152 kg	Consult

MSI-7300 Dyna-Link 2 Digital Tension Dynamometer

Part Number/Price

Part #	MSI Part #	Description	Capacity	Resolution	Est. Weight	Price
176806	N/A	MSI-7300 500 kg F/A with Bluetooth® RF ***	500 kg	0,2 kg	3,6 kg	Consult
176807	N/A	MSI-7300 1.250 kg F/A with Bluetooth® RF ***	1.250 kg	0,5 kg	4,0 kg	Consult
176808	N/A	MSI-7300 2.500 kg F/A with Bluetooth® RF ***	2.500 kg	1 kg	4,0 kg	Consult
176809	N/A	MSI-7300 5.000 kg F/A with Bluetooth® RF ***	5.000 kg	2 kg	5,0 kg	Consult
176810	N/A	MSI-7300 12.500 kg F/A with Bluetooth® RF ***	12.500 k	5 kg	8,6 kg	Consult
176811	N/A	MSI-7300 25.000 kg F/A with Bluetooth® RF ***	25.000 kg	10 kg	13 kg	Consult
176812	N/A	MSI-7300 50.000 kg F/A with Bluetooth® RF ***	50.000 kg	20 kg	30 kg	Consult
176813	N/A	MSI-7300 500 kg F/A with Wi-Fi RF	500 kg	0,2 kg	3,6 kg	Consult
176814	N/A	MSI-7300 1.250 kg F/A with Wi-Fi RF	1.250 kg	0,5 kg	4,0 kg	Consult
176815	N/A	MSI-7300 2.500 kg F/A with Wi-Fi RF	2.500 kg	1 kg	4,0 kg	Consult
176816	N/A	MSI-7300 5.000 kg F/A with Wi-Fi RF	5.000 kg	2 kg	5,0 kg	Consult
176817	N/A	MSI-7300 12.500 kg F/A with Wi-Fi RF	12.500 kg	5 kg	8,6 kg	Consult
176818	N/A	MSI-7300 25.000 kg F/A with Wi-Fi RF	25.000 kg	10 kg	13 kg	Consult
176819	N/A	MSI-7300 50.000 kg F/A with Wi-Fi RF	50.000 kg	20 kg	30 kg	Consult
176822*	N/A	MSI-7300 60.000 kg F/A with Bluetooth® RF ***	60.000 kg	20 kg	26 kg	Consult
176823	N/A	MSI-7300 90.000 kg F/A with Bluetooth® RF ***	90.000 kg	50 kg	36 kg	Consult
176824	N/A	MSI-7300 130.000 kg F/A with Bluetooth® RF ***	130.000 kg	50 kg	45 kg	Consult
176825	N/A	MSI-7300 190.000 kg F/A with Bluetooth® RF ***	190.000 kg	100 kg	77 kg	Consult
176826**	N/A	MSI-7300 275.000 kg F/A with Bluetooth® RF ***	275.000 kg	100 kg	152 kg	Consult
176827	N/A	MSI-7300 60.000 kg F/A with Wi-Fi RF	60.000 kg	20 kg	26 kg	Consult
176828	N/A	MSI-7300 90.000 kg F/A with Wi-Fi RF	90.000 kg	50 kg	36 kg	Consult
176829	N/A	MSI-7300 130.000 kg F/A with Wi-Fi RF	130.000 kg	50 kg	45 kg	Consult
176830	N/A	MSI-7300 190.000 kg F/A with Wi-Fi RF	190.000 kg	100 kg	77 kg	Consult
176831	N/A	MSI-7300 275.000 kg F/A with Wi-Fi RF	275.000 kg	100 kg	152 kg	Consult

^{* 500%} Ultimate overload

Part #	MSI Part #	Description	Est. Weight	Price
151357	10541	Shackle anchor, bolt type 3,25 ton for 250 kg-2.500 kg unit	1,4 kg/pair	Consult
151355	10538	Shackle anchor, bolt type 6,5 ton for 5.000 kg unit	2,7 kg/pair	Consult
141992	10539	Shackle anchor, bolt type 17 ton for 12.500 kg unit	17,7 kg/pair	Consult
151356	10540	Shackle anchor, bolt type 25 ton for 25.000 kg unit	28,6 kg/pair	Consult
146336	23650-0050	Shackle anchor, bolt type 55 ton for 50.000 kg unit	82 kg/pair	Consult
151359	N/A	Shackle anchor, bolt type 85 ton for 90.000 kg unit	93 kg/pair	Consult
151360	N/A	Shackle anchor, bolt type 120 ton for 130.000 kg unit	102 kg/pair	Consult
151361	N/A	Shackle anchor, bolt type 175 ton for 190.000 kg unit	590 kg/pair	Consult
151358	N/A	Shackle anchor, bolt type 250 ton for 275.000 kg unit	318 kg/pair	Consult
139381	503208-0001	MSI-8000 RF remote display (requires MSI-7300 equipped with optional RF modem)	2,25 kg	Consult
153591	N/A	MSI-8000HD RF remote display, A/C powered with tilt stand	2,25 kg	Consult
165313	N/A	Heavy duty pelican transport case with precision cut Heavy duty foam for 250 kg-5.000 kg capacity units	4,5 kg	Consult
145076	14317	Transport case for 12.500 kg and 25.000 kg capacity unit	15,9 kg	Consult
145073	14311	Transport case for 50.000 kg capacity unit	19,1 kg	Consult
139470	503414-0002	RS-232 serial cable for MSI-7300	0,45 kg	Consult
178004	N/A	LaserLight 2 (101,6 mm with RF)	10 kg	Consult
178006	N/A	LaserLight 2 (152,4 mm with RF)	17 kg	Consul
149549	503486-0001	Universal 115/ 230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 remote display	1,4 kg	Consult
182223		12V car charger adapter for MSI-8000	1 lb	Consult
173014		Rugged remote control	N/A	Consult
150964	503489-0001	RS-232 4 m) serial cable for MSI-8000	0.45 kg	Consult
139438	N/A	Audible set point	N/A	Consult
149550	503486-0002	Battery charger for MSI-8000 EC plug	N/A	Consult

^{** 440%} Ultimate overload

^{***} Bluetooth modems only work with certain Android devices. Please contact office for potential applications.

MSI Dyna-Clamp Tension Meter



Standard Features

- · Dual line LCD display
- · Two user programmable function keys
- IP65 anodized aluminum frame
- RS-232 port

Additional Options

(Contact MSI for application consultation)

- · Heavy-duty carrying case
- RF communication

Part Number/Price

Part #	Description	Tension	Price
189581	MSI Dyna-Clamp line	5,670 kg	Consult

Options/Accessories

Part #	Description	Price
198418	Heavy-duty carrying case	Consult

Specifications

Power:

Battery operated two AA Cell 1.5 V alkaline batteries (can be replaced with rechargeable NiMH cells)

Max Tension:

12,500 lbf

Operating Time:

Alkaline AA Cells 24 hours

Wire Rope:

Diameter 5 mm - 25 mm

Accuracy:

Rated Accuracy ±3% of capacity

Units:

lbf, kgf, kN

Resolution:

Standard 1250-2500 divisions Internal A/D 24 bits

Two-Line LCD Display:

Primary display (bottom) six, 18 mm numeric digits Secondary display (top) eight, 13 mm numeric digits

Function Keys:

Programmable keys two (user programmable) – F1, F2 (TEST, UNIT, PRINT, SCROLL, ACTFUN) Permanent keys two (fixed) – POWER, ZERO

Setpoints:

Two dedicated setpoints for minimum and maximum allowable wire rope tension (LEDs for measurements outside of allowable range)

Auto-Off Mode:

Prolongs battery life by turning POWER off after 15, 30, 45 or 60 minutes of no scale activity (operator determined)

Enclosure:

IP65 anodized aluminum, 2024-T351 Aircraft Quality

Calibration:

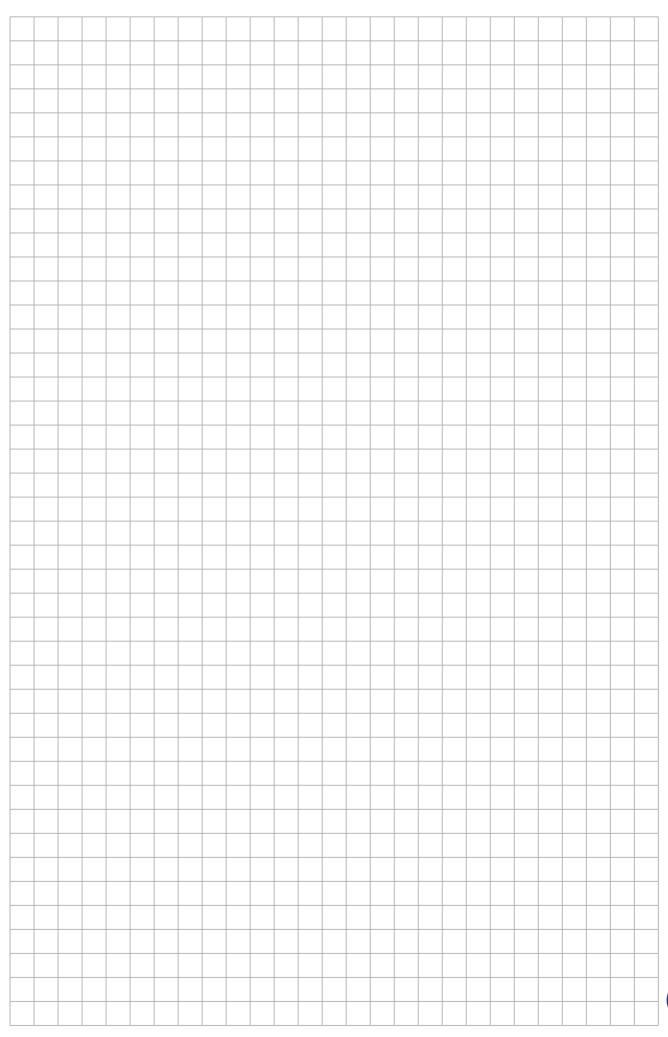
Up to eight (8) factory programmed wire rope calibrations

Operating Temp: -40°C-50°C

Operator Use:

Outdoor Storage:

Indoor



Models Available

RF TRANSCEIVERS

TranSend™

Wireless Load Cell Interface System



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
- Auto-off mode selectable for 15, 30, 45, 60 minutes or off
- Auto-sleep mode power down during non-use, power up with weight change or key press
- · Serial communication cable included with all transmitters

Additional HD Features

- IP68 milled aluminum enclosure
- · 2nd radio modem available

Specifications

Power

5-6 VDC, 7-36 VDC 85-265 VAC

Excitation Voltage:

Transmitter: +4.8 VDC, $16x 350\Omega$ or $32x 700\Omega$ load cells

Standard Antenna:

1/2 wave 2 dBi, articulated

Frequency

Direct sequence spread spectrum at 2,4 GHz,

Effective Range:

30,5 m or more

Digital I/0:

Three coil relays available on select models and 7000HD units

Circuit Protection:

RFI, EMI, ESD protection

Serial Port:

Full duplex RS-232

Operating Temperature:

-40° C to 85° C

Enclosure

NEMA Type 4 (IP66), aluminum black powder coated (excludes wall cube model) 7000HD and 7001HD: IP68

Additional RF Options:

Wi-Fi

Bluetooth®

Cellular (consult)

802.15.4 FHSS

Warranty:

One-year limited warranty

Part Number/Price

Part # Transmitters	Description	Est. Weight	Price
5-6 VDC Powe	er Input		
160330	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
159207	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
161949	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
176644 *	Single-channel transmitter, no relays, Bluetooth	0,9 kg	Consult
176638 *	Four-channel transmitter, no relays, Bluetooth	0,9 kg	Consult
176641 *	Four-channel transmitter, includes three coil relays, Bluetooth	0,9 kg	Consult
176655	Single-channel transmitter, no relays, Wi-Fi	0,9 kg	Consult
176648	Four-channel transmitter, no relays, Wi-Fi	0,9 kg	Consult
176652	Four-channel transmitter, includes three coil relays, Wi-Fi	0,9 kg	Consult
7-36 VDC Pow	ver Input		
160329	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
159470	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
161951	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
176645 *	Single-channel transmitter, no relays, Bluetooth	0,9 kg	Consult
176639 *	Four-channel transmitter, no relays, Bluetooth	0,9 kg	Consult
176642 *	Four-channel transmitter, includes three coil relays, Bluetooth	0,9 kg	Consult
176656	Single-channel transmitter, no relays, Wi-Fi	0,9 kg	Consult
176650	Four-channel transmitter, no relays, Wi-Fi	0,9 kg	Consult
176653	Four-channel transmitter, includes three coil relays, Wi-Fi	0,9 kg	Consult
85-265 VAC P	ower Input		
160328	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
159469	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
161950	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
176643 *	Single-channel transmitter, no relays, Bluetooth	1 kg	Consult
176637 *	Four-channel transmitter, no relays, Bluetooth	1 kg	Consult
176640 *	Four-channel transmitter, includes three coil relays, Bluetooth	1 kg	Consult
176654	Single-channel transmitter, no relays, Wi-Fi	0,9 kg	Consult
176647	Four-channel transmitter, no relays, Wi-Fi	0,9 kg	Consult
176651	Four-channel transmitter, includes three coil relays, Wi-Fi	0,9 kg	Consult

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TranSend™ Wireless Load Cell Interface System

Part #	Description	Est. Weight	Price
Receivers			
5-6 VDC Powe	r Input		
160337	Receiver to provide a mV signal to a digital weight indicator, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
160334	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ± 5 VDC, ± 10 VDC, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
160016	Receiver to provide an analog output signal: $4-20\text{mA}$, $0-20\text{mA}$, $0-5\text{VDC}$, $0-10\text{VDC}$, $\pm 5\text{VDC}$, $\pm 10\text{VDC}$, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
7-36 VDC Pow	er Input		
160336	Receiver to provide a mV signal to a digital weight indicator. RF 802.15.4, 2.4 GHz	0,9 kg	Consult
160333	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ± 5 VDC, ± 10 VDC, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
159476	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, \pm 5 VDC, \pm 10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
85-265 VAC Po	ower Input		
160335	Receiver to provide a mV signal to a digital weight indicator, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
160332	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ± 5 VDC, ± 10 VDC, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
159475	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ± 5 VDC, ± 10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
7000HD			
177942	MSI-7000HD 4CH 85-265 VAC, Three Coil Relays, 802.15.4		Consult
177944	MSI-7000HD 4CH 7-36 VDC, Three Coil Relays, 802.15.4		Consult
177945	MSI-7000HD 4CH 9-36 VDC Iso, Three Coil Relays, 802.15.4		Consult
177950 *	MSI-7000HD 4CH 85-265 VAC, Three Coil Relays, Bluetooth®		Consult
177952 *	MSI-7000HD 4CH 7-36 VDC, Three Coil Relays,Bluetooth		Consult
177953 *	MSI-7000HD 4CH 9-36 VDC Iso, Three Coil Relays,Bluetooth		Consult
177995	MSI-7000HD 4CH 85-265 VAC, Three Coil Relays, WiFi		Consult
177997	MSI-7000HD 4CH 7-36 VDC, Three Coil Relays, WiFi		Consult
177998	MSI-7000HD 4CH 9-36 VDC Iso, Three Coil Relays, WiFi		Consult
7001HD			
178021	MSI-7001HD 2CH 85-265 VAC, 802.15.4		Consult
178010	MSI-7001HD 2CH 5-6 VDC, 802.15.4		Consult
178011	MSI-7001HD 2CH 7-36 VDC, 802.15.4		Consult
178012	MSI-7001HD 2CH 9-36 VDC Isolated, 802.15.4		Consult
178013 *	MSI-7001HD 2CH 85-265 VAC, Bluetooth		Consult
178014 *	MSI-7001HD 2CH 5-6 VDC, Bluetooth		Consult
178015 *	MSI-7001HD 2CH 7-36 VDC, Bluetooth		Consult
178016 *	MSI-7001HD 2CH 9-36 VDC Isolated, Bluetooth		Consult
178017	MSI-7001HD 2CH 85-265 VAC, WiFi		Consult
178018	MSI-7001HD 2CH 5-6 VDC, WiFi		Consult
178019	MSI-7001HD 2CH 7-36 VDC, WiFi		Consult
178020	MSI-7001HD 2CH 9-36 VDC Isolated, WiFi		Consult

^{*} Bluetooth modems only work with certain Android devices. Please contact office for potential applications.

Part #	Description	Price
162172	Charger, TranSend™ for 6V SLA battery	Consult
162173	Battery, TranSend 6V SLA	Consult
162175	Enclosure, TranSend for 6V SLA battery	Consult
150964	RS-232 4 m serial cable with nine-pin (female) connector	Consult
150965	RS-232 4 m serial cable with nine-pin (male) connector	Consult
160109	AC adaptor, TranSend 6V	Consult
162178	Antenna extension kit for enclosures	Consult
139309	Antenna kit, long range Omni with 3 m coax cable	Consult
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	Consult
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	Consult
139312	Antenna kit, Yagi 15 dbi with 3 m coax	Consult
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	Consult
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	Consult
162177	Cordset, TranSend, pre-wired for use with single channel transmitters or non-relay based receivers	Consult
162184	Load cell connector, TranSend, Field wireable, 4-6 mm straight. For use with single channel transmitters and all receivers	Consult
162185	Load cell connector, TranSend, Field wireable, 6-8 mm straight. For use with single channel transmitters and all receivers	Consult
162186	Load cell connector, TranSend, Field wireable, 4-6 mm right angle. For use with single channel transmitters and all receivers	Consult

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Options/Accessories

Part #	Description	Price
162187	Load cell connector, TranSend, Field wireable, 6-8 mm right angle. For use with single channel transmitters and all receivers	Consult
143531	Power cord, 6 V SLA battery charger EU	Consult
143533	Power cord, 6 V SLA battery charger, Australia	Consult
143534	Power cord, 6 V SLA Battery charger, UK	Consult
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	Consult
145085	RS-232 serial cable, nine-pin unterminated	Consult
164865	Cable, 4 m, one-channel, mV/V output, LC input	Consult
165648	Cable, 5 m, one-channel, mV/V output, LC input	Consult
165651	Cable, 10 m, one-channel, mV/V output, LC input	Consult
145084	Cable, 2 m, one-channel, analog output	Consult
144400	Cable, 5 m, one-channel, analog output	Consult
168903	Cable, 10 m, one-channel, analog output	Consult
Consult	Straight connector, analog output, field wire able, 4-6 mM 0D	Consult
Consult	Straight connector, analog output, field wire able, 6-8 mM OD	Consult
Consult	Right angle connector, analog output, field wire able, 4-6 mM OD	Consult
Consult	Right angle connector, analog output, field wire able, 6-8 mM OD	Consult
184002	7000HD Half-plate mounted, FHSS, DC (battery) powered	Consult
182244	GoDex portable printer	Consult

Enclosure:

NEMA Type 4, IP65

Weight:

445 grams

Keypad:

On/Off, Zero (100%), Tare, Print, and two userdefined keys for the following functions: Peak hold, high resolution, total, view total, net/gross, units switching

Display:

Six-digit 26,4 mm LCD

Units Displayed:

Pounds, kilograms, tons, metric tons, kilonewtons

Annunciators:

Stable, COZ, low battery, peak, net, kg, kN, lb, M, ton, setpoint, function LEDs

Power:

Integral lithium ion battery Universal 115/230VAC, 50/60 Hz battery charger (NA plug included)

Operating Time:

Up to 24 hours of continuous use (15 minute auto-shutoff with non-use)

Operating Temperature:

-20° C to 60° C

RF Radio Link:

2,4 GHz 802.15.4

Communicates with RF 3460, 4260, 7300, 7000 & 7001

RF Effective Range:

Typically 33 m

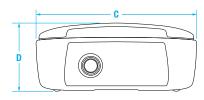
Connector:

Four-pin Turck connector for charging and RS-232 communication

Warranty:

One-year limited warranty







Standard Features

- Handheld RF remote display with six-digit 26,4 mm LCD screen
- · Membrane keypad for remote control functionality
- · User-definable function keys for added versatility
- Universal 115/230 VAC, 50/60 Hz battery charger (NA plug included)
- Communicates with RF 3460, 4260, 7300, 7000 & 7001

Part Number/Price

Part #	MSI Part#	Description	Est. Weight	Price
139381	503208-0001	MSI-8000 RF remote display (requires ScaleCore [™] equipped MSI-7300, MSI-4260, MSI-3460 and TranSend receivers)	2,27 kg	Consult

Options/Accessories

•	-			
Part #	MSI Part #	Description	Est. Weight	Price
149549	503486-0001	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000 RF remote display	1,36 kg	Consult
149550	503486-0002	Universal 115/230 VAC 50/60 Hz (EC plug standard) battery charger for MSI 8000 RF remote display	0,45 kg	Consult
150964	503489-0001	DB9 female serial interface cable for MSI-8000 RF remote display	0,45 kg	Consult
151095	503506-0001	Audible alarm	0 kg	Consult
182223		12V car charger adapter for MSI-8000	0,45 kg	Consult

Dimensions				
Α	203 mm	С	98 mm	
В	98 mm	D	35 mm	

MSI-8004HD

Indicator/RF LED Remote Display

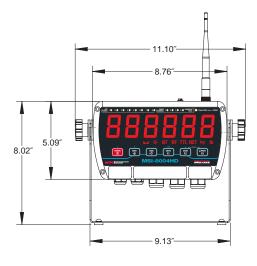


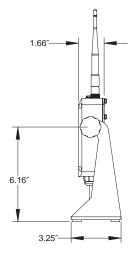
Standard Features

- IP65 rugged milled aluminum enclosure
- Backlit membrane keypad for user functioning and controls
- Tilt bracket included

Options

- · Expanded relay outputs
- · Battery pack for mobile operation
- · 2nd radio module for additional network connectivity





Specifications

Display

Six-digit, 38 mm LED display with red/green coloring

Enclosure:

NEMA Type 4, IP65 milled anodized aluminum

Kevpad

On/Off, Zero, Tare, Print and two user-defined keys

Functions

Peak hold, high resolution, total, view total, net/gross, units switching

Units

Pounds, kilograms, tons, metric tons, kilonewtons

Annunciators:

Stable, COZ, kg, lb, setpoint, channel LEDs,

Channels

1, 2, 3, 4, TTL

Power:

90-267 VAC, 9-36 VDC, 18-72 VDC, 120-300 VDC, 8-32 V, external battery options

Temperature:

-20° C to 60° C

RF Remote Channels:

Up to four 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:

Four independent or summing load cell inputs

Relays:

Approvals

Canada Approved

Two 5V coil, 250 VAC, 5A relays

Excitation:

4,8 V current limited and over-voltage protected

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, cellular connectivity or Bluetooth®

RF Effective Range:

Typically 91,44 m line of sight

Data I/0:

Two RS-232 hard wired communication ports

Approvals:

NTEP COC #17-036, Measurement Canada

Warranty:

Part Number/Price

Indicator		
Part #	Description	Price
178265	MSI-8004HD Indicator, 4CH AC, Red/Green 85~264 VAC, 47~440 Hz, 120~370 VDC	Consult
178269	MSI-8004HD Indicator, 4CH DC 8-32V, Red/Green Best for external 12V SLA Batteries	Consult
178271	MSI-8004HD Indicator, 4CH DC 9-36V Iso, Red/Green Do not use on 12V Vehicle Systems	Consult
178274	MSI-8004HD Indicator, 4CH DC 18-75V Iso, Red/Green	Consult
178278	MSI-8004HD Indicator, 4CH DC 5V Red/Green for use with external 15W, 5V power supplies	Consult
183481	MSI-8004HD Indicator, 4CH 5V Red/Green with external rechargeable battery	Consult
Remote Disp	lay	
178281	MSI-8004HD Display, AC, Red/Green 85~264 VAC, 47~440 Hz, 120~370 VDC	Consult
178283	MSI-8004HD Display, DC 8-32V, Red/Green Best for external 12 V SLA Batter	Consult
178285	MSI-8004HD Display, DC 9-36V Iso, Red/Green Do not use on 12 V Vehicle Systems	Consult
183479	MSI-8004HD Display, 4CH 5V Red/Green with external rechargeable battery	Consult

Options

Part #	Description	Price
148624	Serial Cable, RS-232 9000 Serial Cable, DCE	Consul
139309	Antenna Kit, Long Range Omni-directional, 9 dBi with 3 m Coax Intended for omni-directional mast mounting (up to 51 mm Ø). Beam-width. Must be mounted vertically.	Consul
139310	Antenna Kit, Corner Reflector, 9 dBi with 3 m coax intended for directional wall or mast mounting (up to 51 mm Ø). Beam-width: 75° Elevation, 65° Azimuth	Consul
139311	Antenna Kit, Corner Reflector, 12 dBi with 3 m coax intended for directional wall or mast mounting (up to 51 mm Ø). Beam-width: 50° Elevation, 36° Azimuth	Consul
139312	Antenna Kit, YAGI, 15 dBi with 3 m coax highly directional wall or mast mounting (up to 51 mm Ø). Beam-width: 30° Elevation, 34° Azimuth	Consul
139313	Antenna Kit, Vehicle Mount, 5 dBi with 5 m coax omni-directional. Mounts in 19,1 mm Hole.	Consul
162178	Antenna extension kit	Consul
155173	Option kit, tilt stand	Consul
155193	Option kit, Ethernet (hard wired) RJ-45 Cable (included)	Consul
171203	Audible alarm Not compatible with battery versions 22436	Consul
22436	Cable, Comm DB9F 9 Pin Fem One end stripped and tinned on other end 6 Pin 2 (Brown) Pin 3 (Red) Pin 5 (Yellow) For use with MSI-8004HD serial ports to connect to: Scoreboard displays, printers, computers & other equipment that supports RS-232	Consult
183437	Battery, 5V Li-ion battery with USB power ports. Output 5V/3,0A per port (6,0 A max)Rate, 2A per port (4A if both ports are used)	Consult
184132	8004 option kit, Bluetooth® with SMA antenna	Consul
184131	8004 option kit, WiFi with SMA antenna	Consul
182224	Power Adapter, 12VDC 5VDC Dual USB Car Charger plus 0,9 m USB Cable	Consul
Relays		
172500	Expanded Relays Option Kit, four-channel, 3A, 60VPK SSR form C	Consul
172501	Expanded Relays Option Kit, eight-channel, 3A 60VPK, SSR form C	Consult
172493	Expanded Relays Option Kit, four-channel, 3A 60VPK, AC/DC SSR	Consult
172497	Expanded Relays Option Kit, eight-channel, 3A 60VPK, AC/DC SSR	Consult
172494	Expanded Relays Option Kit, four-channel, 0,9A 200VPK, AC/DC SSR	Consult
172502	Expanded Relays Option Kit, eight-channel, 0,9A 200VPK, SSR form C	
172498	Expanded Relays Option Kit, eight-channel, 0,9A 200VPK, SSR	Consult
172492	Expanded Relays Option Kit, four-channel, 12A 5V, momentary	
172495	Expanded Relays Option Kit, eight-channel, 12A 5V, momentary	Consul
172490	Expanded Relays Option Kit, four-channel, 12A 5V, latching relays	Consul
171676	Expanded Relays Option Kit, eight-channel, 12A 5V, latching relays	Consul



Shown with tilt stand.

Approvals

Standard Features

- Indicator or RF remote display with six-digit 26,4 mm LCD screen
- IP68 milled aluminum enclosure
- · Membrane keypad for remote-control functionality
- · User-definable function keys for added versatility
- 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
- · Swivel tilt stand

Optional Features

- Up to 8 configurable relay outputs
- Wi-Fi communications
- Bluetooth® communications
- 802.15.4 Serial RF
- FHSS

Specifications

Enclosure:

NEMA Type 4, IP68 milled anodized aluminum with 0-ring gaskets

Keypad:

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

Display:

Six-digit 26,4 mm LCD

Units Displayed:

Pounds, kilograms, tons, metric tons, kilonewtons

Annunciators:

Stable, COZ, peak, kg, kN. lb, M, ton, setpoint, function LEDs. Channels: 1, 2, 3, 4, TTL

90-267 VAC, 9-36 VDC, 18-72 VDC, 120-300 VDC Optional battery power module available

Operating Temperature:

-20° C to 60° C

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

Excitation:

4.8V current limited and over-voltage protected

Filtering:

Off, Low, Hi-1, Hi-2

RF Radio Link:

2.4 GHz 802.15.4

Compatible with all ScaleCoreTM-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 33 m or more

Data I/0:

Dual RS-232 comm ports

Wired Ethernet:

Up to 8 configurable relay outputs

Optional Communications:

Wi-Fi

Bluetooth®

Serial RF, Frequent Hopping Spread Spectrum Optional

Warranty:

One-year limited warranty

Approvals:

NTEP COC#15-110

MSI-8000HD Indicator/Remote Display

Part Number/Price

Part #	Description	Est. Weight	Price
153591	MSI 8000HD ScaleCore RF/Remote Display/85-265 VAC	2.5 kg	Consult
154853	MSI 8000HD ScaleCore RF/Remote Display/Internal Battery	2.5 kg	Consult
160476	MSI 8000HD ScaleCore RF/Remote Display/7-36 VDC	2.5 kg	Consult
159377	MSI 8000HD ScaleCore RF/Remote Display/18-72 VDC	2.5 kg	Consult
159376	MSI 8000HD ScaleCore RF/Remote Display/9-36 VDC	2.5 kg	Consult
158427	MSI 8000HD Meter/2 A/D Inputs/85-265 VAC (non RF)	2.5 kg	Consult
158428	MSI 8000HD Meter/2 A/D Inputs/Internal Battery (non RF)	2.5 kg	Consult
160478	MSI 8000HD Meter/2 A/D Inputs/7-36 VDC (non RF)	2.5 kg	Consult
159381	MSI 8000HD Meter/2 A/D Inputs/18-72 VDC (non RF)	2.5 kg	Consult
159380	MSI 8000HD Meter/2 A/D Inputs/9-36 VDC (non RF)	2.5 kg	Consult
158425	MSI-8000HD RF Meter/2 A/D Inputs/85-265 VAC	2.5 kg	Consult
158426	MSI-8000HD RF Meter/2 A/D Inputs/Internal Battery	2.5 kg	Consult
160477	MSI 8000HD RF Meter/2 A/D Inputs/7-36 VDC	2.5 kg	Consult
159379	MSI 8000HD RF Meter/2 A/D Inputs/18-72 VDC	2.5 kg	Consult
159378	MSI 8000HD RF Meter/2 A/D Inputs/9-36VDC	2.5 kg	Consult
176957 *	MSI 8000HD BT Meter/85-265 VAC	2.5 kg	Consult
176958	MSI 8000HD Wi-Fi Meter/85/265 VAC	2.5 kg	Consult
176959 *	MSI 8000HD BT Meter/Internal Battery	2.5 kg	Consult
176960	MSI 8000HD Wi-Fi Meter/Internal Battery	2.5 kg	Consult
176962 *	MSI 8000HD BT Meter/7-36 VDC	2.5 kg	Consult
176964	MSI 8000HD Wi-Fi Meter/7-36 VDC	2.5 kg	Consult
176965 *	MSI 8000HD BT Meter/9-36 VDC	2.5 kg	Consult
176966	MSI 8000HD Wi-Fi Meter/9-36 VDC	2.5 kg	Consult
176967 *	MSI 8000HD BT Meter/18-72 VDC	2.5 kg	Consult
176968	MSI 8000HD Wi-Fi Meter/18-72 VDC	2.5 kg	Consult

^{*} Bluetooth modems only work with certain Android devices. Please contact office for potential applications.

Options/Accessories

Part #	Description	Price
155173	MSI-8000HD spare tilt stand option kit	Consult
155193	MSI-8000HD Ethernet TCP/IP option kit wired	Consult
162178	Antenna extension kit	Consult
148624	MSI-8000HD serial RS-232 cable	Consult
158779	MSI-8000HD two each coil relay option kit, 250 VAC/30 VDC 5A or 100 VDC 0,4A	Consult
158780	MSI-8000HD two each solid state relay option kit, 60 Vpk 2,7A	Consult
158781	MSI-8000HD two each solid state relay option kit, 200 Vpk 0,9A	Consult
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000HD battery powered device	Consult
149550	Universal 115/230 VAC 50/60 Hz (international plugs) battery charger for MSI-8000HD battery powered device	Consult
176963	Reverse RS-232 cable	Consult
Relays		
172490	Expanded Relay Kit, Four-Channel, 12A 5V, Latching Relays	Consult
172492	Expanded Relay Kit, Four-Channel, 12A 5V, Momentary Relays	Consult
172493	Expanded Relay Kit, Four-Channel, 3A 60Vpk, AC/DC Solid State Relays	Consult
172494	Expanded Relay Kit, Four-Channel, 0,9A 200Vpk, AC/DC Solid State Relays	Consult
172495	Expanded Relay Kit, Eight-Channel, 12A 5V, Momentary Relays	Consult
172497	Expanded Relay Kit, Eight-Channel, 3A 60Vpk, AC/DC Solid State Relays	Consult
172498	Expanded Relay Kit, Eight-Channel, 0,9A 200VPK, Solid State Relays	Consult
172500	Expanded Relays Option Kit, Four-Channel, 3A, 60Vpk Solid State Form C Relays	Consult
172501	Expanded Relays Option Kit, Eight-Channel, 3A 60Vpk, Solid State Form C Relays	Consult
172502	Expanded Relays Option Kit, Eight-Channel, 0,9A 200Vpk, Solid State Form C Relays	Consult
171676	Expanded Relays Option Kit, Eight-Channel, 12A 5V, Latching Relays	Consult

MSI-9020 CellScale™ RF CellModem



Standard Features

- Modem-only component; provides serial interface with computers, printers and scoreboards to a CellScale network
- 2,4 GHz spread spectrum frequency hopping
- Power cable, 4 m for 9-30 VDC input
- One communication port; RS-232 or RS-422, 4m interface cable
- NEMA Type 4, IP65 enclosure (NEMA Type 6, IP67 with long range antenna)

Part Number/Price

Part #	MSI Part #	Description	Est. Weight	Price
138477	502536-0001	MSI-9020 RF CellModem	3,5 kg	Consult

Options/Accessories

Part #	MSI Part #	Description	Est. Weight	Price
Consult	Consult	Internal 85-265 VAC, 47-440 Hz power supply	-	Consult
143466	12147	Long range antenna, 300 m-500 m omni-directional with 9 dBi gain, includes 3 m coaxial cable	0,45 kg	Consult
Consult	Consult	9 dBi or 14 dBi gain corner reflector antenna	0,45 kg	Consult
Consult	Consult	5 dBi gain vehicle/cab mount whip antenna, includes 5,2 m coaxial cable	0,45 kg	Consult
137567	502046-0001	Non-terminated serial cable for communication port connection, 4 m longer lengths available by special order	0,45 kg	Consult
Consult	Consult	CellScale Virtual Monitor (CVM) application software (enables PC to emulate scale indicator)	Consult	Consult

Specifications

Enclosure:

NEMA Type 4, IP65 milled anodized aluminum with 0-ring gaskets
NEMA Type 6, IP67 with optional long range

Weight:

1,6 kg

Annunciators:

Three LED status lamps for power, data TX/RX and configuration

Power Input:

9-30 VDC (Internal 85-265 VAC, 47-440 Hz power supply optional)

Operating Temperature:

-20° C to 70° C

Radio Link:

FHSS at 2,4 GHz (up to 64 network selections)

Radio Link Effective Range:

Typically 150 m indoor, 300 m outdoor with standard antennas. (See optional antennas for longer range)

Standard Antenna:

1/2 wave 2 dBi, articulated

RFI/EMI Shielding:

Exceeds NIST HB44 and CE standards

ata I/0:

Approvals

One comm port with two connector interfaces for RS-232 and RS-422

Warranty:

One-year limited

Approvals:

NTEP CC 05-077

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Looking for products?

Please visit www.ricelake.com/global for current product pricing or call our European office at +31 (0) 26 472 1319 to talk to an industry expert about our product offerings and customized solutions.

iDimension® Plus Static Dimensioning System



The iDimension Plus static dimensioning system automatically measures parcels and irregular packages in less than 0.2 seconds. A small footprint allows for easy integration into current workstations or retail environments.

Standard Features

- Displays dimensions in less than 0.2 seconds
- Dimensions parcels at 0.2 in Legal for Trade accuracy
- Dimensions irregular shape packages, polybags and uneven shapes to 0.5 in Legal for Trade accuracy
- Dimensions flats, parcels, letters or items less than 1.2 in H with scale attached or flat detection trigger located on the base plate
- 7 in USB touch screen display provides results, operator controls for operator standard functions
- Automatic Operating and Manual modes
- Easy to assemble with limited operator training
- Captures overhead photo of every item, available in .bmp or .jpg format through XML API integration
- - Static IP or DHCP for use with standard web service API, TCP or HTTP interface or data extraction RS-232 or USB for use with UPS Worldship®, Cubiscan 110/150 emulation and simple command response format
- Peripherals: Optional powered USB Hub for use of more than one peripheral and UPS Worldship interface. Optional USB barcode scanner with keyboard wedge emulation will manually trigger dimensioning and add barcode text data into web service API. Optional parcel and shipping scales
- The iDimension Plus is not limited to the maximum and minimum Legal for Trade measurements-it is limited to the object fitting within the field of view of the overhead sensor. See Measuring Capabilities table for example.

Specifications

Physical Dimensions:

Length: 63.5 cm (25 in) Width: 56 cm (14.25 in) Height: 162 cm (63.8 in) Weight: 13 kg (28.5 lb)

Power Requirements:

Single power source 110-240 V external power supply, US power cord

Object Colors:

All opaque packaging

Measurement Time:

0.2 seconds, scale settling times vary by manufacturer

Operating Temperature:

0° C to 30° C (32° F to 86° F)

Humidity:

Non-condensing

Mechanical Environment Class:

Electromagnetic Class:

I/O Ports:

(1) USB type A port (interface to scale) (1) 10/100/100BASE-T Ethernet port (interface to PC)

Software Integration:

API and SDK files available for network device integration

Package Contents:

iDimension Plus, calibration object, USB display and US power cord

Warranty:

One-year limited warranty

Approvals:

NTEP

FCC



NTEP Certified Measurement Ranges - Cube

	Min (In)	Max (In)	Division (in)
Length	5.6	48	0.2
Width	5.6	28	0.2
Height	2.4	28	0.2

NTEP Certified Measurement Ranges - Irregular

	Min (In)	Max (In)	Division (in)
Length	6	48	0.5
Width	6	28	0.5
Height	6	28	0.5

Measuring Capabilities

Length	Width	Height		
54	35	2		
50	34	6		
46	32	10		
42	31	14		
38	28	18		
34	25	22		
28	21	28		

Note: Measurements shown include maximum a 4 in H scale installed

Part #	Description	Capacity	Dimen- sions	Est. Weight	Price
196452	iDimension Plus	_	-	44 lb	Consult
Options/	Accessories				
194625	BP-P postal scale with painted mild steel weight platter & RS-232/USB cable	0-7 lb x 0.05 oz/7-70 lb x 0.2 oz	12 x 14 in		Consult
184585	BP-S USB shipping scale with painted mild steel weight platter	150 x 0.05 lb (75 x 0.02 kg)	12 x 14 in	17 lb	Consult
182994	BP-S USB shipping scale with painted mild steel weight platter	150 x 0.05 lb (75 x 0.02 kg)	12 x 16 in	31 lb	Consult
182379	BP-S USB shipping scale with painted mild steel weight platter	150 x 0.05 lb (75 x 0.02 kg)	18 x 18 in	63 lb	Consult
182383	BP-S USB shipping scale with painted mild steel weight platter	300 x 0.1 lb (150 x 0.05 kg)	18 x 18 in	63 lb	Consult
182396	BP-S USB shipping scale with painted mild steel weight platter	300 x 0.1 lb (150 x 0.05 kg)	20 x 20 in	76 lb	Consult
182400	BP-S USB shipping scale with painted mild steel weight platter	300 x 0.1 lb (150 x 0.05 kg)	24 x 24 in	131 lb	Consult
180771	Kit, USB Hub for use with BenchPro scale and UPS WorldShip compatibility	-	-	-	Consult
180007	Kit, USB Hub for use with barcode scanner and scale	_	-	_	Consult
176307	QuickScan QD2131 barcode scanner with USB cable	_	-	4 lb	Consult
179081	Kit, Cable Assy. PC Interface, RS-232	_	-	_	Consult
179083	Kit, Cable Assy. PC Interface, USB	_	-	_	Consult



BenchPro with mild steel shroud

iDimension® Plus XL

Static Dimensioning System



The iDimension Plus XL is specifically designed for integrators to provide flexibility in the installation of a dimensioning solution anywhere over a conveyor, table or scale from a pole, ceiling mount or support beam. An optional stand is available for ease of integration over a static roller conveyor at 60.2 inches (NTEP approved) or 79 inches above the platform.

Standard Features

- Displays dimensions in 0.2 seconds
- Dimensions parcels at 0.2 in Legal for Trade accuracy
- Dimensions irregular shape packages, polybags and uneven shapes to 0.5 in Legal for Trade accuracy
- Dimensions flats, parcels, letters or items less than 2.4 in H when installed at 79 in above platform
- 7 in USB touch screen displays weight, dimensions and functions keys required for day-day use
- · Automatic Operating and Manual modes
- · Limited operator training required
- Captures overhead photo of every item, available in .bmp or .jpg format through XML API integration

Static IP or DHCP for use with standard web service API, TCP or HTTP interface or data extraction RS-232 or USB for use with UPS Worldship®, Cubiscan 110/150 emulation and simple command response format

- Peripherals: Optional powered USB Hub for use of more than one peripheral and UPS Worldship interface. Optional USB barcode scanner with keyboard wedge emulation will manually trigger dimensioning and add barcode text data into web service API. Optional BenchPro parcel and shipping scales are also available
- The iDimension Plus is not limited to the maximum and minimum Legal for Trade measurements-it is limited to the object fitting within the field of view of the overhead sensor. See Measuring Capabilities table for example.
- Mounting bracket with 110 240 V power supply mount and 25 foot US power cord provided

Mounting and Installation Considerations:

The sensor must be installed level, free from vibration and positioned centrally over the measuring platform 1.5 m (60.2 in) height to perform to certified measurement range. Alternate mounting height of 2.0 m (79 in) is configurable.

Specifications

Power Requirements:

Single power source 110-240 V external power supply, 25ft US power cord

Object Colors:

All opaque packaging

Measurement Time:

0.2 seconds, scale settling times vary by manufacturer

Operating Temperature: 0° C to 30° C (32° F to 86° F)

Humidity:

Non-condensing

Mechanical Environment Class:

Electromagnetic Class:

I/O Ports:

(3) USB type A port (scale, USB display, barcode scanner) (1) 10/100/100BASE-T Ethernet port (interface to PC)

Software Integration:

API and SDK files available for network device integration

Package Contents:

iDimension 100XL sensor, mounting bracket, USB display, calibration object, DC power supply with 25 ft power US cord, 118" Micro b USB display and USB-A extension cable

Warranty:

One-year limited warranty

Approvals:





NTEP Certified Measurement Ranges - Cube

	Min (In)	Max (In)	Division (in)
Length	5.6	48	0.2
Width	5.6	28	0.2
Height	2.4	28	0.2

NTEP Certified Measurement Ranges - Irregular

	Min (In)	Max (In)	Division (in)			
Length	6	48	0.5			
Width	6	28	0.5			
Height	6	28	0.5			

Measuring Capabilities @ 60.2 in high

Length	Width	Height
58	26	2
54	35	6
52	32	10
46	32	14
40	30	18
38	28	22
32	24	28
28	21	32

Measuring Capabilities @ 79 in high

Length	Width	Height
76	57	4
72	54	8
68	51	12
64	48	16
60	45	20
56	42	24
52	39	28
48	36	32
44	33	36
36	27	44
30	22	50

Part #	Description	Capacity	Dimensions	Est. Weight	Price
198587	iDimension Plus XL	_	-	-	Consult
Floor Sta	nd Options/Accessories				
174660	Single sensor iDimension XL floor mount stand with packaging, ships only LTL	_	_	_	Consult
185107	Single sensor iDimension XL floor mount stand, no packaging for on purchasing two or more systems	_	_	_	Consult
182195	Dual sensor iDimension XL floor mount stand, with packaging, ships only LTL	_	_	_	Consult
182265	iDimension stand packaging only	_	_	_	Consult
184262	iDimension XL USB display RAM mount kit for use with stand	_	_	_	Consult
iDimensi	on 100XL Plus Options/Accessories				
194625	BP-P postal scale with painted mild steel weight platter & RS-232/USB cable	0-7 lb x 0.05 oz/7-70 lb x 0.2 oz	12 x 14 in		Consult
184585	BP-S USB shipping scale with painted mild steel weight platter	150 x 0.05 lb (75 x 0.02 kg)	12 x 14 in	17 lb	Consult
182994	BP-S USB shipping scale with painted mild steel weight platter	150 x 0.05 lb (75 x 0.02 kg)	12 x 16 in	31 lb	Consult
182379	BP-S USB shipping scale with painted mild steel weight platter	150 x 0.05 lb (75 x 0.02 kg)	18 x 18 in	63 lb	Consult
182383	BP-S USB shipping scale with painted mild steel weight platter	300 x 0.1 lb (150 x 0.05 kg)	18 x 18 in	63 lb	Consult
182396	BP-S USB shipping scale with painted mild steel weight platter	300 x 0.1 lb (150 x 0.05 kg)	20 x 20 in	76 lb	Consult
182400	BP-S USB shipping scale with painted mild steel weight platter	300 x 0.1 lb (150 x 0.05 kg)	24 x 24 in	131 lb	Consult
176307	QuickScan QD2131 barcode scanner with USB cable	-	_	4 lb	Consult
198590	Cable assy USB, USB 2.0 Type A male to type A female 3 meters	_	_	-	Consult
180771	Kit, USB Hub for use with BenchPro scale and UPS WorldShip compatibility	-	_	-	Consult
180007	Kit, USB Hub for use with barcode scanner and scale	_	_	-	Consult
179081	Kit, Cable Assy. PC Interface, RS-232	-	_	-	Consult
179083	Kit, Cable Assy. PC Interface, USB	_	_	-	Consult

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BS143

Medium to Heavy Capacity Belt Scale



Standard Features

- Custom-made weighframe for application
- Inner frame is free-floating platform
- · Weighframe fits standard conveyor system
- · Multiple idler

Options Available

• Models available for ATEX, categories II2D and II3D (zone 21 and 22)

Applications

• Medium to heavy capacity belt scales

Part Number/Price

Part #	Description	Price
Consult	BS143 belt scale	Consult

Specifications

Conveyor Width:

500 - 3.000 mm

Capacity:

20-20.000 t/h

Belt Speed:

0,1-7 m/s

Inclination:

Max 25 degrees

Integrator:

WE403D, WE404D, WE503D, 920BCi, 882

Accuracy Guidelines:

MID approval, Class 0,5 / 1 / 2

System Accuracy:

Application specific from \pm 0,5%

Material:

Powder coated steel / galvanised steel / stainless steel

Junction Box:

JBL

Speed Pickups: Application will determine:

SPU5020, SPU5826, SPU012P, SPU2160N, SPU2160EN

Warranty:

Conveyor Width:

500 to 2.000 mm

Capacity:

1-3.000 t/h

Belt Speed:

0,1-2,5 m/s

Inclination:

Max 25 degrees

Integrator:

WE403D, WE404D, WE503D, 920BCi, 882

Accuracy Guidelines:

MID approval, Class 1 / 2

System Accuracy:

Application specific from \pm 0,5%-1%

Material:

Powder coated steel, galvanized steel, stainless steel

Junction Box:

.IRW

Speed Pickups:

Application will determine:

SPU5020, SPU5826, SPU012P, SPU2160N, SPU2160EN

Warranty:

One-year limited warranty



Standard Features

- Friction-free pivots
- One load cell carrier beam
- · Fits standard conveyor
- · Custom made

Options Available

• Models available for ATEX, categories II2D and II3D (zone 21 and 22)

Applications

· Medium to heavy capacity belt scales

Part #	Description	Price
Consult	BS211 belt scale	Consult

BS221DB

Medium to Heavy Capacity Belt Scale



Standard Features

- · Weighframe is mounted on outside of conveyor
- · Minimum modifications to conveyor are required
- · Service friendly
- Friction-free pivot supports
- Two support beams
- Fits standard conveyors mounts with four bolts

Options Available

• Models available for ATEX, categories II2D and II3D (zone 21 and 22)

Applications

• Medium to heavy capacity belt scales

Part Number/Price

Part #	Description	Price
Consult	BS221DB belt scale	Consult

Specifications

Conveyor Width:

500 - 3.000 mm

Capacity:

1-2.000 t/h

Belt Speed:

0,1-2,5 m/s

Inclination:

Max 25 degrees

Integrator:

WE403D, WE404D, WE503D, 920BCi, 882

Accuracy Guidelines:

MID approval, Class 1 / 2

System Accuracy:

Application specific from \pm 1%

Material:

Powder coated steel, galvanized steel, stainless steel

Junction Box:

JBW, IP66

Speed Pickups:

Application will determine:

SPU5020, SPU5826, SPU012P, SPU2160N, SPU2160EN

Warranty:

Conveyor Width:

500-1.200 mm

Capacity:

1-1.500 t/h

Belt Speed:

0,1-1,5 m/s

Inclination:

Max 10 degrees

Integrator:

WE403D, WE404D, WE503D, 920BCi, 882

Accuracy Guidelines:

MID approval, Class 1 / 2

System Accuracy:

Application specific from \pm 1%

Material:

Powder coated steel, galvanized steel, stainless steel

Junction Box:

JBW

Speed Pickups:

Application will determine:

SPU5020, SPU5826, SPU012P, SPU2160N, SPU2160EN

Warranty:

One-year limited warranty



Standard Features

- Minimum modifications to conveyor are required
- · Weighframe without moving parts
- Fits standard conveyors mounts with four bolts

Applications

• Medium to heavy capacity belt scales

Options Available

• Models available for ATEX, categories II2D and II3D (zone 21 and 22)

Part #	Description	Price
Consult	BS311 belt scale	Consult

BS421 Light Capacity Belt Scale



Standard Features

- Plane roller supported on both sides by load cell construction
- Open design facilitates easy cleaning

Options Available

• Models available for ATEX, categories II2D and II3D (zone 21 and 22)

Applications

· Light capacity belt scales

Part Number/Price

Part #	Description	Price
Consult	BS421 belt scale	Consult

Specifications

Conveyor Width:

300 to 1.600 mm

Capacity:

0,1-60 t/h

Belt Speed:

Max 1,0 m/s

Inclination:

0 degrees

Integrator:

WE403D, WE404D, WE503D, 920BCi, 882

Accuracy Guidelines:

MID approval, Class 1 / 2

System Accuracy:

Application specific from ± 1%

Material:

Stainless steel 304

Junction Box:

JBW

Speed Pickups:

Application will determine:

SPU5020, SPU5826, SPU012P, SPU2160N, SPU2160EN

Warranty:

Conveyor Width:

500 to 800 mm

Capacity:

1-100 t/h

Belt Speed:

0,1-1,5 m/s

Inclination:

Max 15 degrees

Integrator:

WE403D, WE404D, WE503D, 920BCi, 882

System Accuracy:

Application specific from ± 1%

Material:

Powder coated steel

Junction Box:

IRW

Speed Pickups:

Application will determine:

SPU5020, SPU5826, SPU012P, SPU2160N, SPU2160EN

Warranty:

One-year limited warranty



Standard Features

- Outer frame with friction-free pivots
- Fits standard conveyor

Applications

· Light to medium capacity belt scales

Options Available

• Models available for ATEX, categories II2D and II3D (zone 21 and 22)

Part #	Description	Price
Consult	BS611 belt scale	Consult

BS611HD

Medium Capacity Belt Scale



Standard Features

- Outer frame with friction-free pivots
- · Fits standard conveyor

Applications

· Medium capacity belt scales

Options Available

• Models available for ATEX, categories II2D and II3D (zone 21 and 22)

Part Number/Price

Part #	Description	Price
Consult	BS611HD belt scale	Consult

Specifications

Conveyor Width:

650 to 1.200 mm

Capacity:

1-200 t/h

Belt Speed:

0,1-1,5 m/s

Inclination:

Max 15 degrees

Integrator:

WE403D, WE404D, WE503D, 920BCi, 882

System Accuracy:

Application specific from ± 1%

Material:

Powder coated steel

Junction Box:

JBW

Speed Pickups: Application will determine:

SPU5020, SPU5826, SPU012P, SPU2160N, SPU2160EN

Warranty:



Mechanical Characteristics:

Enclosure: aluminum, IP65

Cable input/output: 1 x NPT 13 mm

Connection: terminal block 3 x 1,5 mm²

Minimum Speed:

20 revolutions per minute (16,6 Hz)

Maximum Speed:

1.500 revolutions per minute (1.250 Hz)

Generated Signal:

50 pulses per revolution

Operating Temperature:

-25°C to 65°C

Shaft:

Stainless steel

Warranty:

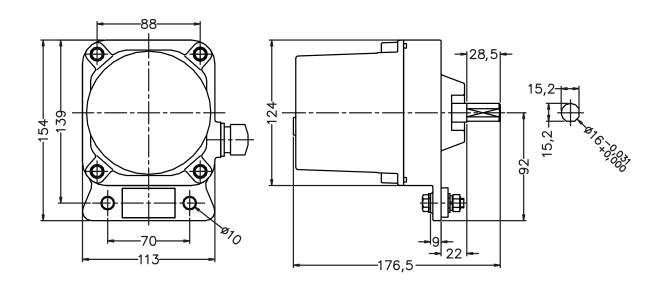
One-year limited warranty



Standard Features

- Rigid speed sensing device for dynamic weighing
- · Features direct coupling to the conveyor tail pulley
- . No wheels ride on the belt

Part #	Description	Est. Weight	Price
157689	SPU2160N-0050, 50 ppr (generator style)	2,2 kg	Consult
157690	SPU2160EN-0600, 600 ppr (encoder style)	2.2 kg	Consult







Standard Features

- · Reliable mounting in wide variety of installation situations
- Standard encoder for use worldwide
- Sturdy (Safety-lock[™]) design bearing structure
- · Resistant die-cast housing

Part Number/Price

Part #	Description	Est. Weight	Price
157682	Speed pickup, SPU5020-0100; 100ppr	0,4 kg	Consult
157683	Speed pickup, SPU5020-0500; 500ppr	0,4 kg	Consult
157684	Speed pickup, SPU5020-0100C; 100ppr anti-corrosion protection	0,4 kg	Consult
157685	Speed pickup, SPU5020-0100-M12; 100ppr M12 connector	0,4 kg	Consult
160155	Speed pickup, SPU5020-0100-ATEX; 100 ppr ATEX approval	0,4 kg	Consult

Specifications

Material Characteristics:

IP67

Rotor Moment of Inertia:

Shaft version: approx. 1,8 x 10-6 kgm² Hollow shaft version: approx. 6 x 10-6 kgm² Radial load capacity shaft: 80N Axial load capacity shaft: 40N

CE Requirements:

EN61000-6-4, EN61000-6-4, and EN61000-6-3

Operating Temperature:

-40° C to 85° C

Connection:

M23 or M12 connector

Electrical Characteristics:

Output circuit: TTL compatible Supply voltage: push-pull 10 50 30VDC (or 7272 -5 to 30VDC)

Power consumption: push-pull 50 mA to 100 mA Permissible load/channel: ±20 MA to 300 kHz Signal level high: push-pull min UB-1V (7272-UB-2.0V)

Rise time/fall time : push-pull max 1 µs

Dimensions:

OD 50,8 mm, installation depth max 47 mm

Shaft:

N/A

Warranty:



Mechanical Characteristics:

Speed without sealing: max 12.000 min (continuous operation max 1.500 min)

Speed with sealing: max 6.000 min (continuous max 1.500 min)

Rotor moment of inertia: approximately 6 x 10-6k cm^2

Starting torque without sealing: < 0,01 Nm Starting torque with sealing: <0,05 Nm Protection: EN60529 without sealing IP40; EN60529 with sealing IP68

Material Characteristics:

IP67

Shock Resistant:

2.000 m/s², 6 ms

Vibration Resistant:

100 m/s2, 10 ... 2.000 Hz

Electrical Characteristics:

Output circuit: TTL-compatible

Supply voltage: push-pull 10 to 30VDC or 5 to 30 FDC

Power consumption (no load); push-pull type 55 mA,

max 125 mA (without inverted signals)

Permissible load/channel: push-pull - \pm 30 mA

Pulse frequency: 300 kHz max Signal level high: push-pull U₈-3V Signal level low: push-pull 2,5V or 1,5V

Rise/Fall time: push-pull 1 μs

Dimensions:

58 x 40,4 mm

Protection:

IP66

Operating Temperature:

Without sealing: -20° C to 90° C Sealed: -20° C to 85° C

Shaft:

N/A



Standard Features

- · Stainless steel speed sensor
- · Direct coupling to conveyor tail pulley
- Low-profile 42 mm package design

Part Number/Price

Part #	Description	Est. Weight	Price
157686	Speed pickup, SPU5826-0100; 100 ppr	0,4 kg	Consult
157687	Speed pickup, SPU5826-1000; 1000 ppr	0,4 kg	Consult

Through-shaft design





Material Characteristics:

Galvanized steel

Sensor:

M12 proximity 10 pulses per turn

Shaft:

Stainless steel

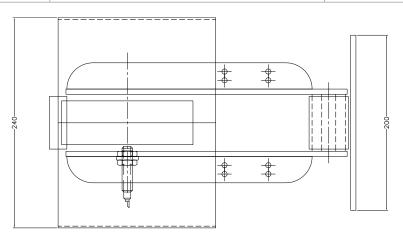
Warranty:

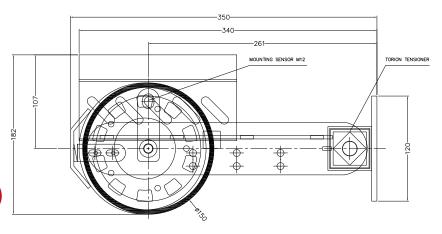
One-year limited warranty

Standard Features

- Run wheel type
- · Replacement part

Part #	Description	Price
157692	Speed pickup, SPU012P-W010 run wheel, proximity sensor, powder coated steel	Consult
160030	Speed pickup, SPU012P-W010G, run wheel, proximity sensor, steel galvanized	Consult
157693	Speed pickup, SPU012P sensor, proximity sensor, M12 with M12 cable set	Consult
157694	Speed pickup, SPU018P sensor, proximity sensor, M18 with 1 m cable	Consult





Master Bulkslide Solids Flow Meter

Specifications

System Dimensions:

Height from 320 up to 1.250 mm

Construction:

Carbon Steel or Stainless Steel anti wear by Hardox, Ceramic, etc.

Capacity:

from 0,5 up to 600 m3/hr

Speed:

-40 to +75°C, optional up to +160°C

Approvals:

Ex, ATEX

System Accuracy:

from \pm 0,5%

Warranty:

One-year limited warranty



Standard Features

- Pre-calibrated
- Accuracy from ±0,5%
- · Independent from density
- Custom made with 4-20mA or fieldbus communication option

Part #	Description	Price
Consult	BulkSlide solids flow meter	Consult

IFM30

Impact Flow Meter System



Specifications

Material:

Mild steel Flange and membrane: rubber

Load Cell:

Aluminum, optional stainless steel or ATEX versions

Power Supply:

5-15VDC (stabilized from electronics)

Signal:

2 mV/V at 100% load

Junction Box:

ABS plastic model JBS

Dimensions:

Plate and housing: 300 x 300 mm

Warranty:

One-year limited warranty

Standard Features

- No moving parts
- Sensing element is mounted in sensor housing
- · Easy access door
- One basic sensor design works all measuring ranges
- Mild steel (also available in SS304, SS316 or food grade)
- Optional ATEX approved for II2D and II3D (zone 21 and 22)
- Complete system is made up of IFM30 sensor, IFP30 sensing plate, IFH30 housing and flow meter integrator (model WE302D)

Applications

· Continuous mass flow measurement in bulk solids conveying systems

Part Number/Price

Part #	Description	Est. Weight	Price
Consult	Impact sensor IFM30-MD3, 60 m3/hr.	30 kg	Consult
Consult	Impact plate IFP30-MD	10 kg	Consult
Consult	Impact plate housing IFH30-MD	40 kg	Consult

Options/Accessories

Part #	Description	Price
Consult	Custom sensing plate sizes	Consult
Consult	ATEX approved II2D and II3D (Zone 21 and 22)	Consult

Loss-In-Weight Flow Feeder



With Loss-In-Weight, the weight reduction per time interval is measured and integrated to a flow. A regulation can then be added to create a closed regulation loop by dosing. Product could be conveyed by a screw conveyor, vibrating conveyor, belt conveyor or others. The scale by itself, or the complete system with dosing conveyor can be purchased.

Depending on the material's behavior, an agitation may have to be added. This could be a flexible wall, an agitation screw, pneumatically moving plates or air pads. Our expertise and customer support ensure the correct system is chosen to fit your application.

Standard Features

- Agitation of the flexible hopper with paddles
- Equipped with two motors for independent motion of the agitation
- Screws are easily replaceable for running different capacities or products
- Flexible hopper easily replaceable for cleaning or product change
- Self-supporting, fully welded frame, so an extension hopper can be mounted
- Execution in mild steel or in SS304

Applications

· Continuous flow measurement and control

Part #	Description	Price
Consult	Model FW42 up to maximum 150 ltr/hr	Consult
Consult	Model FW62 up to maximum 1.300 ltr/hr	Consult
Consult	Model FW82 up to maximum 32.000 ltr/hr	Consult



Refer to Controller/Indicators for indicators on page 125 Refer to Speed Pick ups starting on page 93

WS911 Screw Weigher



Standard Features

- Creates an in-line measurement without disturbing the product flow
- Inlet and outlet are mechanically isolated with flexible connection
- · Dust closed design, dust-free

Options

ATEX approval

Part Number/Price

Part #	Description	Price
Consult	Weighframe WS911 - add controller and speed pickup	Consult

Specifications

Weighframe:

Powder coated steel frame, stainless steel available Fixed frame with frictionless pivots and load cell

Screw conveyor mounted in load cell carrier and the pivots

Mounting:

Six bolts

Load Cell:

Stainless steel, IP67

Accuracy Guidelines:

Consult

Junction Box:

JBW shockproof reinforced polycarbonate, IP66 Four or six wire load cell cable

Speed Pick-up: Model SPU5020 or 5826 Mounted directly on axle end

Indicator:

WE302D, WE303D, WE304D, OR WE404D

Warranty:

Weigh Belt Feeders

Specifications

Belt Scale:

Integrated model: BS421, BS211DB, BS311, BS143

Integrator:

WE403D, WE404D, WE503D, 920BCi, 882

Accuracy Guidelines:

MID approval, Class 1 / 2

System Accuracy:

Application specific from \pm 1%

Material:

Powder coated steel, galvanized steel, stainless steel

Junction Box:

JBW

Electronics:

WE302D, WE303D, WE403D or WE404D

Waranty:

One-year limited warranty



Standard Features

- Standard range in different dimensions
- Customized execution on request
- · Customized for application requirements

Applications

- Food grade units available to meet HACCP requirements
- Low load applications with metering tubes

Part #	Description	Price
Consult	Weigh belt feeder	Consult

882D Belt Scale Integrator



Standard Features

- LCD display, seven-digit, seven-segment weight display, 3 x 20 pixelated prompt area
- RS-232 or RS-485 serial port
- USB device port connects directly to a PC
- Ethernet TCP/IP polled or continuous
- · AC or DC models
- Hardware slot for two option cards
- Operator functions through menu key for audit trail, preset tare, accumulator, time & date and setpoints
- Audit trail tracking for configuration and calibration changes. Password protection for user and configuration changes
- · Setpoints for control and alarms
- Four onboard digital I/O channels
- Four programmable ticket formats up to 1,000 characters
- · Filter settings for light, medium and heavy noise
- · Speed inputs

Part Number/Price

Part #	Description	Price
Integrators		
177708	120 VAC	Consult
180847	220 VAC Euro power cord	Consult
184683	9-36VDC	Consult

Options/Accessories

Part #	Description	Price
164684	1280 option, digital I/O	Consult
165366	1280 option, single analog out	Consult
179157	Relay board, four dry contact outputs	Consult
164689	1280 option, relay interface	Consult
Network Ca	ırds	
165792	1280 option, Ethernet/IP	Consult
165793	1280 option, DeviceNet	Consult
165794	1280 option, ProfiNet	Consult
165795	1280 option, Profibus	Consult
165796	1280 option, Modbus TCP	Consult
179533	1280 option, EtherCAT	Consult

Specifications

Power

Input voltages: 100-240 VAC; 9-36 VDC Input frequency: 47-63 Hz

Power Consumption:

AC: 15 watts; DC: 20 watts

Excitation Voltage:

10 VDC 8 x 350 Ω (16 x 700 Ω) load cells

Analog Signal Input Range:

-45 mV to 45 mV

Analog Signal Sensitivity:

 $0.3\,\mu\text{V/graduation}$ minimum at 7.5 Hz; 1.0 $\mu\text{V/graduation}$ typical at 120 Hz

Sample Rate:

7.5 to 120 Hz, software selectable

Resolution:

Internal: 8 million counts 23 bit weight display:

System Linearity:

± 0.01% full scale

Digital I/0:

Four I/O onboard primary keys, pseudo functions, batching functions

Circuit Protection:

18 KV, 10 V/meter

Communication Ports:

RS-232 full duplex or RS-485 half duplex; USB micro A/B connector 2.0; Ethernet TCP/IP $\,$

Pulse Input:

Dual inputs for redundancy

Display

Approvals

LCD display, seven-digit, seven-segment weight display, 3 x 20 pixelated prompt area

Status Annunciators:

Load, total, rate, speed, zero

Keyboard:

Flat membrane panel, tactile feel

Operating Temperature:

Industrial: -10° C to 50° C

Dimensions (W x H x D):

Universal: 250,7 x 238 x 110mm

Weight:

Universal: 5.4 kg

Rating:

IP66

Material:

Universal: stainless steel

Warranty:

Two-year limited warranty

Approvals:

CE Marked

UL/c-UL Listed

Options

Analog Output:

16-bit resolution, 0-10 VDC, 0-20 mA, 4-20 mA

Relay Board:

Four dry contact relays; DC Max: 30 VDC at 3 amps AC max: 250 VAC at 3 amps per contact

EtherNet/IP Interface:

According to EN 50325-2

Profinet Interface:

According to IEC 61784 (CPF-3/3)

Modbus/TCP Interface:

Up to 8 bytes of I/O data, 100 Mbps full duplex Ethernet

DeviceNet Interface:

According to EN 50325-2

Profibus DP Interface:

According to EN 50170

EtherCAT

According to IEEE 802.3

Digital I/O

24 channel I/O expansion boards available

920i® Belt Scale Integrator

Specifications

Line Voltages: 115 or 230 VAC,

Frequency: 50 or 60 Hz

Power Consumption:

340 mA, maximum at 115 VAC (26 W)

240 mA at 230 VAC (26 W)

Excitation Voltage:

 $10 \pm VDC$, $16 \times 350 \Omega$ or $32 \times 700 \Omega$ load cells per

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 typical at 120 Hz 4.0 µV/graduation typical at 960 Hz

A/D sample rate:

7.5 to 960 Hz, software selectable

Resolution:

Internal Resolution: Eight million counts

Weight Display Resolution:

9,999,999

System Linearity:

± 0.01% full scale

Digital I/O:

Six I/O channels on CPU board; optional 24-channel I/O expansion boards available

Circuit Protection:

RFI, EMI, ESD protection

Serial Ports:

Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available

Port 1: Full duplex RS-232 Port 2: RS-232 with CTS/RTS PS/2 keyboard interface via DB-9 connector Port 3: Full duplex RS-232, 20 mA output Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

Display:

(W x H) 116 x 86 mm 320 x 240 pixel VGA liquid crystal display (LCD) module with adjustable contrast

Kevboard:

27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

Operating Temperature:

-10° C to 40° C

Industrial:

-10° C to 50° C

Dimensions:

Universal: (W x H x D) 266 x 215 x 114 mm Deep Universal: (W x H x D) 273 x 273 x 137 mm

Panel Mount Enclosure: 3.9 kg Deep Universal: 5.0 kg

Rating/Material:

NEMA Type 4X/IP66, stainless steel

Warranty:

Two-year limited warranty on integrator and load cells

Approvals:

CE Marked

UL and C-UL listed (universal, deep and wall mount enclosure)

Custom wall mount approved for 508A (optional) Panel mount UL recognized



Standard Features

- Large (W x H) 116 x 86mm 320 x 240 pixel backlit LCD graphical display
- NEMA Type 4X/IP66 stainless steel display enclosure
- · Four bidirectional communication ports
- Rate and speed time displayed by the hour, minute or second
- · Measurement displayed in feet or meters
- · Unit of rate displayed in tons, pounds, kilograms, metric tons or long tons
- Digital I/O for totalizer
- · Optional analog and alarm outputs
- · For added security, integrator has the ability to be password protected
- Optional communication protocol cards include ControlNet, Rockwell Automation's DeviceNet, Rockwell Automation's Remote I/O, Rockwell Automation's EtherNet IP, Profibus DP, 0-10 VAC or 4-20 mA analog output, Ethernet TCP/IP,
- Standard communication RS-232, RS-485, 20 mA current loop
- Built-in support for ticket printing

Part Number/Price

Part #	Description	Price
Integrators	:	
95214	Belt scale integrator 115VAC, deep enclosure	Consult
95215	Belt scale integrator 230 VAC, deep enclosure	Consult
170693	Belt scale integrator, panel mount	Consult
170694	Belt scale integrator, wall mount	Consult
107615	Belt scale integrator with UPS 115VAC	Consult
107616	Belt scale integrator with UPS 230 VAC	Consult
120551	Belt scale integrator with deep enclosure, two slot expansion, EtherNet IP for A-B, 230V	Consult
150811	Belt scale integrator with deep enclosure, two slot expansion, analog output	Consult
69782	Two-slot expansion board (wall mount)	Consult
71743	Two-slot expansion board (panel mount & deep universal)	Consult
98057	Ethernet TCP/IP, wireless LAN card 802.11 B/G	Consult
87803	Ethernet IP (specifically for A-B PLC)	Consult
67602	Analog output: selectable 0-10V, 0-20 mA	Consult

See Indicators for additional 920i options

APPROVALS





Master WE503

Multi-Functional Weighing and Filling Programs



Standard Features/Applications

• Industrial design with modular hardware ideal choice for:

Belt scales

Weigh belt feeders

Screw weigh systems

Bulkslide flowmeters

Impact flowmeters

Loss-in-Weight feeders

Shipping and receiving

Filling of liquid and solid material

Checkweighers

Dynamic weighing and batching systems

Vehicle weighing

Mobile data capture systems

Part Number/Price

Part #	Description	Price
Wall Mount,	Table Top and Panel Mount	
185147	WE503	Consult

Options/Accessories

Part #	Description	Price
185254	Analog output 0/4-20 mA, 0-10 VDC	Consult
Consult	Analog input	Consult
Consult	Profibus	Consult
Consult	Profinet	Consult
Consult	Ethernet/IP	Consult
Consult	EtherCAT	Consult
Consult	CANOpen CANOpen	Consult
Consult	DeviceNET	Consult
Consult	Modbus TCP	Consult
193815	Expansion board (required for analog output option)	Consult

Specifications

110 to 240 VAC and 12/24 VDC

Excitation Voltage:

5VDC, 16 analog 350 0hm load cells

Analog Signal Input Range:

10 mV

Analog Signal Sensitivity:

 $0.3 \, \mu V/e$

Resolution:

 $3.000.000\,d$

Measurement Rate:

Up to 3200 updates/second

Circuit Protection:

EN 45501 and EN 61000-6-2

Load Cell Connection: Four or six wires

Internal Data Archive:

Alibi memory

Display:

Graphic LCD display

Keyboard:

Programmable function keys

Digital I/O:

2 inputs and 4 outputs

Approvals

Interfaces:

2 x RS232, 1 x RS232/RS485,

Optional:

Fieldbus, Ethernet, Bluetooth®, Analog Input, Analog Output Additional digital IO, 6 inputs and 12 outputs USB stick for data storage 5.000.000

Material:

Stainless steel

Rating:

Dimensions:

243 x 265 x 145 mm

Operating Temperature:

-10° C to 40° C

Warranty:

One-year limited warranty

Approvals:

OIML R76 / MID R51, 10000e or multirange 3 x 3.000e (**) Single, multi-range or multi-interval

Floor Scales

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High Performance Low-Profile Floor Scale	
RL-MEF	107
Low-Profile Steel Floor Scale	
RL-SEF	109
Low-Profile Stainless Steel Floor Scale	

For customized floor scales that fit your specific application, call our European office at +31 (0) 26 472 1319 to talk to an industry expert.

RoughDeck CS

The RoughDeck CS coil scale is reinforced with a wider capacity range and heavier construction for the demanding process of weighing dense coils of steel.

Roughdeck HP-H

For heavy-duty, industrial settings, the RoughDeck HP-H is available in 10 to 15 ton capacities and delivers reliable performance for the most demanding applications.

RoughDeck BDP

Available in both stainless and mild steel construction, the RoughDeck BDP easily accommodates a range of applications. The low-profile design allows ramps to sit flush with the ground for smooth loading of barrels, drums and pallets. Siderails allow the scale to weigh pallets or other large items that may exceed the platform dimensions.

RoughDeck QC-X

The base of the RoughDeck QC-X is composed of solid, stainless steel, vertical plates—providing superior protection against bacteria and mold growth. The rugged design incorporates 304 stainless steel construction and four welded-seal load cells with PTFE cable for steam cleaning and washdown areas. The RoughDeck QC-X is designed to create ideal cleaning conditions for strict sanitation requirements.

RoughDeck QC

For food, chemical and other demanding washdown applications, the RoughDeck QC is the weighing solution for efficiency and safety in hostile environments. The exclusive gas-shock design offers easy operator lifting and closing.

AutoLift HE

With its own pneumatic lifting arm, the low-profile AutoLift HE floor scale takes efficiency and safety further by providing hands-free access for washdown demands. The remote, stainless steel NEMA 4X junction box can be remotely mounted up to three meters from the scale, keeping sensitive electronics far from damaging chemicals and moisture.

RoughDeck® HP High Performance Low-Profile Floor Scale



Specifications

Warranty:

RoughDeck HP weldment five-year limited, load cells two-year limited, all other components one-year limited warranty

Standard Features

- · Heavy duty industrial design
- · Structural steel channel frame
- Four RL35N nickel-plated, IP66, OIML C3 shear beam load cells
- 6 m SURVIVOR® EL147HE hostile environment load cell cable to connect junction box to indicator
- Top-access junction box
- Rugged diamond safety treadplate deck
- Four adjustable stainless steel leveling feet
- Threaded eyebolt holes for easy lifting





Approvals

FOIML

Additional models are available with the approvals shown here Please consult the factory for part numbers.

Part Number/Price

Part #	Size (W x L x H)	Capacity x Readability	Price
With Quick C	onnector		
162706	1.500 x 1.500 x 108 mm	1.500 kg x 500 g	Consult
162707	1.500 x 1.500 x 108 mm	3.000 kg x 1.000 g	Consult
162708	1.500 x 1.500 x 108 mm	6.000 kg x 2.000 g	Consult
162709	1.500 x 1.250 x 108 mm	1.500 kg x 500 g	Consult
162710	1.500 x 1.250 x 108 mm	3.000 kg x 1.000 g	Consult
162711	1.500 x 1.250 x 108 mm	6.000 kg x 2.000 g	Consult
162712	1.250 x 1.250 x 108 mm	1.500 kg x 500 g	Consult
162713	1.250 x 1.250 x 108 mm	3.000 kg x 1.000 g	Consult
162714	1.250 x 1.250 x 108 mm	6.000 kg x 2.000 g	Consult

Options/Accessories

Part #	Description	Price
19352	RoughDeck floor stand for indicator, 920 mm high, mild steel	Consult
126384	RoughDeck floor stand for indicator, 1.220 mm high, mild steel	Consult
N/A	Installation, testing, configuration and verification	Consult factory



Warranty:

Two-year limited warranty



Standard Features

- IP68 stainless steel shear beam, OIML C3, load cells
- · Heavy duty industrial design with powder coat finish on lower frame
- · Removable galvanized steel deck
- 5 m load cell cable to connect scale to indicator
- Top-access IP67 junction box
- Four adjustable stainless steel leveling feet

Approvals







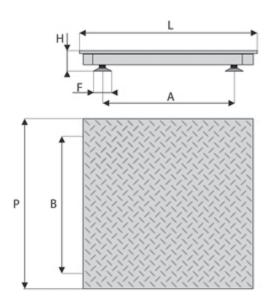


Part #	Size (W x L x H)	Capacity x Readability	Price
185956	1.000 x 1.000 x 90 mm	300 kg x 100 g	Consult
185957	1.000 x 1.000 x 90 mm	600 kg x 200 g	Consult
185958	1.000 x 1.000 x 90 mm	1.500 kg x 500 g	Consult
185959	1.000 x 1.250 x 90 mm	300 kg x 100 g	Consult
185960	1.000 x 1.250 x 90 mm	600 kg x 200 g	Consult
185961	1.000 x 1.250 x 90 mm	1.500 kg x 500 g	Consult
185962	1.250 x 1.250 x 90 mm	300 kg x 100 g	Consult
185963	1.250 x 1.250 x 90 mm	600 kg x 200 g	Consult
185964	1.250 x 1.250 x 90 mm	1.500 kg x 500 g	Consult
185965	1.250 x 1.250 x 90 mm	3.000 kg x 1.000 g	Consult
185966	1.250 x 1.500 x 115 mm	600 kg x 200 g	Consult
185967	1.250 x 1.500 x 115 mm	1.500 kg x 500 g	Consult
185968	1.250 x 1.500 x 115 mm	3.000 kg x 1.000 g	Consult
185969	1.250 x 1.500 x 115 mm	600 kg x 200 g	Consult
185971	1.250 x 1.500 x 115 mm	1.500 kg x 500 g	Consult
185972	1.250 x 1.500 x 115 mm	3.000 kg x 1.000 g	Consult
185973	1.500 x 2.000 x 130 mm	600 kg x 200 g	Consult
185974	1.500 x 2.000 x 130 mm	1.500 kg x 500 g	Consult
185975	1.500 x 2.000 x 130 mm	3.000 kg x 1.000 g	Consult
185976	1.500 x 2.000 x 150 mm	6.000 kg x 2.000 g	Consult
185977	1.500 x 2.500 x 180 mm	3.000 kg x 1.000 g	Consult
185978	1.500 x 2.500 x 180 mm	6.000 kg x 2.000 g	Consult
185979	1.500 x 2.500 x 180mm	10.000 kg x 5.000 g	Consult
185980	2.000 x 2.500 x 180 mm	3.000 kg x 1.000 g	Consult
185981	2.000 x 2.500 x 180 mm	6.000 kg x 2.000 g	Consult
185982	2.000 x 2.500 x 180 mm	10.000 kg x 5.000 g	Consult

RL-MEFLow-Profile Steel Floor Scale

Options/Accessories

Part #	Description	Price
188204	Stainless steel column 450 x 450 mm, h=971 mm Ø 38 mm (designed to work with RLT-100, RLT-200, RLT-300 and RLT-400 indicators)	Consult
188205	Stainless steel column 450 x 450 mm, h=971 mm Ø 38 mm. Painted steel base (designed to work with RLT-100, RLT-200, RLT-300 and RLT-400 indicators)	Consult
188206	Stainless steel column 350 x 350 mm, h=750 mm. Painted steel base (designed to work with RLT-100, RLT-200, RLT-300 and RLT-400 indicators)	Consult
188250	Painted steel ramp, 1.000 x 9.000 x 90 mm for PN 185956, PN 185957, PN 185958, PN 185959, PN 185960 and PN 185961	Consult
188251	Painted steel ramp, 1.250 x 900 x 90 mm for PN 185962, PN 185963, PN 185964 and PN 185965	Consult
188252	Painted steel ramp, 1.250 x 1.100 x 115 mm for PN 185966, PN 185967 and PN 185968	Consult
188253	Painted steel ramp, 1.500 x 1.100 x 1.15 mm for PN 185969, PN 185971 and PN 185972	Consult
188242	Kit of four stainless steel plates for fixing on the floor	Consult
N/A	Installation, testing, configuration and verification.	Consult factory



Dimensions	L	Р	Н	Α	В	F
185956						
185957	1.000	1.000	90	850	850	60
185958						
185959						
185960	1.000	1.250	90	850	1.100	60
185961						
185962						
185963	1.250	1.250	90	1.070	1.070	60
185964	1.230	1.230	30	1.070	1.070	00
185965						
185966						
185967	1.250	1.500	115	1.070	1.320	60
185968						
185969						
185971	1.500	1.500	115	1.320	1.320	60
185972						
185973						
185974	1.500	2.000	130	1.300	1.800	60
185975						
185976	1.500	2.000	150	1.300	1.800	60
185977						
185978	1.500	2.500	180	1.280	2.280	60
185979						
185980						
185981	2.000	2.500	180	1.780	2.280	60
185982						

Specifications

Warranty:

Two-year limited warranty



Standard Features

- IP68 stainless steel shear beam, OIML C3, load cells
- Heavy duty industrial design
- Removable stainless steel deck except on PN 185989, PN 185990 and PN 185991
- 5 m load cell cable to connect scale to indicator
- Four adjustable stainless steel leveling feet

Approvals









185989 185990	800 x 800 x 90 mm	300 kg x 100 g	
		JUUKY X TUUY	Consult
40004	800 x 800 x 90 mm	600 kg x 200 g	Consult
185991	800 x 800 x 90 mm	1.500 kg x 500 g	Consult
185992	1.000 x 1.000 x 90 mm	300 kg x 100 g	Consult
185993	1.000 x 1.000 x 90 mm	600 kg x 200 g	Consult
185994	1.000 x 1.000 x 90 mm	1.500 kg x 500 g	Consult
185995	1.000 x 1.250 x 90 mm	300 kg x 100 g	Consult
185996	1.000 x 1.250 x 90 mm	600 kg x 200 g	Consult
185998	1.000 x 1.250 x 90 mm	1.500 kg x 500 g	Consult
185999	1.250 x 1.250 x 90 mm	300 kg x 100 g	Consult
186000	1.250 x 1.250 x 90 mm	600 kg x 200 g	Consult
186001	1.250 x 1.250 x 90 mm	1.500 kg x 500 g	Consult
186002	1.250 x 1.250 x 90 mm	3.000 kg x 1.000 g	Consult
186003	1.250 x 1.500 x 115 mm	600 kg x 200 g	Consult
186004	1.250 x 1.500 x 115 mm	1.500 kg x 500 g	Consult
186005	1.250 x 1.500 x 115 mm	3.000 kg x 1.000 g	Consult
186006	1.500 x 1.500 x 115 mm	600 kg x 200 g	Consult
186007	1.500 x 1.500 x 115 mm	1.500 kg x 500 g	Consult
186008	1.500 x 1.500 x 115 mm	3.000 kg x 1.000 g	Consult
186009	1.500 x 2.000 x 130 mm	600 kg x 200 g	Consult
186010	1.500 x 2.000 x 130 mm	1.500 kg x 500 g	Consult
186012	1.500 x 2.000 x 130 mm	3.000 kg x 1.000 g	Consult
186013	1.500 x 2.000 x 150 mm	6.000 kg x 2.000 g	Consult
186014	1.500 x 2.500 x 180 mm	3.000 kg x 1.000 g	Consult
186015	1.500 x 2.500 x 180 mm	6.000 kg x 2.000 g	Consult
186016	1.500 x 2.500 x 180 mm	10.000 kg x 5.000 g	Consult
186017	2.000 x 2.500 x 180 mm	3.000 kg x 1.000 g	Consult
186018	2.000 x 2.500 x 180 mm	6.000 kg x 2.000 g	Consult
186019	2.000 x 2.500 x 180 mm	10.000 kg x 5.000 g	Consult

RL-SEFLow-Profile Stainless Steel Floor Scale

Options/Accessories

Part #	Description	Price
188204	Stainless steel column 450 x 450 mm, h=917 mm Ø 38 mm (designed to work with RLT-100, RLT-200, RLT-300 and RLT-400 indicators)	Consult
188205	Stainless steel column 450 x 450 mm, h=917 mm Ø 38 mm. Painted steel base (designed to work with RLT-100, RLT-200, RLT-300 and RLT-400 indicators)	Consult
188206	Stainless steel column 350 x 350 mm, h=750 mm. Painted steel base (designed to work with RLT-100, RLT-200, RLT-300 and RLT-400 indicators)	Consult
188254	Stainless steel ramp, 1.000 x 9.000 x 90 mm for PN 185992, PN 185993, PN 185994, PN 185995, PN 185996 and PN 185998	Consult
188255	Stainless steel ramp, 1.250 x 900 x 90 mm for PN 185999, PN 186000, PN 186001 and PN 186002	Consult
188256	Stainless steel ramp, 1.250 x 1.100 x 115 mm for PN 186003, PN 186004 and PN 186005	Consult
188257	Stainless steel ramp, 1.500 x 1.100 x 115 mm for PN 186006, PN 186007 and PN 186008	Consult
188242	Kit of four stainless steel plates for fixing on the floor	Consult
N/A	Installation, testing, configuration and verification.	Consult factory

FORKLIFT/PALLET JACK SCALES

Forklift/ Pallet Jack Scales

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RL-HPJ Hand Pallet Jack Scale



Maximum lifting capacity 2.000 kg 2.000 kg x 1 kg (approved) 1.000 kg x 0,5 kg (approved) Accuracy:

Weight:

Specifications
Fork Dimensions:

Approx. 125 kg

Capacity and Resolution:

± 0,05% of the maximum capacity

Powder coated: 1,150 mm x 550 mm x 85 mm Stainless steel: 1,180 mm x 550 mm x 80 mm

Standard Features

- Heavy-gauge steel and powder coated finish or stainless steel models available
- Steering wheels and double loading polyurethane rollers (painted model) or nylon wheels (stainless steel model)
- · Four stainless steel IP68 load cells
- Weight indicator in IP65 stainless steel water-resistant enclosure, which is easy to clean and resistant to harsh and corrosive environments
- Large 25 mm LCD display high contrast digits, which are clearly visible even in poor lighting conditions, and waterproof membrane keyboard, with 17 functional keys
- Configuration, calibration and diagnostics from keyboard
- Rechargeable battery mounted on the pallet jack (painted model) or internal battery (stainless steel model)
- Operating time of about 80 hours of continuous use or one month with the typical non-continuous
 use, thanks to its programmable automatic power saving function
- Includes a 230 VAC 50 Hz battery charger
- Fitted with a thermal printer in the RL-HPJ-EP and RL-HPJ-ESSP models with date and time card
- · Function modes:
 - o High resolution x 10 display
 - o Net/Gross
 - o Meter and litre counter function with conversion factor
 - o Weigh totalizing
 - o Formula weighing
 - o +/- checkweighing with quick target and threshold input
 - o Percentage weighing
 - o Percentage batching with programmable target
 - o Piece counter
 - o Hold

APPROVALS





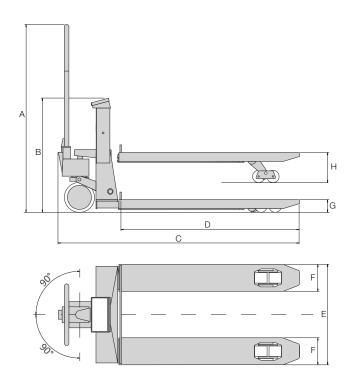


Part Number/Price

Part #	Description	Est. Weight	Price
181824	Pallet Jack Scale RL-HPJ-E, powder coated pallet jack scale	125 kg	Consult
181825	Pallet Jack Scale RL-HPJ-EP, Powder coated pallet jack scale with printer	125 kg	Consult
188666	Pallet Jack Scale RL-HPJ-ESS, stainless steel pallet jack scale	135 kg	Consult
188667	Pallet Jack Scale RL-HPJ-ESSP, stainless steel pallet jack scale with printer	135 kg	Consult

Options/Accessories

Part #	Description	Price
189086	Power supply, for Pb battery (to be used with 181824 and 181825)	Consult
189085	Battery, rechargeable (to be used with 181824 and 181825)	Consult
N/A	Installation, testing, configuration and verification	Consult
192480	Power supply, for NiMH (to be used with 188666 and 188667)	Consult
192482	Replacement paper rolls	Consult



Din	Dimensions				
Α	1.200 mm	Е	550 mm		
В	760 mm	F	180 mm		
С	1.630 mm	G	85 mm (80mm SST)		
D	1.150 mm (1.180mm SST)	Н	200 mm		



The RL-MFLS is designed for indoor use to accurately weigh pallets throughout warehouse environments with Legal for Trade approved accuracy. Install on any forklift carriage class type Fem II using a DIN 15173 FEM holder plate.

RL-MFLS includes carriage plate scale assembly and battery-powered RLT-300 indicator with cabled connection. Includes tilt sensor for approval purposes.

Standard Features

Weighing Carriage:

- Two shear beam IP68 stainless steel load cells
- · Hermetically sealed junction box

Cab-Mounted RLT-300 Indicator:

- Six-digit backlit LCD display, h=25 mm
- ABS housing IP68
- · Waterproof keyboard functions
 - Zero
 - Semi automatic or preset tare
 - Function mode
 - Print or data transmission
 - On/Off
- · Forklift cab mounting bracket
- · Rechargeable battery operation
 - o Provides power to indicator and carriage
 - Operating time of approximately 40 hours continuous use on included rechargeable battery kit
 - Programmable auto off feature
 - Battery charger included
- · Function modes
 - 0 High resolution x 10 display
 - 0 Net/Gross
 - Meter and litre counter function with conversion factor 0
 - Weigh totalizing 0
 - Formula weighing 0
 - +/- checkweighing with quick target and threshold input 0
 - Percentage weighing 0
 - Percentage batching with programmable target 0
 - Piece counter 0
 - Hold

Specifications

Carriage Class Type:

RL-MFLS 15A - Fem IIA

Capacity and Resolution (Dual Range):

RL-MFLS 15A:

 $0 - 600 \times 1 \text{ kg} / 600 - 1.500 \times 2 \text{ kg (approved)}$

 $0 - 600 \times 0.2 \text{ kg} / 600 - 1.500 \times 0.5 \text{ kg}$

RL-MFLS 25A:

 $0 - 1.500 \times 2 \text{ kg} / 600 - 2.500 \times 5 \text{ kg (approved)}$

$0 - 1.500 \times 0.5 \, \text{kg} / 1.500 - 2.500 \times 1 \, \text{kg}$

Carriage Weight:

190 kg

Accuracy:

0,05% of nominal capacity

Max Horizontal Inclination Accuracy:

Max Barycentric Shifting:

55 mm

Warranty:

APPROVALS

CE

1 year limited warranty

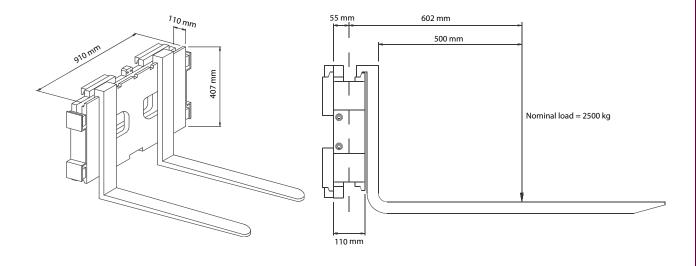


Part Number/Price

Part #	Description	Price
186151	RL-MFLS – 15A 1500 kg capacity kit (includes RLT-300 indicator, tilt sensor, mounting bracket and extension cable) Includes calibration	Consult
192377	RL-MFLS – 25A 2500 kg capacity kit (includes RLT-300 indicator, tilt sensor, mounting bracket and extension cable) Includes calibration	Consult
N/A	Approval	Consult

Plate Type: FEM 2
Thickness: 110 mm
Barycentre: 55 mm
Equipment Weight: 190 kg

Nominal Capacity: 2.500 kg with load's barycentre at 500 mm from the back of the forks



Replacement Parts

Part #	Description	Price
186156	Extension cable assembly	Consult

RL-MWF

Lift Truck Mobile Weighing Forks



The RL-MFW is designed for light duty indoor use to accurately weigh pallets throughout warehouse environments with Legal for Trade approved accuracy. Install on any forklift carriage class type Fem IIA or IIIA using a DIN 15173 FEM holder plate. Provides legal weight without derating lift truck capacity.

RL-MWF includes a pair of forks with rechargeable battery and RLT-300 weight indicator mounted on one fork to allow for ease of installation. Optional in-cab indicator provides access to weighing functionality, via Bluetooth®.

Standard Features

Weighing Forks:

- · Four shear beam IP68 load cells
- · Painted steel forks
- 0.05% of nominal capacity
- · Includes inclinometer

Integrated RLT-300 Indicator:

- Six-digit backlit LCD display, h=25 mm
- · Steel housing
- · Waterproof keyboard functions
 - o Zero
 - Semi automatic or preset tare
 - Function mode
 - Print or data transmission
 - On/Off
- · Rechargeable battery operation:
 - o Provides power to fork mounted indicator and weighing forks

 - Operating time of approximately 40 hours continuous use on included rechargeable battery kit
 - Programmable auto off feature
 - Battery charger included, 230 VAC 50/60 Hz, approx. 8 hours charge time
- · Function modes:
 - o High resolution x 10 display
 - Net/Gross
 - Meter and litre counter function with conversion factor
 - Weigh totalizing 0
 - Formula weighing
 - +/- checkweighing with quick target and threshold input
 - Percentage weighing
 - Percentage batching with programmable target
 - Piece counter 0
 - Hold

Specifications

Carriage Class Type:

RL-MWF 1125 AM-2 – Fem IIA RL-MWF 1150 AM-2 - Fem IIIA

Capacity and Resolution (Dual Range): RL-MWF 1125 AM-2:

 $0 - 1.000 \times 2 \text{ kg} / 1.000 - 2.500 \times 5 \text{ kg (approved)}$ $0 - 500 \times 1 \text{ kg} / 500 - 1.000 \times 2 \text{ kg} / 1.000 -$ 2.500 x 5 kg

RL-MWF 1150 AM-2:

 $0 - 2.500 \times 5 \text{ kg} / 2500 - 5.000 \times 10 \text{ kg (approved)}$ 0 - 1.000 x 2kg / 1.000 - 2.500 x 5kg / 2.500 - 5.000 x 10kg

Accuracy:

0,05% of nominal capacity

Fork Weight:

RL-MWF 1125 AM-2 - 75 kg each RL-MWF 1150 AM-2 - 90 kg each

Max Horizontal Inclination Accuracy: +/- 2 degrees

Max Allowable Overload Protection:

200% of nominal capacity

Warranty:

APPROVALS

 $C \in$

1 year limited warranty



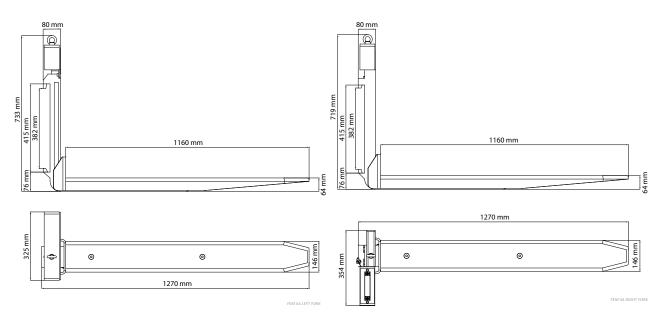
Part Number/Price

Part #	Description	Price
186143	RL-MWF 1125 AM-2 2500 kg capacity	Consult
186144	RL-MWF 1150 AM-2 5000 kg capacity	Consult
N/A	Approval	Consult

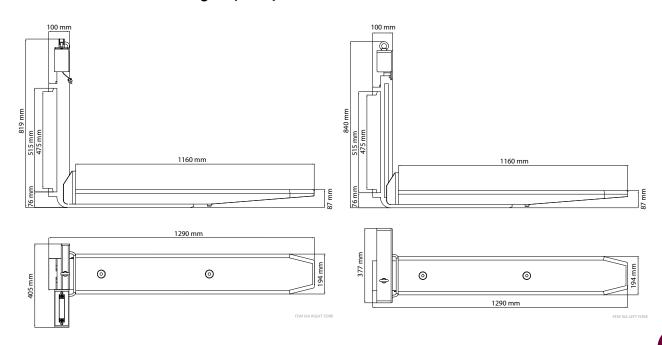
Options/Accessories

Part #	Description	Price
N/A	In-cab kit (display includes indicator, printer, mounting kit, USB storage and program)	Consult
186145	Optional spare battery kit	Consult
192278	Battery charger	Consult

RL-MWF 1125 AM-2 2500 kg Capacity FEM IIA



RL-MWF 1150 AM-2 5000 kg Capacity FEM IIIA



Hanging Scales

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ON-SITE OS-10/OS-25/OS-45120

On-site Suspended Scale

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RICE LAKE On-site OS-10/OS-25/OS-45 On-site Suspended Scale



Standard Features

- Hold function
- Units of measure: kg/lb/lb-oz
- · Adjustable automatic shutoff
- Ergonomic handheld design
- Battery operated, two AA batteries included
- · Carrying case and top s-hook included
- · Limited one-year warranty

Part #	Model	Capacity	Est. Weight	Price
130292	0S-10	10 kg x 0,01 kg (22 lb x 0,02 lb) (22 lb x 1/4 oz)	0,57 kg	Consult
130293	0S-25	25 kg x 0,02 kg (55 lb x 0,05 lb) (55 lb x 1/2 oz)	0,57 kg	Consult
130294	0S-45	45 kg x 0,05 kg (99 lb x 0,1 lb) (99 lb x 1 oz)	0,57 kg	Consult



Hardware and **Accessories**

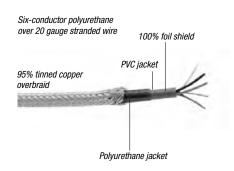
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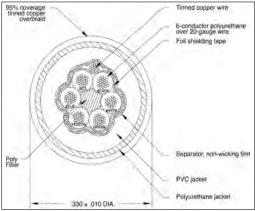
EL147RP PlusRodent Protection Cables



Standard Features

- Tinned copper overbraid provides superior rodent and abrasion deterrent
- Enhanced EMI/RFI protection
- Six-conductor industry-standard color code
- Ideal for truck and railroad scales
- Diameter: 8,38 mm
- Temperature rating -30°C to 80°C
- Jacket coating enhanced with a chemical coating "NAW" that is distasteful to rodents

	· · · ·		
Part#	Continuous Roll	Description	Price
31475	Custom length	Six-conductor hostile environment cable	Consult
131964	30,5 m	Six-conductor hostile environment cable	Consult
131965	76,2 m	Six-conductor hostile environment cable	Consult
131966	152,4 m	Six-conductor hostile environment cable	Consult
131967	304,8 m	Six-conductor hostile environment cable	Consult



EL147RP Plus

Hostile Environment Load Cell Cable

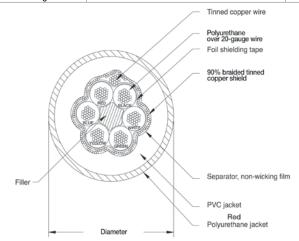
90% Braided Shield PVC Jacket Foil Shield

Polyurethane Jacket

Four or six conductor polyurethane over 20 gauge wire

Part Number/Price

Part#	Continuous Roll	Description	Price
15510	30,5 m	Four-conductor hostile environment cable	Consult
15511	76,2 m	Four-conductor hostile environment cable	Consult
15512	152,4 m	Four-conductor hostile environment cable	Consult
15513	304,8 m	Four-conductor hostile environment cable	Consult
15494	Custom Length	Four-conductor hostile environment cable	Consult
15520	30,5 m	Six-conductor hostile environment cable	Consult
15521	76,2 m	Six-conductor hostile environment cable	Consult
15522	152,4 m	Six-conductor hostile environment cable	Consult
15523	304,8 m	Six-conductor hostile environment cable	Consult
15496	Custom Length	Six-conductor hostile environment cable	Consult



Standard Load Cell Cable

EL147

Standard Features

Standard Features • EL146HE—four-wire load cell cable

• EL147HE-six-wire load cell cable • Designed for use in hostile environments

chemical and abrasion resistance

• Diameter—EL146HE: 7.1 mm; EL147HE: 8.1 mm

extending existing cable • Temperature rating: -30°C to 80°C

color coded

• 500 V rating

Polyurethane jacketing provides superior

· The six-wire cable is best suited for longer runs where remote sense lines can be used · Use the four-wire cable for repairing or

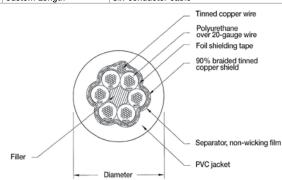
 RFI and EMI protected with foil overbraid shield • Unmatched durability, yet extremely flexible · All conductors are industry-standard

- EL146—four-wire load cell cable
- EL147—six-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—EL146: 6.4 mm; EL147: 7.4 mm
- The six-wire cable is best suited for longer runs where remote sense lines can be used
- Use the four-wire cable for repairing or extending existing cable
- Temperature rating: -30°C to 80°C

Part Number/Price

FI 146

Part#	Continuous Roll	Description	Price
15505	30,5 m	Four-conductor cable	Consult
15506	76,2 m	Four-conductor cable	Consult
15507	152,4 m	Four-conductor cable	Consult
15508	304,8 m	Four-conductor cable	Consult
15493	Custom Length	Four-conductor cable	Consult
15515	30,5 m	Six-conductor cable	Consult
15516	76,2 m	Six-conductor cable	Consult
15517	152,4 m	Six-conductor cable	Consult
15518	304,8 m	Six-conductor cable	Consult
15495	Custom Length	Six-conductor cable	Consult



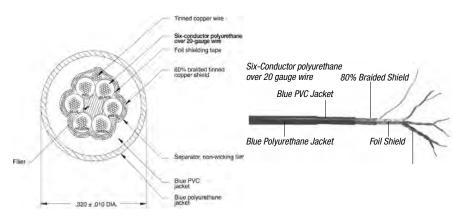
APPROVALS







EL147IS Hazardous Environment Blue Jacket Cable

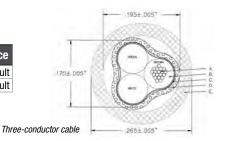


Standard Features

- 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 (Three-conductor also available)
- Diameter: 8.1 mm
- Suited for longer runs where remote sense lines can be used
- Temperature rating: -30°C to 80°C

Part Number/Price

Part#	Description	Price
32817	EL147IS, blue jacket six-conductor	Consult
72241	Blue jacket, shielded three-conductor	Consult



EL144 Communications Cable



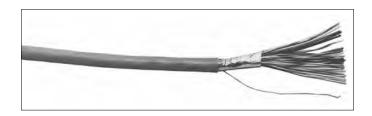
Standard Features

- 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: 4,8 mm

Part Number/Price

Part#	Description	Price
32803	EL144	Consult
72691	EL11, 30,5 m	Consult
72072	EL144, 152,4 m	Consult
72693	EL144, 304,8 m	Consult

BCD Cable



Standard Features

- Sheathed in gray PVC
- Mylar aluminum foil shield with stranded tinned copper drain wire
- Diameter: 9,5 mm

Part#	Description	Price
15497	BCD, 24 AWG, 30-conductor	Consult

Fiber-Optic Cable

Standard Features

- Duplex cable polyethylene black jacket material
- 4,4 + 0,10 mm outer diameter of duplex cable
- 2,2 + 0,007 mm single cable outer diameter
- Operating temperature: 0°C to 70°C



Color Code: Black-TXD, Blue-RXD

Part Number/Price

Part#	Description	Price
78910	Custom length	Consult
78026	30,5 m cable	Consult
78027	60,96 m cable	Consult
78028	91,44 m cable	Consult
83052*	Fiber optic connector	Consult
80892	Fiber optic cable cutter	Consult
85548	Fiber optic hot knife	Consult

^{*}Duplex fiber cable requires two connectors

SURVIVOR® EL620HE High Temperature Cable

Standard Features

- · Multi-conductor overall foil and braid shield
- Suitable for temperatures from -40°C to 200°C
- Insulation thickness 0,25 mm
- Jacket thickness 0,43 mm
- 18 gauge, tinned copper conductors
- · Six-wire or 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 airplenum non-conduit
- 6,1 mm diameter cable



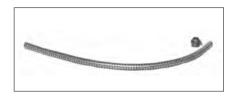
Part Number/Price

Part#	Description	Price
15605	EL620HE	Consult

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
- 12,7 mm internal diameter, 50,8 mm minimum bend radius
- Optional end fitting with 12,7 mm male pipe thread



Part#	Description	Price
17808	Galvanized steel	Consult
17806	Stainless steel	Consult
17807	Optional end fitting	Consult

^{*}Maximum guaranteed transmission distance when used with the 320IS/IO module is 73.2 m

EL148HE Replacement Mettler Toledo® Power Cell® Cable



Standard Features

- 100% stainless steel military connector-electro deposited nickel plating with stainless banding and epoxy heat-shrink strain relief
- Stainless steel artic ring precision cut for improved connection
- Textured rubber boot for additional grip
- Standard Mettler Toledo color code
- Custom lengths available including standard lengths listed below cables

Part Number/Price

Part#	Cable Length Each	Price
100268	2,4 m	Consult
101102	3,7 m	Consult
104164	4,6 m	Consult
100269	7,9 m	Consult
100270	10,7 m	Consult

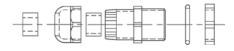
Cord Grip Assemblies



Standard Features

- Assemblies include cord grip, locknut, 0-ring seal, gray and black reducer glands
- Fittings are made of weather- and corrosionresistant nylon

Part #	Thread	Panel Hole Diameter	Regular (Black)	Reducer (Gray)	Price
Gland Ca	able Ranges				
15669	PCN9	15.9 mm	4.0 mm-8.0 mm	3.0 mm-6.0 mm	Consult
15670	3/8 NPT	17.4 mm	4.0 mm-8.0 mm	3.0 mm-6.0 mm	Consult
15671	1/2 NPT	21.4mm	6.0 mm-12.0 mm	5.1 mm-9.0mm	Consult



EL214 Cable Splicing Kit

Specifications

Dimensions:

(W x H x D) 76,2 mm x 25,4 mm x 38,1 mm

Mounting Centers:

63,5 mm

Number of Connections:

Seven

Cable Diameter:

4,7 mm-7,9 mm

Cure Time For Potting:

Epoxy-polyamide resin cures in two hours at 23°C $\,$



Standard Features

- 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

Part Number/Price

Part#	Description	Price
15485	EL214	Consult

EL214T Cable Splicing Kit

Specifications

Dimensions:

(W x H x D) 76,2 mm x 25,4 mm x 38,1 mm

Mounting Centers:

63.5 mm

Number of Connections:

Seven

Cable Diameter:

6,9 mm-12,2 mm

Cure Time For Potting:

Epoxy-polyamide resin cures in two hours at 23°C



Standard Features

 Designed to accommodate cables larger than the EL214; all other dimensions and performance features are the same

Part Number/Price

Part#	Description	Price
15486	EL214T	Consult

EL215 Cable Splicing Kit



Specifications

Dimensions:

(W x L) 34,9 mm x 152,4 mm

Number of Connections:

Seven

Cable Diameter:

Up to 19,1 mm

Cure Time For Potting:

Two hours at 21°C

Standard Features

- Designed for use in weather-exposed or direct-burial locations
- Each kit contains plastic splicing tube, circuit board, insulating resin and instructions

Part#	Description	Price
15612	EL215	Consult

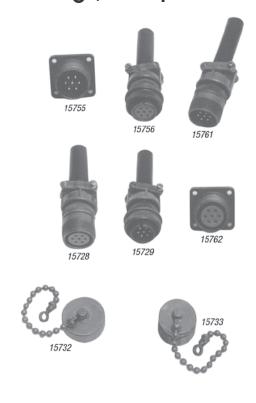
Five-Position Connectors, Shell Plugs, Receptacles



Six-Position Connectors, Shell Plugs, Receptacles

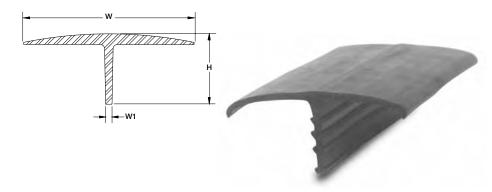


Seven-Position Connectors, Shell Plugs, Receptacles



Part#	Description	Drice
	Description	Price
15753	Five-Pin, external thread	Consult
15722	Five-socket, internal thread	Consult
15723	Five-Pin, internal thread	Consult
15757	Five-socket, external thread	Consult
15754	Five-Pin chassis mount, external thread	Consult
15758	Five-socket chassis mount, external thread	Consult
15730	Dust cap for ext. thread five-position connector	Consult
15731	Dust cap for int. thread five-position connector	Consult
15759	Six-Pin, external thread, male	Consult
60124	Six-socket, internal thread connector, female fits Toledo load cells, Condec indicators	Consult
15727	Six-Pin, internal thread, male	Consult
15724	Six-socket, external thread	Consult
15726	Six-Pin chassis mount, external thread	Consult
15760	Six-socket chassis mount, external thread	Consult
15730	Dust cap for ext. thread six-position connector	Consult
15731	Dust cap for int. thread six-position connector	Consult
15761	Seven-Pin, external thread	Consult
15756	Seven-socket, internal thread	Consult
15729	Seven-Pin, internal thread	Consult
15728	Seven-socket, external thread	Consult
15755	Seven-Pin chassis mount, external thread	Consult
15762	Seven-socket chassis mount, external thread	Consult
15732	Dust cap for ext. thread seven-position connector	Consult
15733	Dust cap for int. thread seven-position connector	Consult

T-Grip Molding



Standard Features

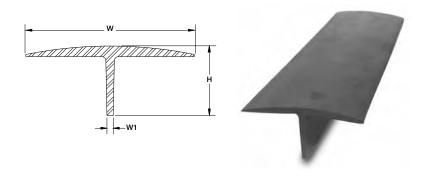
- Designed for use in truck scale applications to prevent spill-over into the pit
- Impact, tear, and weather-resistant EPDM rubber
- · Barbed web to hold molding in place
- Web thickness 5,6 mm
- Available by the meter-3,1 m, 3,4 m, 21,34 m, 24,4 m and 30,5 m lengths.
- Maximum continuous length is 137 m

Part Number/Price

Part#	Н	W	W1	Length	Price
18799	65,0 mm	146,1 mm	5,6 mm	Sold by the meter	Consult
18800	65,0 mm	146,1 mm	5,6 mm	3,05 m	Consult
18801	65,0 mm	146,1 mm	5,6 mm	3,35 m	Consult
18802	65,0 mm	146,1 mm	5,6 mm	21,34 m	Consult
33219	65,0 mm	146,1 mm	5,6 mm	24,4 m	Consult
33222	65,0 mm	146,1 mm	5,6 mm	30,5 m	Consult

Note: Maximum continuous length is 450 ft. Call for price and availability.

T-Strip Molding



Standard Features

- Designed for use in truck scale applications to prevent spill-over into the pit
- Impact, tear, and weather-resistant SBR rubber
- Web thickness 6,4 mm
- Available by the meter-3,1 m, 3,4 m, 21,34 m, 24,4 m and 30,5 m lengths. Maximum continuous length is 137 m

Part Number/Price

Part#	Н	W	W1	Length	Price
18736	50,8 mm	114,3 mm	6,4 mm	Sold by the meter	Consult
18776	50,8 mm	114,3 mm	6,4 mm	3,05 m	Consult
18797	50,8 mm	114,3 mm	6,4 mm	3,35 m	Consult
18798	50,8 mm	114,3 mm	6,4 mm	21,34 m	Consult
33223	50,8 mm	114,3 mm	6,4 mm	24,4 m	Consult
33224	50,8 mm	114,3 mm	6,4 mm	30,5 m	Consult

Note: Maximum continuous length is 137,2 m. Call for price and availability.

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GO-BETWEEN 192 Data Capture and Storage

Looking for products?

Please visit www.ricelake.com/global for current product pricing or call our European office at +31 (0) 26 472 1319 to talk to an industry expert about our product offerings and customized solutions.

CW-90 and CW-90X

Checkweigher Indicator Only



Standard Features

- PreVent[™] breather vent
- . Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz
- LED display, 20 mm, six-digit, 14-segment
- Two full duplex serial ports
- · Configurable print formats
- · Audit trail tracking
- · Optional communications: Ethernet, USB or fiber optic
- Four configurable digital I/O
- · Reflash memory to upgrade firmware
- · Auto print capability

- Membrane keypad consisting of zero, units, print, tare, over, under, ID, target, 0-9, clear, decimal, enter, menu, power
- 304 stainless steel, IP66 rated
- · Time and date

- · Piezo keypad consisting of zero, units, print, tare, over, under, ID, target, enter, menu, power
- 304 stainless steel, IP69K rated
- · Battery-backed time and date

Additional models are available with the approvals shown here Please consult the factory for part numbers.



Measurement Approved



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)

Excitation Voltage:

+5 VDC 8 x 350Ω or $16 \times 700\Omega$ load cells

Analog Signal Input Range:

-0,5 mV/V - 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 graduations maximum

System Linearity:

± 0,01% full scale

Digital I/O:

Four channels on CPU board

Circuit Protection:

RFI, EMI, ESD protection

Status Annunciators:

Designators for percent, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

Approvals

Display:Large 20 mm 14-segment, six-digit high-intensity red LED display

Keys/Buttons:

CW-90: Membrane keypad, 23 keys with international symbols CW-90X: Piezo keypad, 11 keys with international symbols

Temperature Range:

Certified: -10°C to 40°C

Rating/Material:

CW-90: IP66, stainless steel CW-90X: IP69K, stainless steel

Warranty:CW-90: Two-year limited warranty
CW-90X: Three-year limited warranty

Approvals:

CW-90: NTEP CC 08-092, CW-90X: NTEP CC 08-092, Class III/IIIL 10,000d Measurement Canada AM-5710

OIML R76/2006-GBI-10.02 EU Test Certificate GB-1385 UL/cUL Listed CE marked

CW-90 and CW-90X

Checkweigher Indicator Only

CW-90 Part Number/Price

Part #	Description	Est. Weight	Price
105970	CW-90, 115 VAC	3 kg	Consult
105971 ^{††}	CW-90, 230 VAC, CE marked/ OIML approved	3 kg	Consult
118888	CW-90, 230 VAC	3 kg	Consult
171247	CW-90, 230 VAC	3 kg	Consult

CW-90X Part Number/Price

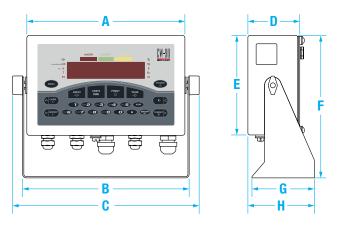
Part #	Description	Est. Weight	Price
105972	CW-90X, 115 VAC	3kg	Consult
105973 ^{††}	CW-90X, 230 VAC, CE marked/ OIML approved	3kg	Consult
118889	CW-90X, 230 VAC	3 kg	Consult
171248	CW-90X, 230 VAC	3 kg	Consult



†† CEE 7/7 plug (Euro)

CW-90 and CW90X Options/Accessories

Part #	Description	Price
77142	Ethernet TCP/IP	Consult
108671	Wireless LAN card Wi-Fi 802.11 A/B	Consult
93245	USB Port (PC connection only)	Consult
95357	USB cable, Type A to mini-B, 1 m	Consult
171968	Firmware download cable	Consult
96736	Fiber optic board	Consult
78026	Fiber optic, duplex cable 100 ft	Consult
80892	Fiber optic cutter	Consult
117358	WeighVault™ (requires part number 77142 or 108671)	Consult



Dimensions						
Α	241 mm	D	79 mm	G	95 mm	
В	255 mm	Ε	152 mm	Н	102 mm	
С	285 mm	F	218 mm			

480/480 Plus Legend™ Series

Digital Weight Indicator



Standard Features

- · LED display, 20 mm, six-digit, seven-segment
- · Time and date, battery-backed
- · Local/remote operation
- Numeric keypad (480 Plus)
- · Keyed entries for setpoint values (480 Plus)
- Two independent serial ports, RS-232 and 20 mA
- NEMA Type 4X/IP66 stainless steel washdown enclosure
- · Programmable ticket formats for gross, net, accumulator and setpoints
- · Five continuous stream formats
- Adapter filter or rolling average filter
- Operator functions through menu for audit trail, preset tare, unit ID, accumulator, time and date, setpoints, communications and print formats
- · Eight setpoints, sequenced batch engine
- · Configurable with Revolution® software

Options

- Analog output, 0-10 VDC, 0-20 mA, 4-20 mA, selection for 20% offset
- · Relay output, two digital inputs, four dry contact relays (supports 2 boards)
- Ethernet TCP/IP and USB interface (requires cable)
- Battery, rechargeable lithium ion Power for 18 hours of battery life on one 350 ohm load Power-saving modes for sleep and wake-up threshold

Approvals







Measurement Canada



Specifications

Power:

Line voltages: 100-240 VAC Frequency: 50-60 Hz DC voltages: n/a Power Consumption: 8 W

Excitation Voltage:

5 VDC, 8 x 350 Ω or 16 x 700 Ω load cells

Analog Signal Input Range:

±7 mV/V

Analog Signal Sensitivity:

0.1 uV/graduation minimum 0.5 uV/graduation recommended

A/D Sample Rate:

5, 10, 20, 40 Hz, software selectable

Resolution:

Internal: 523.000 counts Display: 100.000 graduations

System Linearity / PI Rating:

Within 0,01% of full scale

Digital I/O:

RFI capacitor bypass and ESD suppressors

Communication Ports:

Com 1: RS-232 full duplex Com 2: RS-232 full duplex or 20 mA simplex, continuous Both ports 1200, 2400, 4800, 9600, 19200,

38400 baud seven or eight data bits, even, odd or no

parity

(Optional) Analog Output:

16-bit resolution, voltage output 0-10 VDC, current output 0-20 mA / 4-20 mA

(Optional) Relay Board:

Two opto-isolated, 5 to 24 VDC, active high

Two inputs (requires relay output option). Primary keys, pseudo functions, batching functions. (4) 30 VDC, 2 amp dry-contract relays

(Optional) Ethernet and USB Board:

USB five-pin header for PC, printer or flash drive. Ethernet TCP/IP, RJ45 jack, server and client ports

Display:

LED display, 20 mm, six-digit, seven-segment

Status Annunciators:

Gross, net, center of zero, stand still, lb, kg, tare, preset tare

Keys/Buttons:

Flat membrane panel, embossed keys, tactile

Temperature Range:

Certified: -10°C to 40°C Operating: -10°C to 50°C

Weight:

3 kg

Rating/Material:

Enclosure: NEMA Type 4X/IP66, heavy-gauge stainless steel

Warranty: Two-year limited warranty

EMC Immunity: EN 50082 Part 2 IEC EN 61000-4-2, 3, 4, 5, 6, 8, and 11

Approvals:

OIML R76/2006-NL1-12.48, EU Test Certificate TC8322 Accuracy Class III, 10,000d CE Marked Measurement Canada AM-5892, Accuracy Class III/IIIHD, 10,000d NTEP CC 12-123, Accuracy Class III/IIIL, 10,000d UL/cUL Listed

480/480 Plus Legend™ SeriesDigital Weight Indicator

Part Number/Price: 480

Part #	Description	Est. Weight	Price
480 90-2	64 VAC **		
126565	480 LED	4 kg	Consult
130339	480 LED with analog output	4 kg	Consult
130341	480 LED with relay output	4 kg	Consult
164595	480 LED with USB/Ethernet	4 kg	Consult

Part Number/Price: 480 Plus

Part #	Description	Est. Weight	Price
480 Plus	90-264 VAC **		
164591	480 Plus LED	4 kg	Consult
164592	480 Plus LED with analog output	4 kg	Consult
164593	480 Plus LED with relay output	4 kg	Consult
164597	480 Plus LED with USB/ Ethernet	4 kg	Consult

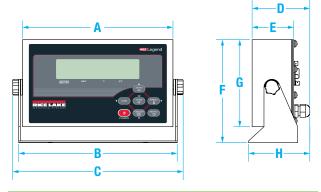


†† CEE 7/7 plug (Euro)

Options/Accessories

Part #	Description	Price
131340	Mounting bracket for option boards	Consult
131341	Analog output, 0-10 VDC, 4-20 mA (requires 131340)	Consult
131342	Relay board, two digital inputs, four dry contact outputs (requires 131340)	Consult
164600	USB and Ethernet TCP/IP (requires 131340)	Consult
164604	Ethernet cable with cord grip, 1,8 m	Consult
164602	USB cable with cord grip, type A female, 152 mm	Consult
167707	USB cable with cord grip, type A male, 1,8 m	Consult
167708	USB cable with cord grip, type B male, 1,8 m	Consult
165379	Flash update cable	Consult
164650	Battery kit, rechargeable lithium ion	Consult
151100	A/D sealing kit, used with audit trail tracking	Consult
151099	Panel mount bezel (not NEMA Type rated)	Consult
83564	Clear protective overlay (package of five)	Consult
77925*	Revolution° scale software, CD	Consult
119201	Installation manual	Consult
Primary I	Replacement Components	
131345	Overlay, 480 six-key, red window	Consult
159612	Overlay, 480 Plus with numeric keys, red window	Consult
131346	Display board, LED	Consult
131316	Power supply, 85-265 VAC	Consult
131318	CPU board	Consult
131319	A/D board	Consult

^{*} Revolution can be downloaded for free at www.ricelake.com



Di	Dimensions							
Α	241 mm	D	92 mm	G	152 mm			
В	254 mm	Ε	70 mm	Н	95 mm			
C	279 mm	F	178 mm					

482/482 Plus Legend™ Series Digital Weight Indicator



Standard Features

- · LCD backlit display, 20 mm, six-digit, seven-segment
- · Time and date, battery-backed
- · Local/remote operation
- Numeric keypad (482 Plus)
- · Keyed entries for setpoint values (482 Plus)
- Two independent serial ports, RS-232 and 20 mA
- NEMA Type 4X/IP66 stainless steel washdown enclosure
- · Programmable ticket formats for gross, net, accumulator and setpoints
- Five continuous stream formats
- · Adaptive filter or rolling average filter
- · Configurable with Revolution® software
- Operator functions through menu for audit trail, preset tare, unit ID, accumulator, time and date, setpoints, communications and print formats
- · Eight setpoints, sequenced batch engine

Options

- Analog output, 0-10 VDC, 0-20 mA, 4-20 mA, selection for 20% offset
- · Relay output, two digital inputs, four dry contact relays (supports 2 boards)
- Ethernet TCP/IP and USB interface (requires cable)
- Battery, rechargeable lithium ion Power for 40 hours of battery life on one 350 ohm load Power-saving modes for sleep and wake-up threshold







Measurement Canada



Specifications

Power:

Line voltages: 100-240 VAC Frequency: 50-60 Hz DC voltages: n/a Power Consumption: 8 W

Excitation Voltage:

5 VDC, 8 x 350Ω or 16 x 700Ω load cells

Analog Signal Input Range: $\pm 7 \text{ mV/V}$

Analog Signal Sensitivity:

0.1 uV/graduation minimum 0.5 uV/graduation recommended

A/D Sample Rate:

5, 10, 20, 40 Hz, software selectable

Resolution:

Internal: 523.000 counts Display: 100.000 graduations System Linearity / PI Rating:

Within 0,01% of full scale Digital I/O:

RFI capacitor bypass and ESD suppressors

Communication Ports:

Com 1: RS-232 full duplex Com 2: RS-232 full duplex or 20 mA sim-

plex, continuous

Both ports 1200, 2400, 4800, 9600, 19200,

baud seven or eight data bits, even, odd or no

(Optional) Analog Output:

16-bit resolution, voltage output 0-10 VDC, current output 0-20 mA / 4-20 mA

(Optional) Relay Board:

Two opto-isolated, 5 to 24 VDC, active high inputs.

Two inputs (requires relay output option). Primary keys, pseudo functions, batching functions. (4) 30 VDC, 2 amp dry-contract relays

(Optional) Ethernet and USB Board:

USB five-pin header for PC, printer or flash drive. Ethernet TCP/IP, RJ45 jack, server and client

Display:

LED display, 20 mm, six-digit, seven-segment

Status Annunciators:

Gross, net, center of zero, stand still, lb, kg, tare, preset tare

Keys/Buttons:

Flat membrane panel, embossed keys, tactile

Temperature Range:

Certified: -10°C to 40°C Operating: -10°C to 50°C

Weight:

3 kg

Rating/Material:

Enclosure: NEMA Type 4X/IP66, heavy-gauge stainless steel

Warranty: Two-year limited warranty

EMC Immunity: EN 50082 Part 2 IEC EN 61000-4-2, 3, 4, 5, 6, 8, and 11

Approvals:

OIML R76/2006-NL1-12.48, EU Test Certificate TC8322 Accuracy Class III, 10,000d CE Marked Measurement Canada AM-5892 Accuracy Class III/IIIHD, 10,000d NTEP CC 12-123, Accuracy Class III/IIIL, 10,000d UL/cUL Listed

482/482 Plus Legend™ SeriesDigital Weight Indicator

Part Number/Price: 482

Part #	Description	Est. Weight	Price
482 90-26	4 VAC † †		
164672	482 LCD	4 kg	Consult
164583	482 LCD with internal battery	4 kg	Consult

Part Number/Price: 482 Plus

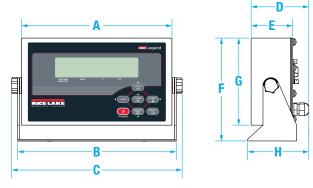
Part #	Description	Est. Weight	Price
482 Plus 9	0-264 VAC † †		
164673	482 Plus LCD	4 kg	Consult
164586	482 Plus LCD with internal battery	4 kg	Consult

†† CEE 7/7 plug (Euro)

Options/Accessories

Part #	Description	Price
131340	Mounting bracket for option boards	Consult
131341	Analog output, 0-10 VDC, 4-20 mA (requires 131340)	Consult
131342	Relay board, two digital inputs, four dry contact outputs (requires 131340)	Consult
164600	USB and Ethernet TCP/IP (requires 131340)	Consult
164604	Ethernet cable with cord grip, 1,8 m	Consult
164602	USB cable with cord grip, type A female, 152 mm	Consult
167707	USB cable with cord grip, type A male, 1,8 m	Consult
167708	USB cable with cord grip, type B male, 1,8 m	Consult
165379	Flash update cable	Consult
164650	Battery kit, rechargeable lithium ion	Consult
151100	A/D sealing kit, used with audit trail tracking	Consult
151099	Panel mount bezel (not NEMA Type rated)	Consult
83564	Clear protective overlay (package of five)	Consult
77925*	Revolution® scale software, CD	Consult
165124	Installation manual	Consult
Primary Re	eplacement Components	
161048	Overlay, 482 6-key, green window	Consult
161049	Overlay, 482 Plus with numeric keys, green window	Consult
153776	Display board, LCD	Consult
131316	Power supply, 85-265 VAC	Consult
131318	CPU board	Consult
131319	A/D board	Consult

^{*} Revolution can be downloaded for free at www.ricelake.com



Di	Dimensions							
Α	241 mm	D	92 mm	G	152 mm			
В	254 mm	Ε	70 mm	Н	95 mm			
С	279 mm	F	178 mm					

NEW 680 Synergy SeriesDigital Weight Indicator

Replacement for IQ355/420 Plus



Standard Features

- · Bright seven-digit, seven-segment LED display
- · Battery backed time and date
- · Full numeric keypad
- . Three serial ports: two RS-232, one full duplex RS-485
- Numeric keyed entry allowed for tare and setpoint entry
- Formattable tickets
- Ethernet TCP/IP
- USB device
- Stainless steel IP69K enclosure
- Four onboard configurable digital I/O points, TTL logic

Options

Analog output: 16-bit resolution, 0-10VDC, 0-20 mA, 4-20 mA

Approvals



Measurement Canada Approved







Specifications

Power:

Line voltages: 100-240 VAC Frequency: 50-60 Hz

Power consumption:

~2W (AC) with one 350 ohm load cell, 15W max

Excitation Voltage:

10 VDC (± 5 VDC), 8 x 350Ω or 16 x 700Ω

Analog Output (optional):

Type: Voltage or current output, 16-bit resolution

Voltage Output:

0-5 VDC, 0-10 VDC,+/- 5 VDC, +/- 10 VDC

Voltage Load Resistance:

1 KΩ minimum

Current Output:

0-20 mA, 0-24 mA, 4-20 mA

Current Loop Resistance:

1.000Ω maximum

Analog Signal Input Range:

-0.5 mV/V to +7 mV/V

Analog Signal Sensitivity:

1 µV/graduation recommended

A/D Sample Rate:

6.25-120 Hz, software selectable

Resolution:

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

System Linearity / PI Rating:

Within 0.01% full scale

Digital I/O:

Four configurable I/O - 5V logic

Communication Ports:

Two RS-232 full duplex RS-485 full duplex USB (device) Ethernet (10/100)

Status 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)

Temperature Range

Legal: 14°F to 104°F (-10°C to 40°C) Industrial: 14°F to 122°F (-10°C to 50°C)

Weight:

6.25 lb (3 kg)

Rating/Material:

Rating: IP69K Material: AISI 304 Stainless Steel

Warranty: Two-year limited warranty

EMC Immunity:

10 V/m

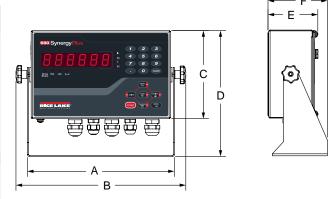
Approvals:

NTEP CC 12-123, Class III/IIIL, 10,000d Measurement Canada AM-5892, Class III/IIIHD, 10,000d OIMI UL/cUL Listed CE Marked



Part Number/Price

Part #	Description	Est. Weight	Price
193152 †	680 Plus indicator, LED display, 115- 230 VAC, US power cord	7 lb	Consult
193153 ††	680 Plus indicator, LED display, 115- 230 VAC, EU power cord	7 lb	Consult
196326 +++	680 Plus indicator, LED display, 115-230 VAC, UK power cord	7 lb	Consult
196327 ++++	680 Plus indicator, LED display, 115- 230 VAC, AUS power cord	7 lb	Consult
With Analog	Output Card		
195176 †	680 Plus indicator, LED display, 115- 230 VAC with analog output card, US power cord	7 lb	Consult
195177 ††	680 Plus indicator, LED display, 115- 230 VAC with analog output card, EU power cord	7 lb	Consult
196539 +++	680 Plus indicator, LED display, 115- 230 VAC with analog output card, UK power cord	7 lb	Consult
196538 ††††	680 Plus indicator, LED display, 115- 230 VAC with analog output card, AUS power cord	7 lb	Consult



Dimensions								
Α	10.02 in (254.5 mm)	D	8.57 in (217.6 mm)					
В	11.58 in (294.1 mm)	E	3.40 in (86.3 mm)					
С	6.00 in (152.4 mm)	E	4.05 in (26.67 mm)					



† 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 option card	Consult

To have your option factory installed, please specify when placing your order.

880/880 Plus Performance™ Series Programmable Digital Weight Indicator/Controller



880 Plus Universal



Approvals

880 Panel Mount

Standard Features

- LED display, 14 mm, six-digit, 14-segment
- RS-232 or RS-485 serial port
- USB device port connects directly to a PC
- Ethernet TCP/IP polled or continuous
- · AC or DC models
- Built-in DIN-rail clips on controller box (panel mount)
- Display and controller can be separated up to 75 m (panel mount)

Current version blue CPU board is 140 mm (5.5 in) wide

- · Hardware slot for one option card
- Operator functions through menu key for audit trail, preset tare, accumulator, time & 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
- · Local/remote operation
- · Multi-range or multi-interval weighing
- · Filter settings for light, medium and heavy noise

Options/Accessories

- · Metrological hardware sealing kit
- Adapter plate for converting 310A and 520 panel mounts
- · Panel mount kit for universal enclosure

Specification Options

Analog Output:

16-bit resolution, 0-10 VDC, 0-20 mA, 4-20 mA

Relay Board:

Four dry contact relays; DC Max: 30 VDC at 3 amps; AC max: 250 VAC at 3 amps per contact

EtherNet/IP Interface:

According to EN 50325-2

Profinet Interface:

According to IEC 61784 (CPF-3/3)

Modbus/TCP Interface:
Up to 8 bytes of I/O data, 100 Mbps full duplex Ethernet

Profibus DP Interface:

According to EN 50170

EtherCAT

According to IEEE 802.3

Additional models are available with the approvals shown below. Please consult the factory for part numbers.





Specifications

Power:

Line voltages: 100-240 VAC Frequency: 50-60 Hz DC voltages: 12-24 VDC

Power consumption: AC: 15 W, DC: 20 W

Excitation Voltage:

10 VDC, 16 x 350 Ω or 32 x 700 Ω load cells

Analog Signal Input Range:

-45 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 million counts/8.000.000 23 bit Display: 999.999

System Linearity:

± 0.01% full scale

Digital I/O:

Four I/O onboard (max), 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

Status Annunciators:

Gross, net, center of zero, standstill, lb, kg, tare, preset tare, multi-range/interval 1/2/3

Display:

LED, 14 mm, six-digit, 14-segment with decimal or comma

Keys/Buttons:

Membrane panel, tactile feel

Temperature Range:

Certified: -10°C to 40°C Operating: -10°C to 50°C

Dimensions (W x H x D):

Panel: 152 mm x 102 mm x 126 mm Universal: 251 mm x 238 mm x 110 mm

Weight:

Panel: 1 kg; Universal: 5 kg

Rating/Material: Display bezel NEMA Type 4X, Type 12, and IP69K Panel display: stainless steel Controller box: aluminum Universal: stainless steel

Warranty:

Two-year limited warranty

EMC Immunity: EN 50082 Part 2 IEC EN 61000-4-2, 3, 4, 5, 6, 8, and 11

Approvals:

NTEP CC 13-080 Class III/IIIL, 10.000d Measurement Canada AM-5931C Class III/IIIHD, OIML R76/1992-GB1-04,02 Class III, 10.000d EU Test Certificate TC8463 UL/cUL Listed (universal) UL/cUL Recognized (panel mount) CE Marked



880/880 Plus Performance™ Series Digital Weight Indicator/Controller

Part Number/Price

Part #	Description	Est. Weight	Price		
880 Panel I	Mount AC Powered				
151674*	Display only	1 kg	Consult		
177977*	115-230 VAC, controller only	2 kg	Consult		
177976*	115-230 VAC, without installed option	2 kg	Consult		
177979*	115-230 VAC with analog output	2 kg	Consult		
177980*	115-230 VAC with relay board	2 kg	Consult		
177982*	115-230 VAC with EtherNet/IP	2 kg	Consult		
177983*	115-230 VAC with ProfiNet	2 kg	Consult		
177984*	115-230 VAC with Modbus/TCP	2 kg	Consult		
177985*	115-230 VAC with Profibus DP	2 kg	Consult		
179155*	115-230 VAC with EtherCAT	2 kg	Consult		
880 Panel I	Mount DC Powered				
177987*	12-24VDC, without installed option	2 kg	Consult		
177988*	12-24VDC controller only	2 kg	Consult		
880 Plus U	niversal AC Powered				
177990 ^{††}	115-230 VAC, without installed option	4 kg	Consult		
178497 ^{††}	115-230 VAC with analog	4 kg	Consult		
178497 ^{††}	115-230 VAC, with relay board	4 kg	Consult		
880 Plus U	niversal DC Powered				
178495	12-24VDC, without installed option	4 kg	Consult		

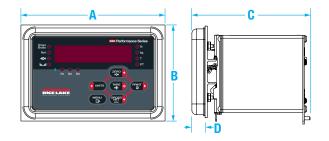
^{*}Power cable not included



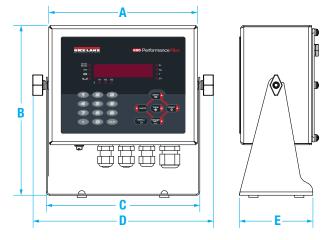
(†† CEE 7/7 plug (Euro)

Options/Accessories

Part #	Description	Price
Option Car	ds (5.5 in CPU only)	
179156	Analog output, 0-10VDC, 0-20 mA, 4-20 mA	Consult
179157	Relay board, four dry contact outputs	Consult
Network Ca	ards	
179158	EtherCAT interface	Consult
179159	EtherNet/IP® interface	Consult
179160	ProfiNet® interface	Consult
179161	Modbus/TCP [®] interface	Consult
179163	Profibus DP interface	Consult
Hardware		
153660	Metrological sealing kit	Consult
158404	Adapter plate for IQ310 and 520 replacement	Consult
101923	Relay box enclosure, does not include relay	Consult
177850	Panel mount kit for universal enclosure	Consult
15436	Power cord, pigtail with US NEMA 5-15 plug	Consult
105382	Power cord, pigtail with Euro Plug CEE 7/7	Consult
Cables		
152434	Cable, USB A to micro A shielded, 2 meters	Consult
156817	Cable, Ethernet TCP/IP CAT.5E shielded RoHS compliant blue RJ45 connectors 1 meter	Consult
156818	Cable, Ethernet TCP/IP CAT.5E shielded RoHS compliant blue RJ45 connectors 3 meters	Consult
156821	Cable, Ethernet TCP/IP CAT.5E shielded RoHS compliant blue RJ45 connectors 5 meters	Consult
Manuals a	nd Software	
77925	Revolution [™] scale software	Consult
152240	Operators manual	Consult
158387	Technical manual	Consult



88	0 Panel Mount Dimensions		
Α	152 mm	С	126 mm
В	102 mm	D	14 mm BEZEL DEPTH



88	880 Universal Dimensions									
Α	206 mm	D	248 mm							
В	235 mm	Е	102 mm							
С	213 mm									

Options/Accessories

Description	Price
mponent Parts (5.5 in CPU only)	
Overlay, panel mount, six-key	Consult
Overlay, universal with numeric keypad	Consult
Display board	Consult
Power supply, 100-240 VAC	Consult
Power supply, 12-24VDC	Consult
CPU board	Consult
	Overlay, panel mount, six-key Overlay, universal with numeric keypad Display board Power supply, 100-240VAC Power supply, 12-24VDC

^{*} Design change in 2017 to 140 mm wide controller, see replacement parts catalog for the 127 mm wide boards.

Specifications

Power:

Line voltages: 230 VAC Frequency: 50 or 60 Hz Power consumption: 340 mA, maximum at 115 VAC (26 W) 240 mA at 230 VAC (26 W)

Excitation Voltage:

10 \pm VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

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 typical at 120 Hz 4,0 µV/graduation typical at 960 Hz

A/D Sample Rate:

7,5 to 960 Hz, software selectable

Resolution:

Internal resolution: 8 million counts Weight display resolution: 9.999.999

System Linearity:

± 0,01% full scale

Digital I/0:

Six I/O channels on CPU board; optional 24-channel I/O expansion boards available

Circuit Protection:

RFI, EMI, ESD protection

Serial Ports:

Four ports on CPU board support up to 115.200 bps; optional dual-channel serial expansion boards available

Port 1: full duplex RS-232

Port 2: USB Type A and Type B connectors

Port 3: full duplex RS-232, 20 mA output

Port 4: full duplex RS-232, two-wire RS-485, 20 mA output

Display (W x H):

116 x 86 mm, 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast Transmissive display - standard Transflective display - option

Kevboard:

27-key membrane panel, tactile feel

Operating Temperature:

Legal: -10° C to 40° C Industrial: -10° C to 50° C

Weight:

Universal enclosure: 4,3 kg Wall mount enclosure: 10,4 kg Panel mount enclosure: 3,9 kg Deep universal: 5,0 kg

Rating/Material:

NEMA 4X/IP66, stainless steel

Warranty:

Two-year limited warranty

Approvals:

OIML UK 2658, 6.000/10.000 CE marked



Board information: previous version CPU board is green in color current version CPU board is blue in color





Standard Features

- Graphical, LCD display
- Selectable character sizes from 6 mm to 30 mm
- 60 configurable operator prompts
- Display up to four scale channels per screen with required Legal for Trade information
- 32 scale accumulators
- · Ten programmable display screens
- Five softkeys with 10 user-defined keys or 14 preset functions per screen
- Millivolt calibration, 5-point linearization and geographical calibration
- NEMA Type 4X/IP66 stainless steel enclosure
- Selectable A/D measurement rate up to 960/second
- 100 setpoints, 30 configurable setpoint types
- Two slots for option cards
- 1,000-ID truck register for in/out weighing
- 64 K user on-board NV RAM
- User programmable 128 K flash memory
- Reflash memory to upgrade firmware
- Power for 16 (350 ohm) load cells per A/D board
- Local-remote indicators
- · Multi range/interval
- Alibi storageAudit trail tracking
- · Peak hold
- Rate of change

USB Standard Features

- USB interface card on Port 2
- USB replaces RS-232 and PS/2 interface

Connector Types:

- Standard Type A: 920i connects to keyboard, ASCII font label ticket printers and flash drives
- Standard Type B: 920i connects to PC

USB Interface Functions:

- Supports weigh mode and configuration mode functions
- Supports upload of databases and .920 configuration file
- Supports download of databases, .920 configuration file, iRite, COD file and firmware file
- Sanity checks for command errors

Flash Drives:

- Supports USB 2.0
- Create sub directories by unit ID and database name
- Use the root directory for generic files

Optional Washdown Connectors page 146

- Sealed receptacle mounted externally
- Sealed cables
- Receptacle covers

Additional models are available with the approvals shown below. Please consult the factory for part numbers.





920i° SeriesProgrammable Weight Indicator/Controller





920i Universal Part Number/Price

Part #	Description	USB	Est.Weight	Price
Single-Ch	annel			
69522	230 VAC**		5 kg	Consult
120074	230 VAC**	USB	5 kg	Consult
107713 *	12-24 VDC, 25 watt		5 kg	Consult
120080 *	12-24 VDC, 25 watt	USB	5 kg	Consult
Dual-Char	inel			
69774	230 VAC**		5 kg	Consult
120096	230 VAC ^{††}	USB	5 kg	Consult
No A/D Ch	annel			
77791	230 VAC ^{††}		5 kg	Consult
120104	230 VAC**	USB	5 kg	Consult
*DC/DC con	vartar inetallad antion, not III	annroyad or	CE marked	

^{*}DC/DC converter installed option, not UL approved or CE marked



†† CEE 7/7 plug (Euro)

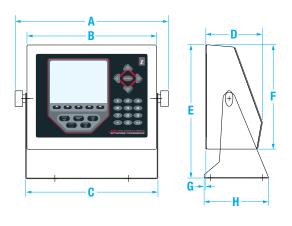
920i Deep Universal Part Number/Price

Part #	Description	USB	Est. Weight	Price		
Single-Cha	nnel					
82459	230 VAC††		5 kg	Consult		
120075	230 VAC††	USB	5 kg	Consult		
107714 *	12-24 VDC, 25 watt		5 kg	Consult		
120081 *	12-24 VDC, 25 watt	USB	5 kg	Consult		
Dual-Chani	nel					
82460	230 VAC††		5 kg	Consult		
120097	230 VAC ^{††}	USB	5 kg	Consult		
No A/D Cha	innel					
93244	230 VAC††		5 kg	Consult		
120105	230 VAC ^{††}	USB	5 kg	Consult		

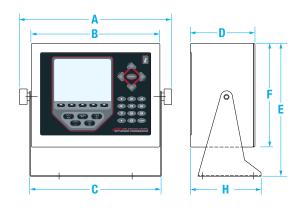
*DC/DC converter installed option, not UL approved or CE marked



†† CEE 7/7 plug (Euro)



920i Universal Dimensions					
Α	318 mm	D	117 mm	G	3,5 mm
В	268 mm	Ε	276 mm	Н	206 mm
С	277 mm	F	216 mm		



92	920i Deep Universal Dimensions						
Α	318 mm	D	216 mm	F	216 mm		
В	273 mm	Ε	276 mm	Н	149 mm		
С	277 mm						





920i Wall Mount Part Number/Price

Part #	Description	USB	Est. Weight	Price
Single-Cha	annel			
72133	230 VAC**		10kg	Consult
120078	230 VAC**	USB	10kg	Consult
107715 *	12-24 VDC, 25 watt		10kg	Consult
120082 *	12-24 VDC, 25 watt	USB	10kg	Consult
Dual-Chan	nel			
72134	230 VAC**		10kg	Consult
120098	230 VAC**	USB	10kg	Consult
No A/D Ch	annel			
77795	230 VAC**		10kg	Consult
120106	230 VAC**	USB	10kg	Consult
*DO/DO	cortor installed ention no			

*DC/DC converter installed option, not UL approved or CE marked



() †† CEE 7/7 plug (Euro)

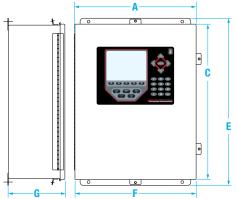
920i Panel Mount Part Number/Price

Part #	Description	USB	Est. Weight	Price
Single-Cha	innel			
72137	230 VAC ^{††}		4 kg	Consult
120079	230 VAC**	USB	4 kg	Consult
107716 *	12-24 VDC, 25 watt		4 kg	Consult
120083 *	12-24 VDC, 25 watt	USB	4 kg	Consult
Dual-Chan	nel			
72138	230 VAC ^{††}		4 kg	Consult
120099	230 VAC ^{††}	USB	4 kg	Consult
No A/D Cha	annel			
77793	230 VAC ^{††}		4 kg	Consult
120107	230 VAC ^{††}	USB	4 kg	Consult

*DC/DC converter installed option, not UL approved or CE marked

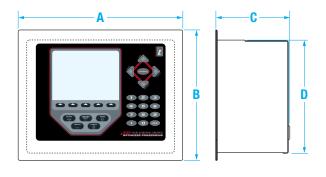


() †† CEE 7/7 plug (Euro)



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920i Wall Mount Dimensions						
Α	363 mm	D	479 mm	F	363 mm	
В	279 mm	E	499 mm	G	171 mm	
С	462 mm					



920i Panel Mount Dimensions					
Α	294 mm	С	132 mm		
В	233 mm	D	202 mm		

920i[®] Series

Programmable Weight Indicator/Controller

Options/Accessories

	7/Accessories	D.:
Part #	Description	Price
Option Card		
68532	A/D, single-channel	Consult
68533	A/D, dual-channel	Consult
67600	Memory, 1 MB NV RAM	Consult
67601	Digital I/O, 24-channel TTL output	Consult
67602	Analog output: selectable 0-10 V, 0-20 mA	Consult
103138	Analog output, dual-channel 0-10 V, 0-20 mA	Consult
67603	Pulse input, single-channel	Consult
67604	Serial port card, dual-channel, RS-232 and RS-485	Consult
87697	Analog input +/-10 VDC, 0-20 mA and thermocouple	Consult
Network Ca		
65383	Ethernet Thin Server (external)	Consult
71986	Ethernet TCP/IP 10/100 module (internal) page 181	Consult
98057	Ethernet TCP/IP, wireless LAN module 802.11 b/g page 181	Consult
87803	EtherNet/IP® page 181	Consult
68540	Profibus® DP interface page 180	Consult
187816	Profinet® I/O interface page 181	Consult
Expansion (Cards	
69782	Two-slot expansion board (wall mount)	Consult
71743	Two-slot expansion board (panel mount and deep universal)	Consult
179488		
180047	Two-slot expansion board (deep universal and panel mount, DC powered)	Consult
69783	Six-slot expansion board (wall mount)	Consult
Hardware		
83569	Clear protective overlay (package of 5)	Consult
70056	Cable, DB9M to DB9F, Straight Cable	Consult
99149	Keyboard, QWERTY 109-key USB, flexible, washable	Consult
77788	Fiber optic board, installed in 920i	Consult
19368	Start/stop controls without box, for use on wall mount	Consult
19369	Start/stop switch with FRP box	Consult
Manuals an		
69781	iRev [™] scale software	Consult
72809	920i interchange [®] database software	Consult
67887	Additional installation manual	Consult
67888	Additional programming reference	Consult
	nponent Parts	0- "
	CPU board assembly for LED backlight, (blue color)	Consult
186275 ***	Display board, LED back light, transmissive	Consult
186276 ***	Display board, LED back light, transflective	Consult Consult
67613	AC power supply, 25 watt for universal	
71333	AC power supply, 65 watt for deep, panel and wall mount	Consult
132791	Power supply 12-24VDC, 25 watt	Consult
66502	Switch panel membrane nge in 2018 to LED backlight display. See replacement parts	Consult

^{***}Design change in 2018 to LED backlight display. See replacement parts for CCFL backlight display and green CPU board Rev N or older.

The LED backlight display can be used with green CPU board Rev N or older by replacing the power supply cable. 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) 189724 (DC); Two-slot expansion panel for deep universal 188717 (AC) 189725 (DC); Six-slot expansion for wall 188774 (AC).

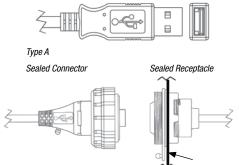
Options/Accessories

Part #	Description	Cor	nec	tor T	ype	Price
USB Cable		Sea	iled		n- iled	
Note: Con	nector is a male plug	A	В	A	В	
79074	Unsealed connectors USB-A to USB-B, 2 m cable			Х	Х	Consult
124700	Sealed connectors, USB-A to USB-B, 3 m IP68 cable	Х	Х			Consult
126477	Sealed connector USB-A to unsealed connector USB-A, 3 m IP68 cable	Х		Х		Consult
124701	Sealed connector USB-A to unsealed connector USB-B, 3 m IP68 cable	Х			Х	Consult
124702	Sealed connector USB-B to unsealed connector USB-A, 3 m IP68 cable		Х	Х		Consult
124695	Panel plug 1.125 in diameter					Consult
USB Rece Note: Rec	ptacles eptacle is a socket	Sea	iled		n- iled	
126476	Sealed receptacle USB-A for wall mount, 0.5 m cable	Х		Х		Consult
124703	Sealed receptacle USB-A to unsealed connector USB-B , 0.5 m cable	Х			Х	Consult
124704	Sealed receptacle USB-B to unsealed connector USB-B , 0.5 m cable		Х		Х	Consult
125998 *	Sealed receptacle USB-A to five-pin connector, 0.28 m cable (internal to 920i)	Х				Consult
125999 *	Sealed receptacle USB-B to five-pin connector, 0.28 m cable (internal to 920i)	Х				Consult
124694	Cover for sealed receptacles					Consult
124689	Cover for flash driver mounts on se	ealed	recep	otacle		Consult
125077	Rice Lake USB flash drive, 1 GB					Consult
Ethernet (Cables	Sea	iled		n- iled	
124706	Sealed to sealed, 3 m cable)	<			Consult
124707	Sealed to unsealed connector, 3 m cable)	<	Х		Consult
Ethernet F	Receptacles	Sea	iled		n- iled	
126353 *	RJ-45 receptacle sealed, 0.28 m internal to 920i (requires Ethernet TCP/IP option installed))	<			Consult

*These options require a milled back plate which has two cutouts. If ordering only one receptacle, a plug (PN 124695) is required for the second cutout. USB enclosure parts with cutout: PN 119891 (Universal) PN 115118 (Universal Deep) PN 126585 (Wall Mount) Unsealed Connectors



Туре В



Backplate

146



8-channel relay rack PN 52312



16-channel relay rack PN 52314



24-channel relay rack PN 52315



OPTO 22 G4 PN-15973



OPTO 22 G4 PN-45408

Grayhill Relays and Racks

O. G. 7	ii kelays alla kacks	
Part #	Description	Price
52332	Two-channel input relay, 2,5-28 VDC	Consult
52318	Two-channel input relay, 120 VAC	Consult
52319	Two-channel input relay, 240 VAC	Consult
52331	Two-channel input relay, 10-32 VDC	Consult
52316	Two-channel output relay, 120-140 VAC at 2 amp	Consult
52317	Two-channel output relay, 240-280 VAC at 7 amp	Consult
71376	Two-channel output relay, 3-60 VDC at 1 amp	Consult
71377	Two-channel output relay, 0-200 VDC/VAC at 1,5A/10W (dry contact)	Consult
84698	Two-channel output relay, inductive load, 120-140 VAC at 2A	Consult
84699	Two-channel output relay, inductive load, 240-280 VAC at 2A	Consult
54215	Fuse, 3,15 amp, Grayhill	Consult
52312	Eight-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 4 slots	Consult
52314	16-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 8 slots	Consult
52315	24-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 12 slots	Consult
46189	Jumper strap, 10 position for Grayhill	Consult
108396	Digital input 5 VDC, 15-30 VAC/10-32 VDC	Consult
108397	Digital output 5VDC, 3-60 VDC	Consult
70780	Cable, 50-Pin flat ribbon for digital I/O, 24 in	Consult
70779	Cable, 50-Pin round ribbon for digital I/O with cord grip, 60 in	Consult
72442	Cable, 50-Pin round ribbon for digital I/O without cord grip, 60 in	Consult
93577	Cable, 50-Pin flat ribbon for digital I/O, 31 in	Consult
94384	Cable, 50-Pin flat ribbon for digital I/O, 50 in	Consult

OPTO 22 Relays and Racks

Part #	Description	Price
15969	G4IDC5 10-32VDC input relay module, white (N/O)	Consult
15970	G40DC5R dry contact 100 VDC/1.5A output, red (N/O)	Consult
22848	G40DC5R5 dry contact 100 VDC/1.5A output, red (N/C)	Consult
15971	G40AC5 115 VAC output relay module, black (N/O)	Consult
15972	G4IAC5 115 VAC input relay module, yellow (N/O)	Consult
22847	G40AC5A5 115/230 VAC output relay module, black (N/C)	Consult
36632	G40AC5A 115/230 VAC output relay module, black (N/O)	Consult
36631	G4IAC5A 230 VAC input relay module, yellow (N/O)	Consult
16478	Quencharc arc suppressor	Consult
101923	FRP enclosure with Opto four-channel rack	Consult
15973	Four-channel relay rack, 83 x 83 mm	Consult
45408	Four-channel relay rack 155 x 30 mm	Consult
33206	16-channel relay rack	Consult
33205	24-channel relay rack	Consult
99032	Adapter plate, for four-channel Opto rack 33490	Consult
26834	Fuse, 1A 250V (for PN 15970 and PN 22848)	Consult
21735	Fuse, 4A 250V (for PN 15971, PN 22847 and PN 36632)	Consult



OPTO 22 16-channel relay rack



OPTO 22 24-channel relay rack

1280 Enterprise™ Series

Programmable Color Touchscreen Weight Indicator/Controller



Standard Features

- Seven-inch, 800 x 480 pixel, graphical color display that adjusts for ambient light conditions
- Twelve-inch, 1280 x 800 pixel, graphical color display that adjusts for ambient light conditions
- · Highly customizable graphical user interface
- Three different enclosure types: universal with tilt stand, panel mount and wall mount
- · Resistive color touchscreen that can be used with gloves
- On-screen keyboard available during entry mode or use an external keyboard
- Multi-language operation and text entry
- Keypad for scale operations, numeric entry and navigation
- More than 150 built-in functions for programming
- Customize applications and data tables with iRite™ software
- Built-in web server for remote access, systems integration and data monitoring
- Up to eight scales supporting five scale types:
 - Analog load cell scales
 - Total scales
 - Serial scales
 - Program scales
 - iQube2 scales
- Multi-range/interval weighing functions
- Eight digital I/O for control and pulse count
- 100 setpoints, 18 configurable setpoint types
- 22 soft keys with 10 user-defined
- Two RS-232 and RS-485 serial ports
- USB, Ethernet TCP/IP, Wi-Fi Direct and Bluetooth® ports

Options

- Six option slots that support:
 - A/D scale channels
 - Analog Input/Thermocouple
 - · Digital input and outputs
 - Analog outputs
 - · Serial ports
 - Four channel dry-contact relay
 - Various protocol interfaces

Additional models are available with the approvals shown below. Please consult the factory for part numbers.





Specifications

Power:

AC voltages: 100-240 VAC; 50-60 Hz

DC voltages: 11-30 VDC Consumption: 60 W

Excitation Voltage: 10 ± 0,5 VDC

16 x 350 Ω or 16 x 700 Ω 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–120 Hz 1,0 μV/graduation recommended

A/D Sample Rate:

7,5 to 960 Hz, software selectable

Resolution:

Internal: 8 million counts/8.000.000 Display: Seven digits/1.000.000

System Linearity

± 0,01% full scale

Digital I/O:

Approvals*

* Touch-only units

pending approvals

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) Port 4: Bluetooth* SPP 2.1+EDR

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 ophoard database (SOI ite) storage

460 MB onboard database (SQLite) storage Up to 32 GB micro SD card (sold separately)

Display:

178 mm, 800 x 480 pixel, graphical color TFT display 500 or 1000 NIT 305 mm, 1280 x 800 pixel, graphical color TFT display 1500 NIT

Keys/Buttons:

22-key membrane panel, tactile buttons, onscreen keyboard for text and numeric entry, USB port for flash drive, keyboard and printer

Temperature Range:

Certified: -10°C to 40°C Operating: -20°C to 55°C

Weight:

Universal enclosure: 5 kg Panel mount enclosure: 4 kg Wall mount enclosure: 10 kg

Panel mount 178 mm touch-only enclosure: 3 kg Panel mount 305 mm touch-only enclosure: 5 kg

Rating/Material:

Stainless steel 304 enclosure Universal: IP69K Wall mount: IP66

Panel mount: IP69K, NEMA Type 4X and 12

Warranty:

Two-year limited warranty

EMC Immunity:

EN 50082 Part 2 IEC EN 61000-4-2, 3, 4, 5, 6, 8, and 11

Approvals:

NTEP CC 15-00/Class III/IIIL 10,000d Measurement Canada AM-5980C, Class III/III HD 10,000d OIML R76/2006-NL1-16.04 Class III/IIII 10,000d EU Test Certificate TC8596 UL/cUL Listed (universal) UL/cUL Recognized (panel mount) CF Marked

148







7-inch model with keypad

7-inch touch-only model

12-inch touch-only model

Numeric Keypad Models:

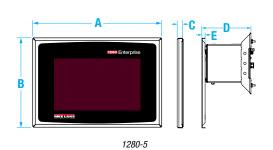


Universal (1280-2) Dimensions					
Α	276 mm	В	158 mm		
С	235 mm	D	126 mm		
Ε	229 mm	F	318 mm		
G	133 mm				

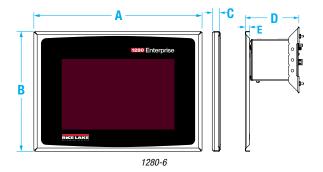
Wa	Wall Mount (1280-3) Dimensions				
Α	379 mm	В	279 mm		
С	463 mm	D	479 mm		
Ε	499 mm	F	361 mm		
G	205 mm				

A 229 mm B 229 mm	
C 15 mm D 136 mm	
E 8 mm	

Touch-only Models:



7-	7-inch Touch-only (1280-5) Dimensions				
Α	9.00 in (229 mm)	В	6.22 in (158 mm)		
С	0.58 in (15 mm)	D	5.34 in (136 mm)		
E	0.32 in (8 mm)				



12-inch Touch-only (1280-6) Dimensions				
Α	14.00 in (356 mm)	В	10 in (254 mm)	
С	0.58 in (15 mm)	D	5.34 in (136 mm)	
Ε	0.32 in (8 mm)			

Generate a 1280 Enterprise Series Model Reference CodeThis reference number can be used at time of ordering.

ENCLOSURE TYPE POWER TYPE DISPLAY TYPE CORD TYPE OPTION CARDS ALL SLOTS MUST BE FILLED 1 500NIT 1 Universal (1280-2) 1 AC 1 NEMA 5-15 A Blank Analog Input 7 in Unviersal Universal If no option, controller will 2 DC J EtherNet/IP ² Panel (1280-4) need 6 blanks 2 1000NIT 7 in Universal - None 3 Wall (1280-3) K DeviceNet B Single A/D Scale 3 CEE 7/7 Touch-only Panel 7 in (1280-5) 3 500NIT C Dual A/D Scale Universal 7 in Panel/Wall M Modbus TCP 4 NEMA 5-15 D 24 Channel Digital I/0 5 Touch-only Panel 12 in (1280-6) 4 1000NIT Wall N Profibus DP E Dual Serial Channel 7 in Panel/Wall 5 CEE 7/7 EtherCat 5 1500NIT F 4-dry Contact Relay Wall 12 in Panel PowerLink G Single Analog Out H Dual Analog Out

Part Number

· all itali						
Part #	Reference #	Description	Power	Display	Option Installed	Price
Universal Encl	osure with 500 NIT Dis	splay (1280-2)				
171441 ^{††}	1131BAAAAA	1280 Universal	100-240 VAC	500 NIT	Single Scale Card	Consult
172188 ^{††}	1131CAAAAA	1280 Universal	100-240 VAC	500 NIT	Dual Scale Card	Consult
Panel Mount E	inclosure with 500 NIT	Display (1280-4)				
171663*	21-3BAAAAA	1280 Panel Mount	100-240 VAC	500 NIT	Single Scale Card	Consult
172186*	21-3CAAAAA	1280 Panel Mount	100-240 VAC	500 NIT	Dual Scale Card	Consult
Wall Mount En	closure with 500 NIT I	Display (1280-3)				
174143 ^{††}	3153BAAAAA	1280 Wall Mount	100-240 VAC	500 NIT	Single Scale Card	Consult
174145 ^{††}	3153CAAAAA	1280 Wall Mount	100-240 VAC	500 NIT	Dual Scale Card	Consult
Wall Mount En	closure with 1000 NIT	Display (1280-3)				
172185 ^{††}	3154BAAAAA	1280 Wall Mount	100-240 VAC	1000 NIT	Single Scale Card	Consult
172187 ^{††}	3154CAAAAA	1280 Wall Mount	100-240 VAC	1000 NIT	Dual Scale Card	Consult
Touch-only 7 i	nch with 500 NIT Disp	lay (1280-5)				
186618 *	41-3BAAAAA	1280 Touch-only 7 in	100-240 VAC	500 NIT	Single Scale Card	Consult
Touch-only 12	inch with 1500 NIT Di	splay (1280-6)				
186465 *	51-5BAAAAA	1280 Touch-only 12 in	100-240 VAC	1500 NIT	Single Scale Card	Consult

^{*} Power cable not included



() †† CEE 7/7 plug (Euro)

Data Exchange with PLC/DCS Systems

Single A/D Scale

Dual A/D Scale



Excitation Voltage:10 VDC bi-polar, 4 or 6 wire sensing 16 x 350 ohms per channel

10 VDC bi-polar, 4 or 6 wire sensing 8 x 350 ohms per channel **Analog Input Signal:**

Description

Dual scale A/D

A/D sealing kit

Analog Input Signal:

Excitation Voltage:

-10 to +40 mV

Part #

164683

166957

-10 to +40 mV

Part #	Description	Price
164085	Single scale A/D	Consult
166957	A/D sealing kit	Consult

EtherNet/IP

Part #	Description	Price
165792	EtherNet/IP	Consult

DeviceNet



Part #	Description	Price
165793	DeviceNet	Consult

Profinet

Price

Consult

Consult



Part #	Description	Price
165794	Profinet	Consult

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	Consult
170008	DIO adapter, includes 60 pin flat ribbon cable, 24 in	Consult
170009	DIO adapter, includes 60 pin round cable, 60 in	Consult
170736	DIO adapter, includes 60 pin cable and cord grip, 60 in	Consult

For 24 I/O ribbon cable required.

Modbus TCP



Description	Price
Modbus TCP	Consult
	

Profibus DP



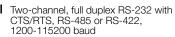
Part #	Description	Price
165795	Profibus DP	Consult

EtherCAT



Part #	Description	Price
179533	EtherCAT	Consult

Dual Serial Channel



	MENTER REPORT
1	SATAL ARGON
100	SERVEL COMM

Part #	Description	Price
164685	Dual serial channel	Consult

PowerLink



Part #	Description	Price
182319	PowerLink	Consult

Single Analog Out

16 bit, voltage output 0-10 VDC,current output 0-20mA, 4-20mA



Part #	Description	Price
165366	Single analog out	Consult

Dual Analog Out

16 bit, voltage output 0-10 VDC, current output 0-20mA, 4-20mA



Part #	Description	Price
164686	Dual analog out	Consult

Relay Card

Relay four-dry contact, max current 3A @ 30 VDC, 3A @250VAC



Part #	Description	Price
164689	Relay card	Consult

Analog Input



Analog Input Signal: ±10 VDC, ±100 mV, 0-20 mA

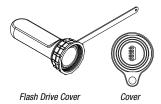
Part #	Description	Price
164687	Dual analog input	Consult

Gravhill Relays and Racks

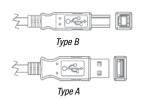
, .	illi Kelays ara Kacks	
Part #	Description	Price
52332	Two-channel input relay, 2.5-28 VDC	Consult
52318	Two-channel input relay, 120 VAC	Consult
52319	Two-channel input relay, 240 VAC	Consult
52331	Two-channel input relay, 10-32 VDC	Consult
52316	Two-channel output relay, 120-140 VAC at 2 amp	Consult
52317	Two-channel output relay, 240-280 VAC at 7 amp	Consult
71376	Two-channel output relay, 3-60 VDC at 1 amp	Consult
71377	Two-channel output relay, 0-200 VDC/VAC at 1,5A/10W (dry contact)	Consult
84698	Two-channel output relay, inductive load, 120-140 VAC at 2A	Consult
84699	Two-channel output relay, inductive load, 240-280 VAC at 2A	Consult
52312	Eight-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 4 slots	Consult
52314	16-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 8 slots	Consult
52315	24-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 12 slots	Consult
170008	Cable, 60-Pin flat ribbon with 50-Pin adapter, 610 mm length	Consult
170009	Cable, 60-Pin round with 50-Pin adapter, 1.524 mm length	Consult
170736	Cable, 60-Pin round with cord grip and 50-Pin adapter, 1.524 mm length	Consult

Options

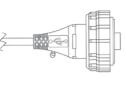
Part #	Description	Price	
Manuals	Manuals and Software		
77925	Revolution scale software	Consult	
166046	Manual, Operation	Consult	
167659	Manual, Technical	Consult	
167660	CD, 1280 Documents	Consult	
164939	8 GB Micro SD card with SD and USB adapter	Consult	
173046	USB flash drive, 1 GB	Consult	

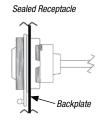


Unsealed Connectors









Options

Part #	Description	Price
Primary C	omponent Parts	
163400	7 in 500 NIT display	Consult
163399	7 in 1000 NIT display	Consult
182992	12 in 1500 NIT display	Consult
179992	CPU board assembly includes face plate & fan plate	Consult
160758	Back Plane board	Consult
162693	AC power supply board	Consult
162694	DC power supply board	Consult
164121	Overlay, keypad, for panel & wall mount	Consult
164120	Overlay, touchscreen, for panel & wall mount	Consult
161731	Overlay, keypad, for universal	Consult
161730	Overlay, touchscreen, for universal	Consult
178498	Overlay, touchscreen, for 7 in touch-only panel mount	Consult
176126	Overlay, touchscreen, for 12 in touch-only panel mount	Consult
178161	Clear protective overlay display (pack of 5)	Consult
178163	Clear protective overlay keypad (pack of 5)	Consult

Part #	Description	Co	nnec	tor Ty	pe	Price
USB Cabl	es (Note: Cables have a	Sea	iled	Unse	aled	
plug)		Α	В	Α	В	
152434	Unsealed connectors USB-A to USB micro A, 2 m cable			х		Consult
79074	Unsealed connectors USB-A to USB-B, 2 m cable			Х	Х	Consult
124700	Sealed connectors, USB-A to USB-B, 3 m IP68 cable	Х	Х			Consult
126477	Sealed connector USB-A to unsealed connector USB-A, 3 m IP68 cable	X		Х		Consult
124701	Sealed connector USB-A to unsealed connector USB-B, 3 m IP68 cable	X			Х	Consult
124702	Sealed connector USB-B to unsealed connector USB-A, 3 m IP68 cable		Х	Х		Consult
USB Rece	eptacles (Note: Receptacles h	ave a	sock	et)		
176790	Sealed receptacle USB-A for panel mount, 0,75 m cable	Х		Х		Consult
126476	Sealed receptacle USB-A for wall mount, 0,5 m cable	Х		Х		Consult
172735	Sealed receptacle USB-A for universal, 0,25 m cable	Х		Х		Consult
124694	Cover for sealed receptacles					Consult
124689	Cover for flash driver mounts					Consult
Ethernet	Cables	Sea	iled	Unse	aled	
72697	Unsealed Ethernet, RJ45 to RJ45, 2 m cable			X	(Consult
124706	Sealed to sealed Ethernet 3 m cable)	(Consult
124707	Sealed to unsealed Ethernet 3 m cable)	(X	(Consult
Ethernet	Receptacles	Sea	iled	Unse	aled	
176789	Sealed receptacle Ethernet RJ-45, 0,75 m cable)	(Consult
172734	Sealed receptacle Ethernet RJ-45, 0,5 m cable		(Consult
126353	Sealed receptacle Ethernet RJ-45, 0,25 m cable)	(Consult

920i® User Programs

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.

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.

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.



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.

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.

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	Consult
SZ99999	Truck in/out with report	Consult
77297	Truck in/out with products/customers/trucks and reports	Consult
156886	Grain program with shrink calculation	Consult
156959	Dual kiosk truck in/out single scale	Consult

Please consult factory for hardware suggestions

920i° FlexWeigh Systems

Fillers/Batchers



Standard Features

- · Wall mount stainless steel enclosure
- Application program 101, 102, 103, 104, 201, 202
- Front panel switches E-Stop, Reset/Resume, Start
- Softkeys for presets, CN#, ID#, formula#, totals
- · Accumulating subtotal & 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	Х	Х	Х	Х	X	Х
Reset/resume	X	X	X	X	X	X
Start	Х	Х	Х	Х	X	X
Discharge	-	Х	-	-	-	Х

Standard Outputs	101	102	103	104	201	202
Fast fill**	Х	Х	Х	Х	Х	X
Slow fill***	Х	Х	Х	Х	Х	X
Fill complete*	OPT	OPT	Х	Х	OPT	0PT
Zero tolerance	OPT	OPT	-	-	OPT	0PT
Discharge	-	Х	-	-	-	X
Refill	-	-	Х	-	-	-
Refill complete	-	-	OPT	-	-	-
Slow cycle	-	-	0PT	X	-	-

^{*} Dispense for 103 and 104

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

Approvals

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.

^{**} Fast Fill Ingredient 1 201/202 *** Fast Fill Ingredient 2 201/202

920i° FlexWeigh SystemsFillers/Batchers

Part Number/Price

Part #	Description	Est. Weight	Price
Consult	920i FlexWeigh Systems 101	10,4 kg	Consult
Consult	920i FlexWeigh Systems 102	10,4 kg	Consult
Consult	920i FlexWeigh Systems 103	10,4 kg	Consult
Consult	920i FlexWeigh Systems 104	10,4 kg	Consult
Consult	920i FlexWeigh Systems 201	10,4 kg	Consult
Consult	920i FlexWeigh Systems 202	10,4 kg	Consult
Relays			
52312	Eight-channel relay rack (4 slots)		Consult
52316	Two-channel output relay, 120 - 140 VAC at 2A		Consult
52317	Two-channel output relay, 240-280 VAC at 2A		Consult

Options/Accessories

Part #	Description	Price
120491	920i FlexWeigh Systems 101 manual	Consult
120493	920i FlexWeigh Systems 102 manual	Consult
124473	920i FlexWeigh Systems 103 manual	Consult
120496	920i FlexWeigh Systems 104 manual	Consult
152146	920i FlexWeigh Systems 201/202 manual	Consult

Optional Switches

	Switch Part #	Legend Part #	101	102	103, 104	201	202
Selector 3 position	94296						
Manual/ Off/ Auto		121035	X	Х	X	Х	Х
Manual Ingredient Select						Х	X
Push-button	94276						
Fill		121036	X	Х		Х	X
Discharge		121037		Х			Х
Dispense		121038			X		
Refill		121039			X		
Maintained/Off/Spring Return	94299						
Fill On/-/Jog		121040	X	Х		Х	X
Fill Fast/-/Slow		121041	X	Х		Х	X
Discharge On/-/Jog		121043		Х			Х
Discharge Fast/-/Slow		121044		Х			Х
Dispense On/-/Jog		121046			X		
Dispense Fast/-/Slow		121048			X		
Refill On/-/Jog		121049			Х		
Manual Feed		<u> </u>				Х	X

Optional Front Panel Lights

	Lamp	Legend	101, 102	103	104	201	202
Ready	94289 Green	121051	Х			Х	Х
Fill Complete	94290 Red	121052	X			Х	Х
Filling	98760 Amber	121053	X				
Filling Fast	98760 Amber	121054	X				
Filling Slow	98760 Amber	121055	X				
Discharging	94292 Blue	121056	X			X	Х
Discharging Fast	94292 Blue	121057	X				
Discharging Slow	94292 Blue	121058	X				
Dispensing	98760 Amber	121059		Χ	X		
Dispensing Fast	98760 Amber	121060		Χ	X		
Dispensing Slow	98760 Amber	121061		Χ	Х		
Dispensing Complete	94290 Red	121062		Χ	Х		
Refilling	94292 Blue	121063		Х			
Refill Complete	94290 Red	121064		Χ			
Low Supply	94290 Red	121065		Χ	Х		
Fill Time Alarm	94290 Red	121066		Χ	Х		
Feeding (1-4)	98760 Amber	_				Х	Х
Slow Cycle	94290 Red	<u> </u>	X	Х	Χ		
Gate Fault	94290 Red	<u> </u>	X	Χ	Х		
Scale Overfill	94290 Red		Х	Χ	Х		
Surge Backup	94290 Red	<u> </u>	Х	Х	Х		
Printer	94290 Red	<u> </u>	Х	Χ	Х		

920i® FlexWeigh Systems

Bulkweighers



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

Standard Switches	107	108	109
E-Stop mushroom	Х	Х	X
Start/Resume	Х	Х	X
End cycle	Х	Х	X
Ship/Recv	-	-	Х

Standard Inputs	107	108	109
Fill gate closed	Χ	Х	Χ
Discharge gate closed	Х	Х	Х
Surge hopper not full	Χ	Х	Χ
Weigh hopper not full	Χ	Χ	Χ
Printer online	Χ	X	X

Standard Outputs	107	108	109
Slow cycle alarm	0PT	OPT	0PT
Gate alarm	0PT	OPT	0PT
Scale over fill alarm	0PT	OPT	OPT
Lower surge alarm	0PT	OPT	0PT
Printer alarm	OPT	OPT	OPT
Open fill gate	Х	Х	Х
Open discharge gate	Χ	Х	Χ

Approvals

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.

Options/Accessories

Part #	Description	Price
151848	920i FlexWeigh Systems 107/108/109 manual	Consult

Optional Switches Installed Price: Consult

	Туре	107	108	109
Manual/Off/ Auto	3-position key selector	Х	Х	Х
Man Fill On/-/Jog	Maintained/Off/		X	х
Man Disch On/-/Jog	Spring Return		Х	х

Options

- · Pilot lights for error indication
- Manual override switches

Part Number/Price

Part #	Description	Est. Weight	Price
Consult	920i FlexWeigh Systems 107	10,4 kg	Consult
Consult	920i FlexWeigh Systems 108	10,4 kg	Consult
Consult	920i FlexWeigh Systems 109	10,4 kg	Consult

920i° FlexWeigh Systems Flow Rate Controllers

Approvals

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.

205 Eight Ingredient **Batcher with Flow-Rate Control Discharge**

Batch up to eight ingredients in sequential order to preset formula weights. Discharge to net quantities via preset flow-rate control.

Standard Switches/Outputs

Standard Switches	105	106	205
E-Stop mushroom	Χ	X	X
Reset/Resume	Χ	X	X
Start	Х	Х	Х
Discharge	-	-	X

Outputs	105	106	205
Fast fill**	Х	-	Х
Slow fill***	Х	-	Х
Fill complete*	X	-	X
Zero tolerance	Opt	-	0pt
Discharge	Χ	X	X
Refill	-	X	-
Refill complete	-	Opt	
Slow cycle	Opt	Opt	Opt

^{*} Dispense for 105 and 106

211 Manual Batching System

Prompts the user through manual weight additions based on a pre-entered formula





Standard Features

- · Wall mount stainless steel enclosure
- Application program 105, 106, 205
- Front panel switches E-Stop, Reset/Resume, Start
- Softkeys for presets, CN#, ID#, formula#, totals
- · Accumulating subtotal & total registers
- · Transmitted audit trail
- · Digital I/O board
- · Relay rack and SSR relay outputs

Part Number/Price

Part #	Description	Est. Weight	Price
Consult	920i FlexWeigh Systems 105	10,4 kg	Consult
Consult	920i FlexWeigh Systems 106	10,4 kg	Consult
Consult	920i FlexWeigh Systems 205	10,4 kg	Consult
Relays			
52312	Eight-channel relay rack (4 slots)		Consult
52316	Two-channel output relay, 120 - 140 VAC at 2A		Consult
52317	Two-channel output relay, 240-280 VAC at 2A		Consult

Options/Accessories

Part #	Description	Price
Consult	920i FlexWeigh Systems 105 manual	Consult
Consult	920i FlexWeigh Systems 106 manual	Consult
Consult	920i FlexWeigh Systems 205 manual	Consult

920i® FlexWeigh Systems Hand Batching



Manufacturer-Approved DIRECT REPLACEMENT FOR FLEXWEIGH'S DWM-IV

Standard Features

- Stainless deep universal mount enclosure
- Application program 211
- 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

Part Number/Price

Part #	Description	Est. Weight	Price
Consult	920i Flexweigh Systems 211	5.9 kg	Consult





^{**} Fast Fill Ingredient 1 205 *** Fast Fill Ingredient 2 205

											I	ı		

Specifications

Enclosure:

NEMA 4, IP65

Weight:

Keypad:

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

Display: Six-digit 26,4 mm LCD Units Displayed:

Pounds, kilograms, tons, metric tons, kilonewtons

Annunciators:

Stable, COZ, low battery, peak, net, kg, kN, lb, M, ton, setpoint, function LEDs

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)

Operating Temperature:

-20° C to 60° C

RF Radio Link:

2,4 GHz 802.15.4

Communicates with RF 3460, 4260, 7300, 7000

RF Effective Range:

Typically 33 m

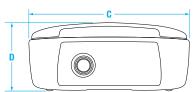
Connector:

4-Pin Turck connector for charging and RS-232 communication

Warranty:

One-year limited







Standard Features

- Handheld RF remote display with six-digit 26,4 mm LCD screen
- 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)
- Communicates with RF 4260, 7300, 7000 & 7001

Part Number/Price

Part #	MSI Part #	Description	Price
139381	503208-0001	MSI-8000 RF remote display (requires ScaleCore™ equipped MSI-7300, MSI-4260, MSI-3460 and TranSend receivers)	Consult

Part #	MSI Part #	Description	Price
149550	503486-0002	Universal 115/230 VAC 50/60 Hz (EC plug standard) battery charger for MSI 8000 RF remote display	Consult
150964	503489-0001	DB9 female serial interface cable for MSI-8000 RF remote display	Consult
151095	503506-0001	Audible alarm	Consult
182223		12V car charger adapter for MSI-8000	Consult

Dim	ensions		
Α	203 mm	С	98 mm
В	98 mm	D	35 mm



Standard Features

- · Indicator or RF remote display with six-digit 26.4 mm LCD screen
- IP68 milled aluminum enclosure
- · Membrane keypad for remote-control functionality
- · User definable function keys for added versatility
- Compatible with all ScaleCore $^{\mathsf{TM}}$ -based products including: MSI-7300 Dyna-Link 2, MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001
- · Swivel tilt stand

Optional Features

- Up to 8 configurable relay outputs
- · Wi-Fi communications
- · Bluetooth® communications
- 802.15.4 Serial RF
- FHSS

Specifications

Enclosure:

NEMA 4, IP68 milled anodized aluminum with 0-ring gaskets

Kevpad:

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

Display:

Six-digit, 26,4 mm

Units Displayed:

Pounds, kilograms, tons, metric tons, kilonewtons

Annunciators:

Stable, COZ, peak, kg, kN, lb, M, ton, setpoint, function LEDs. Channels: 1, 2, 3, 4, TTL

Power:

Approvals

90-267 VAC, 9-36 VDC, 18-72 VDC, 120-300 VDC Optional battery power module available

Operating Temperature:

-20° C to 60° C

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

Excitation:

4,8 V current limited and over-voltage protected

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 33 m

Data I/0:

Dual RS-232 comm ports

Wired Ethernet:

Up to 8 configurable relay outputs

Optional Communications:

Wi-Fi

Bluetooth®

Serial RF, Frequent Hopping Spread Spectrum Optional

Warranty: One-year limited warranty

Approvals:

NTEP COC#15-110

MSI-8000HD Indicator/Remote Display

Part Number/Price

Part #	Description	Est. Weight	Price
153591	MSI 8000HD ScaleCore RF/Remote Display/85-265 VAC	2.5 kg	Consult
154853	MSI 8000HD ScaleCore RF/Remote Display/Internal Battery	2.5 kg	Consult
160476	MSI 8000HD ScaleCore RF/Remote Display/7-36 VDC	2.5 kg	Consult
159377	MSI 8000HD ScaleCore RF/Remote Display/18-72 VDC	2.5 kg	Consult
159376	MSI 8000HD ScaleCore RF/Remote Display/9-36 VDC	2.5 kg	Consult
158427	MSI 8000HD Meter/2 A/D Inputs/85-265 VAC (non RF)	2.5 kg	Consult
158428	MSI 8000HD Meter/2 A/D Inputs/Internal Battery (non RF)	2.5 kg	Consult
160478	MSI 8000HD Meter/2 A/D Inputs/7-36 VDC (non RF)	2.5 kg	Consult
159381	MSI 8000HD Meter/2 A/D Inputs/18-72 VDC (non RF)	2.5 kg	Consult
159380	MSI 8000HD Meter/2 A/D Inputs/9-36 VDC (non RF)	2.5 kg	Consult
158425	MSI-8000HD RF Meter/2 A/D Inputs/85-265 VAC	2.5 kg	Consult
158426	MSI-8000HD RF Meter/2 A/D Inputs/Internal Battery	2.5 kg	Consult
160477	MSI 8000HD RF Meter/2 A/D Inputs/7-36 VDC	2.5 kg	Consult
159379	MSI 8000HD RF Meter/2 A/D Inputs/18-72 VDC	2.5 kg	Consult
159378	MSI 8000HD RF Meter/2 A/D Inputs/9-36VDC	2.5 kg	Consult
176957 *	MSI 8000HD BT Meter/Remote Display/85-265 VAC	2.5 kg	Consult
176958	MSI 8000HD Wi-Fi Meter/Remote Display/85/265 VAC	2.5 kg	Consult
176959 *	MSI 8000HD BT/Remote Display/Internal Battery	2.5 kg	Consult
176960	MSI 8000HD Wi-Fi/Remote Display/Internal Battery	2.5 kg	Consult
176962 *	MSI 8000HD BT/Remote Display/7-36 VDC	2.5 kg	Consult
176964	MSI 8000HD Wi-Fi/Remote Display/7-36 VDC	2.5 kg	Consult
176965 *	MSI 8000HD BT/Remote Display/9-36 VDC	2.5 kg	Consult
176966	MSI 8000HD Wi-Fi/Remote Display/9-36 VDC	2.5 kg	Consult
176967 *	MSI 8000HD BT/Remote Display/18-72 VDC	2.5 kg	Consult
176968	MSI 8000HD Wi-Fi/Remote Display/18-72 VDC	2.5 kg	Consult

^{*} Bluetooth modems only work with certain Android devices. Please contact office for potential applications.

Part #	Description	Price
155173	MSI-8000HD spare tilt stand option kit	Consult
155193	MSI-8000HD Ethernet TCP/IP option kit wired	Consult
148624	MSI-8000HD serial RS-232 cable	Consult
158779	MSI-8000HD two each coil relay option kit, 250 VAC/30 VDC 5A or 100 VDC 0,4A	Consult
158780	MSI-8000HD two each solid state relay option kit, 60 Vpk 2,7A	Consult
158781	MSI-8000HD two each solid state relay option kit, 200 Vpk 0,9A	Consult
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000HD battery powered device	Consult
149550	Universal 115/230 VAC 50/60 Hz (international plugs) battery charger for MSI-8000HD battery powered device	Consult
Relays		
172490	Expanded Relay Kit, Four-Channel, 12A 5V, Latching Relays	Consult
172492	Expanded Relay Kit, Four-Channel, 12A 5V, Momentary Relays	Consult
172493	Expanded Relay Kit, Four-Channel, 3A 60Vpk, AC/DC Solid State Relays	Consult
172494	Expanded Relay Kit, Four-Channel, 0,9A 200Vpk, AC/DC Solid State Relays	Consult
172495	Expanded Relay Kit, Eight-Channel, 12A 5V, Momentary Relays	Consult
172497	Expanded Relay Kit, Eight-Channel, 3A 60Vpk, AC/DC Solid State Relays	Consult
172498	Expanded Relay Kit, Eight-Channel, 0,9A 200VPK, Solid State Relays	Consult
172500	Expanded Relays Option Kit, Four-Channel, 3A, 60Vpk Solid State Form C Relays	Consult
172501	Expanded Relays Option Kit, Eight-Channel, 3A 60Vpk, Solid State Form C Relays	Consult
172502	Expanded Relays Option Kit, Eight-Channel, 0,9A 200Vpk, Solid State Form C Relays	Consult
171676	Expanded Relays Option Kit, Eight-Channel, 12A 5V, Latching Relays	Consult

MSI-8004HD

Indicator/RF LED Remote Display

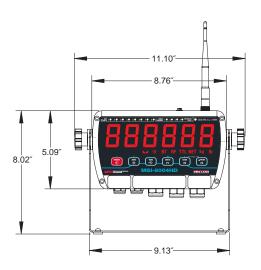


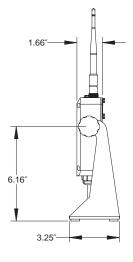
Standard Features

- IP65 rugged milled aluminum enclosure
- · Backlit membrane keypad for user functioning and controls
- Tilt bracket included

Options

- · Expanded relay outputs
- · Battery pack for mobile operation
- · 2nd radio module for additional network connectivity





Specifications

DisplaySix-digit, 38 mm LED display with red/green or blue coloring

Enclosure:

NEMA Type 4, IP65 milled anodized aluminum

Keypad:

On/Off, Zero, Tare, Print and two user-defined keys

Functions:

Peak hold, high resolution, total, view total, net/ gross, units switching

Units:

Pounds, kilograms, tons, metric tons, kilonewtons

Annunciators:

Stable, COZ, peak, kg, kN. lb, M, ton, setpoint, function LEDs

Channels:

1, 2, 3, 4, TTL

Power:

Approvals

Measurement Canada Approved

90-267 VAC, 9-36 VDC, 18-72 VDC, 120-300 VDC

Temperature:

-20° C to 60° C

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:

Four independent or summing load cell inputs

Excitation:

4,8 V current limited and over-voltage protected

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, cellular connectivity or Bluetooth⁶

RF Effective Range:

Typically 91,44 m line of sight

Data I/0:

Two RS-232 hard wired communication ports

Approvals:

NTEP COC #17-036, Measurement Canada

Warranty:

One-year limited warranty

Part Number/Price

Indicator		
Part #	Description Description	Price
178263	MSI-8004HD Indicator, 4CH AC, Blue 85~264VAC, 47~440 Hz, 120~370VDC	Consult
178265	MSI-8004HD Indicator, 4CH AC, Red/Green 85~264VAC, 47~440 Hz, 120~370 VDC	Consult
178267	MSI-8004HD Indicator, 4CH DC 8-32V, Blue Best for external 12V SLA Batteries	Consult
178269	MSI-8004HD Indicator, 4CH DC 8-32V, Red/Green Best for external 12V SLA Batteries	Consult
178270	MSI-8004HD Indicator, 4CH DC 9-36V Iso, Blue Do not use on 12V Vehicle Systems	Consult
178271	MSI-8004HD Indicator, 4CH DC 9-36V Iso, Red/Green Do not use on 12V Vehicle Systems	Consult
183480	MSI-8004HD Indicator, 4CH DC 5V Blue, 38,1 mm LED Display For use with external 15W, 5V Power Supplies	Consult
183481	MSI-8004HD Indicator, 4CH DC 5V Red/Green 38,1 mm LED Dual Color Display For use with external 15W, 5V Power Supplies	Consult
Remote Disp	olay	
178279	MSI-8004HD Display, AC, Blue 85~264 VAC, 47~440 Hz, 120~370 VDC	Consult
178281	MSI-8004HD Display, AC, Red/Green 85~264 VAC, 47~440 Hz, 120~370 VDC	Consult
178282	MSI-8004HD Display DC, 8-32V, Blue Best for external 12 V SLA Batteries	Consult
178283	MSI-8004HD Display, DC 8-32V, Red/Green Best for external 12 V SLA Batter	Consult
178284	MSI-8004HD Display, DC 9-36V Iso, Blue Do not use on 12 V Vehicle Systems	Consult
178285	MSI-8004HD Display, DC 9-36V Iso, Red/Green Do not use on 12 V Vehicle Systems	Consult
183478	MSI-8004HD Display, DC 9-36V Iso, Blue, 38,1 mm LED Display Do not use on 12 V Vehicle Systems	Consult
183479	MSI-8004HD Display, DC 9-36V Iso, Red/Green, 38,1 mm Dual Color LED Display Do not use on 12 V Vehicle Systems	Consult

Options

Part #	Description	Price
148624	Serial Cable, RS-232 9000 Serial Cable, DCE	Consult
139309	Antenna Kit, Long Range Omni-directional, 9 dBi with 3 m Coax Intended for omni-directional mast mounting (up to 51 mm Ø). Beam-width. Must be mounted vertically.	Consult
139310	Antenna Kit, Corner Reflector, 9 dBi with 3 m coax intended for directional wall or mast mounting (up to 51 mm Ø). Beam-width: 75° Elevation, 65° Azimuth	Consult
139311	Antenna Kit, Corner Reflector, 12 dBi with 3 m coax intended for directional wall or mast mounting (up to 51 mm Ø). Beam-width: 50° Elevation, 36° Azimuth	Consult
139312	Antenna Kit, YAGI, 15 dBi with 3 m coax highly directional wall or mast mounting (up to 51 mm Ø). Beam-width: 30° Elevation, 34° Azimuth	Consult
139313	Antenna Kit, Vehicle Mount, 5 dBi with 5 m coax omni-directional. Mounts in 19,1 mm Hole.	Consult
155173	Option kit, tilt stand	Consult
155193	Option kit, Ethernet (hard wired) RJ-45 Cable (included)	Consult
171203	Audible alarm Not compatible with battery versions 22436	Consult
22436	Cable, Comm DB9F 9 Pin Fem One end stripped and tinned on other end 6 Pin 2 (Brown) Pin 3 (Red) Pin 5 (Yellow) For use with MSI-8004HD serial ports to connect to: Scoreboard displays, printers, computers & other equipment that supports RS-232	Consult
183437	Battery, 5V Li-ion battery with USB power ports. Output 5V/3,0A per port (6,0 A max)Rate, 2A per port (4A if both ports are used)	Consult
184132 *	8004 option kit, Bluetooth® with SMA antenna	Consult
184131	8004 option kit, WiFi with SMA antenna	Consult
182224	Power Adapter, 12VDC 5VDC Dual USB Car Charger plus 0,9 m USB Cable	Consult
Relays		
172500	Expanded Relays Option Kit, four-channel, 3A, 60VPK SSR form C	Consult
172501	Expanded Relays Option Kit, eight-channel, 3A 60VPK, SSR form C	Consult
172493	Expanded Relays Option Kit, four-channel, 3A 60VPK, AC/DC SSR	Consult
172497	Expanded Relays Option Kit, eight-channel, 3A 60VPK, AC/DC SSR	Consult
172494	Expanded Relays Option Kit, four-channel, 0,9A 200VPK, AC/DC SSR	Consult
172502	Expanded Relays Option Kit, eight-channel, 0,9A 200VPK, SSR form C	Consult
172498	Expanded Relays Option Kit, eight-channel, 0,9A 200VPK, SSR	Consult
172492	Expanded Relays Option Kit, four-channel, 12A 5V, momentary	Consult
172495	Expanded Relays Option Kit, eight-channel, 12A 5V, momentary	Consult
172490	Expanded Relays Option Kit, four-channel, 12A 5V, latching relays	Consult
171676	Expanded Relays Option Kit, eight-channel, 12A 5V, latching relays	Consult

 $^{{\}it *Blue to oth modems only work with certain Android devices. Please contact of fice for potential applications.}$

882D Belt Scale Integrator



Standard Features

- · LCD display, seven-digit, seven-segment weight display, 3 x 20 pixelated prompt area
- · RS-232 or RS-485 serial port
- · USB device port connects directly to a PC
- Ethernet TCP/IP polled or continuous
- · AC or DC models
- · Hardware slot for two option card
- Operator functions through menu key for audit trail, preset tare, accumulator, time & date and setpoints
- Audit trail tracking for configuration and calibration changes. Password protection for user and configuration changes
- · Setpoints for control and alarms
- Four onboard digital I/O channels
- Four programmable ticket formats up to 1.000 characters
- · Filter settings for light, medium and heavy noise
- · Speed inputs

Specification Options

Analog Output:

16-bit resolution, 0-10 VDC, 0-20 mA, 4-20 mA

Relay Board:

Four dry contact relays; DC Max: 30 VDC at 3 amps AC max: 250 VAC at 3 amps per contact

EtherNet/IP Interface:

According to EN 50325-2

Profinet Interface:

According to IEC 61784 (CPF-3/3)

Modbus/TCP Interface:

Up to 8 bytes of I/O data, 100 Mbps full duplex Ethernet

DeviceNet Interface:

According to EN 50325-2

Profibus DP Interface:

According to EN 50170

EtherCAT

According to IEEE 802.3

Digital I/O

24 channel I/O expansion boards available

Specifications

Power:

Input voltages: 100-240 VAC; 9-36 VDC Input frequency: 47-63 Hz

Power Consumption:

AC: 15 watts; DC: 20 watts

Excitation Voltage:

10 VDC 8 x 350 Ω (16 x 700 Ω) load cells;

Analog Signal Input Range:

-45 mV to 45 mV

Analog Signal Sensitivity:

 $0,3 \mu V/graduation$ minimum at 7,5 Hz; 1,0 µV/graduation typical at 120 Hz

Sample Rate:

7,5 to 120 Hz, software selectable

Approvals

Internal: 8 million counts 23 bit weight display: 100.000

System Linearity: ± 0,01% full scale

Digital I/0:

Four I/O onboard primary keys, pseudo functions, batching functions

Circuit Protection:

18 KV, 10 V/meter

Communication Ports:

RS-232 full duplex or RS-485 half duplex; USB micro A/B connector 2.0; Ethernet TCP/IP

Pulse Input:

Dual inputs for redundancy

LCD display, seven-digit, seven-segment weight display, 3 x 20 pixelated prompt area

Status Annunciators:

Load, total, rate, speed, zero

Kevboard:

Flat membrane panel, tactile feel

Operating Temperature:

Industrial: -10° C to 50° C

Dimensions (W x H x D):

250,7 mm x 238,3 mm x 110 mm

Weight:

5 kg

Material:

Stainless steel

Rating:

IP66

Warranty:

Two-year limited warranty

Approvals:

CE Marked (pending) UL/c-UL Listed (pending)

882D Belt Scale Integrator

Part Number/Price

Part #	Description	Price
Integrators		
177708	120VAC	Consult
180847	220VAC Euro power cord	Consult
184683	9-36VDC	Consult

Part #	Description	Price
190527	882D option, digital I/O	Consult
190528	882D option, single analog out	Consult
190529	882D option, relay interface	Consult
Network Cards		
190530	882D option, Ethernet/IP	Consult
190531	882D option, DeviceNet	Consult
190532	882D option, ProfiNet	Consult
190534	882D option, Profibus	Consult
190533	882D option, Modbus TCP	Consult
190535	882D option, EtherCAT	Consult

SCT-1100 and SCT-2200

Signal Conditioning Transmitter/Indicator

APPROVALS
C (L)
US







EGAL TRADE RTIFIED

SCT1100-AN with Analog Output

L SCT2200 with EtherNet/IP Fieldbus Module

	SCT-1100 Specifications	SCT-2200 Specifications
Power	12/24 VDC,	12/24 VDC,
1 0 0 0 1	Power Consumption: 70 mA min – 100 mA max	Power Consumption: 70 mA min – 100 mA max
Excitation Voltage	5VDC, 120 mA, 8 x 350 Ω	5 VDC, 120 mA, 8 x 350 Ω
Analog Signal Input Range	± 39 mV	± 39 mV
Analog Cianal Canaitivity	0.03 µV/graduation minimum	0.03 µV/graduation minimum
Analog Signal Sensitivity	0.3 μV/graduation recommended	0.3 µV/graduation recommended
A/D Sample Rate	Four channel A/D 24-bit sigma-delta conversion,	One channel A/D 24-bit sigma-delta conversion,
A/D Salliple hate	up to 200 conv. /sec. auto select	up to 200 conv. /sec. auto select
Resolution	Internal resolution: 1.5 million counts	Internal resolution: 1.5 million counts
nesolution	Weight display resolution: 800,000	Weight display resolution: 800,000
Digital Inputs/Outputs	Two inputs: 12/24 VDC	Two inputs: 12/24 VDC
Digital iliputs/outputs	Two outputs:150 mA 48 VAC/ 150 mA 60 VDC	Two outputs:150 mA 48 VAC/ 150 mA 60 VDC
Serial Port (1) RS-485, (1) RS-232 (1) RS-485, (1) RS-232		(1) RS-485, (1) RS-232
Analan Outnut	Opt isolated, 16-bit	Opt isolated, 16-bit
Analog Output (if equipped)	0-20mA, 4-20mA (Maximum 350 ohm)	0-20mA, 4-20mA (Maximum 350 ohm)
(ii equippeu)	0-5VDC, 0-10VDC (Minimum 10,000 ohm)	0-5VDC, 0-10VDC (Minimum 10,000 ohm)
Display	Six-digit 0.51 in (13 mm), red LED	Six-digit 0.31 in (8 mm), red LED
Display	Annunciators: Net, center of zero, stability	Annunciators: Net, center of zero, stability
Keyboard	Five key, membrane panel, tactile feel	Five key, tactile feel
Reyboard	Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)	Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)
Temperature & Humidity	Working Temperature: -15° C to 40° C (5° F to 104° F)	Working Temperature: -10° C to 50° C (14° F to 122° F)
Temperature & numbers	Humidity: 85% non-condensing	Humidity: 85% non-condensing
Dimensions (W x H x D)	4.17 in x 3.54 in x 2.28 in	0.98 in x 4.52 in x 4.72 in
·	(106 mm x 90 mm x 58 mm)	(25 mm x 115 mm x 120 mm)
Weight	1 lb (0.5 kg)	1 lb (0.5 kg)
Rating/Material	NEMA Type 1 plastic pluggable connectors	NEMA Type 1 plastic pluggable connectors
Warranty	One-year limited warranty	One-year limited warranty

Standard Features

- Up to four independent scales or four load cell inputs
- Quick menu for real and theoretical calibration
- Red LED display (13mm) and six LEDs show active functions
- Standard DIN rail-mounting with power supply and enclosures
- Configurable calibration and setup parameters from keyboard
- Up to three calibration linearization points or three from the keyboard
- Reading of the net, gross and tare weights, clearing, semi-automatic and presettable tare, scale switch, setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, setting of APW in counting mode, simulation of key pressure

Standard Features

- HUB Mode connects up to 16 transmitters to one fieldbus
- Quick menu for real and theoretical calibration
- Red LED display with six-digits (8 mm) and six LEDs show active functions
- $\bullet\,$ Standard DIN rail mounting with power supply and enclosures
- Configurable calibration and setup parameters from keyboard
 Up to three calibration linearization points or three from the
- keyboard
- Reading of the net, gross and tare weights, clearing, semiautomatic and presettable tare, scale switch, setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, setting of APW in counting mode, simulation of key pressure, Modbus RTU
- Double RS-485 port for a quick network connection
- · Printer management on second serial port available
- Multi-range function allows for subdividing the scale capacity in two, each up to 3,000 divisions



	SCT-3300 Specifications
Power	Input: 20-28VDC Power consumption: 8W
Excitation Voltage	10 VDC, 170 mA, 6 x 350 Ω
Analog Signal Input Range	3.5 to 24 mV
Analog Signal Sensitivity	0.1 μV/graduation minimum 1.0 μV/graduation recommended
A/D Sample Rate	300 Hz
Resolution	System linearity: ± 0.01% full scale
Analog Output (if equipped)	Optoisolated 0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC (min 10,000 ohm)
Temperature & Humidity	Working temperature: 14° F to 122° F (-10° C to 50° C) Humidity: 85% non-condensing
Dimensions (W x H x D)	4.56 in x 3.72 in x 2.4 in (114 mm x 93 mm x 60 mm)
Weight	0.5 lb (0.2 kg)
Rating/Material	DIN rail mount: NEMA Type 1
Warranty	One-year limited warranty

Standard Features

- Powers up to six (350 ohm) load cells in parallel (with a 24-bit A/D converter)
- A/D converter 24-bit (16,000,000 points)
- 12-bit analog output: 0-20 mA, 4-20 mA, 0-10 V
- Mounting on Omega/DIN rail for back panel or junction box
- IP67-rated enclosed versions

SCT-1100, SCT-2200 and SCT-3300 Advanced Series Signal Conditioning Transmitter/Indicator

SCT-1100

Part Number/Price

	Description	Est. Weight	Price
182588	Indicator, SCT1100-AN four load cell input with analog output	0,5 kg	Consult

SCT-2200

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitt	ers		
182587	Indicator, SCT2200 for scale input to be used with fieldbus module	0.5 kg	Consult
182589	Indicator, SCT2200-AN Analog Output	0.5 kg	Consult
Fieldbus			
182592	Fieldbus, SCT2200,Profinet Module	0.5 kg	Consult
182594	Fieldbus, SCT2200, Wi-Fi Module	0.5 kg	Consult
182593	Fieldbus, SCT2200, Profibus Module	0.5 kg	Consult
182591	Fieldbus, SCT2200, EtherNet/IP Module	0.5 kg	Consult
182596	Fieldbus, SCT2200, DeviceNet Module	0.5 kg	Consult
182598	Fieldbus, SCT2200, EtherCAT Module	0.5 kg	Consult
182597	Fieldbus, SCT2200, CANopen Module	0,5 kg	Consult
182599	Cable (needed to connect SCT-2200 indicator to fieldbus module)	0,5 kg	Consult
Power Su	pply		
88792	12VDC 1.2 A DIN rail mounted power supply	0,5 kg	Consult
119244	24VDC 1.3 A DIN rail mounted power supply	0,5 kg	Consult

How to Order the SCT-2200

Order SCT-2200 transmitter.
Order fieldbus module (HUB mode connects up to 16 transmitters to one fieldbus module). Order cables: (Number of SCTs — 1) + (1 for Fieldbus).

SCT-3300

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitters			
188725	Indicator, SCT3300 four load cell input with analog output	0,5 kg	Consult

Power Supply

Part Number/Price

Part #	Description	Est. Weight	Price
88792	12VDC 1.2 A DIN rail mounted power supply	0,5 kg	Consult
119244	24VDC 1.3 A DIN rail mounted power supply	0,5 kg	Consult

SCT-100 Digital Weight Indicator



Standard Features

- · Five-key waterproof keypad
- Six-digit 20,0 mm LED screen with six LEDs showing active functions
- Selectable functions: high resolution x 10, net/gross, lb/kg conversion, accumulation, formulation, counting, hold, peak
- IP68, AISI304 stainless steel enclosure
- 212 x 169,5 x 91 mm, fitted with support bracket
- · Theoretical calibration
- · Panel mount ability with optional hardware

Part Number/Price

Part #	Description	Price
191650	SCT-100, 12-24VDC	Consult
191651	SCT-100, 12-24VDC, with analog output	Consult

Options/Accessories

Part #	Description	Price
185300	Alibi memory	Consult
193747	RJ11 serial cable with PG9, 1.5 m	Consult
193746	DB9/RJ11 serial cable, 1.5 m	Consult
193745	Converter cable with PG9 USB/RJ11 connector, 1.5 m	Consult
193500	EPROM	Consult

Specifications

Keyboard:

Five key, membrane panel, tactile feel Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)

Display: Six-digit (13 mm), red LED Annunciators: Net, center of zero, stability

Power: 12/24 VDC,

Power Consumption: 70 mA min - 100 mA max

Temperature & Humidity:Working Temperature: -15° C to 40° C
Humidity: 85% non-condensing

Analog Signal Input Range:

± 39 mV

Analog Signal Sensitivity: 0,03 μV/graduation minimum 0,3 μV/graduation approved

A/D Sample Rate:Four channel A/D 24-bit sigma-delta conversion, up to 200 conv. /sec. auto select

Resolution: Internal resolution: 3 million counts

Weight display resolution: 1.000.000 minimum **Excitation:**

APPROVALS

CE

5 VDC, 120 mA, 8 x 350 Ω

Digital Inputs/Outputs:

Two inputs: 12/24 VDC

Two outputs:150 mA 48 VAC/ 150 mA 60 VDC

Serial Port:

1-RS-485, 1-RS-232

Analog Output:

4 - 20 VAC

0-5 VDC

0 - 10 VDC 16 bit analog output

Rating/Material:

NEMA Type 1 plastic pluggable connectors

Warranty:

One-year limited warranty

Specifications

Enclosure:

ABS IP54 case

Kevboard:

Five-key functional waterproof, On/Off, Zero. Tare, Mode and Print

Display:Six-digit 25 mm LCD backlight

Units Displayed:

Kilograms, pounds, tons, grams

12 VDC with included external power adapter (240 VAC, 50/60 Hz) 4-AA batteries

Operating Temperature: Legal for Trade: -10° C to 40° C Industrial: -10° C to 60° C

A/D Inputs:

24 bit, four-channel converter, max. 200 conv./ sec. autoselect, and up to eight signal linearisation points

Resolution:

Up to 1.000.000 displayable divisions with internal resolution up to 3.000.000 points

Load Cell Excitation:

5 VDC

Data I/O:

(2) RS-232/C (1) printer (1) PC

Optional Communications:

RS-485, Bluetooth

Printer Compatibility:

LP542S

Warranty:

Two-year

Approvals:

EC Type Approval (EN45501)



Standard Features

- · Five-key waterproof keypad
- High contrast six-digit and icon, 25 mm LCD backlit screen
- Selectable function modes: high resolution x 10, net/gross, lb to kg conversion, total, formulation, +/- controller with quick target and threshold input, percentage weighing, piece counter, hold
- Easy-to-clean ABS IP54 case, resistant to harsh and corrosive environments

APPROVALS

CE

Part Number/Price

Part #	Description	Price
185279	RLT-200, 5-12VDC, 4AA batteries	Consult

Part #	Description	Price
185299	RS-485	Consult
185300	Alibi memory (includes clock)	Consult
181885	Bluetooth	Consult
193500	EPROM	Consult



Standard Features

- · Five-key waterproof keypad
- High contrast six-digit and icon, 25 mm LCD backlit screen
- Selectable function modes high resolution x 10, net/gross, lb to kg conversion, total, formulation, +/- controller with quick target and threshold input, percentage weighing, piece counter, hold
- Easy-to-clean ABS IP68 enclosure, resistant to harsh and corrosive environments

APPROVALS





Part Number/Price

Part #	Description	Price
189060	RLT-300, battery powered	Consult

Options/Accessories

Part #	Description	Price
185299	RS-485	Consult
185300	Alibi memory (includes clock)	Consult
181885	Bluetooth	Consult
193500	EPROM	Consult

Specifications

Enclosure:

ABS IP68 case

Keyboard:

Five-key functional waterproof, On/Off, Zero, Tare, Mode and Print

Display: Six-digit 25 mm LCD backlight

Units Displayed:

Kilograms, pounds, tons, metric tons, kilonewtons

Power:

Includes internal rechargeable battery and external battery charger

Operating Temperature: Legal for Trade: -10° C to 40° C Industrial: -10° C to 60° C

A/D Inputs:

24 bit, four-channel converter, max. 200 conv./ sec. autoselect, and up to eight signal linearisation points

Resolution:

Up to 1.000.000 displayable divisions with internal resolution up to 3.000.000 points

Load Cell Excitation:

5 VDC

Data I/0:

(2) RS-232/C bidirectional port (1) IPC (1) printer

Optional Communications:

RS-485, Bluetooth

Printer Compatibility: LP542S

Warranty:

Two-year

Approvals:

EC Type Approval (EN45501)

Specifications

Enclosure:

IP68 stainless steel case with sealed rubber gasket

Keypad:

17-key functional waterproof, Zero, Automatic Tare, Presettable Tare, Print, On/Off, Database of 30 Tares, Two Numeric IDs, Keyboard Lock, and Repetition of last printout

Display:

Six-digit 25 mm LCD backlight

Units Displayed:

Kilograms, pounds, tons, grams

Power:

110-240 VAC internal power adapter

Operating Temperature:

Legal for Trade: -10° C to 40° C Industrial: -10° C to 60° C

A/D Inputs:

24 bit, four-channel converter, max. 200 conv./ sec. autoselect, and up to eight signal linearisation points

Resolution:

Up to 1.000.000 displayable divisions with internal resolution up to 3.000.000 points

Load Cell Excitation:

5 VDC

Data I/0:

(2) RS-232/C bidirectional port (1) IPC (1) printer

Optional Communications:

RS-485, Bluetooth

Warranty:

Two-year

Approvals:

EC Type Approval (EN45501)



Standard Features

- 17-key waterproof keypad
- High contrast six-digit and icon, 25 mm LCD backlit screen
- Selectable function modes high resolution x 10, net/gross or lb to kg conversion, total, formulation, +/- checkweighing, percentage weighing, counting
- IP68 stainless steel case with sealed rubber gasket

APPROVALS

CE

Part Number/Price

	11100
185262 RLT-400, 110-240 VAC	Consult

Part #	Description	Price
185348	Digital I/O	Consult
185298	Ethernet	Consult
185299	RS-485	Consult
185300	Alibi memory (includes clock)	Consult
181885	Bluetooth*	Consult
185360	UK power cord	Consult
185361	Swiss power cord	Consult
193500	EPROM	Consult

Counterpart® Configurable Counting Indicator



Standard Features

- AC operated (battery operation is optional)
- · LCD graphic transmissive display for indoor viewing
- Lb/kg/oz/g weight display conversion
- 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

- Battery
- · USB for USB keyboard
- WeighVault[™] for Counterpart

Additional models are available with the approvals shown here Please consult the factory for part numbers.



Measurement Canada

Approvals*

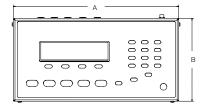
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Dimensions							
Α	312 mm	С	100 mm				
В	157 mm						







Specifications

Power Source:

Input: 100-240 VAC, 47-63 Hz, 5 watts, US power cord Output: 9-12 V, 1,5 A max.

Excitation Voltage:

Analog Signal Input Range:

0-4,5 mV/V

Analog Specifications:

Grad minimum: 0,3 µV/grad Input sensitivity: 1,5 µV/grad recommended Zero adjustment range: 0-100% or per region settinas

A/D conversion rate: 7,5/15/30 samples per second

Load cells per scale: 8 x 350 Ω ; 16 x 700 Ω Scale channels: one or two Linearity: ± 0,017 full scale

Circuit Protection:

RFI, EMI, ESD protection

Digital I/0:

Four

Display:

Viewing area: 240 x 64 pixels, transmissive VGA LCD with adjustable contrast

Kevboard:

24 buttons, full keypad-alphanumeric

Resolution:

Weight display resolution: up to 100.000 graduations

Counting resolution: 1/1.000.000

Communications and Setpoint:

Two RS-232 ports supports up to 115, 200 bps, 20 mA, Ethernet port, setpoint output

Status Enunciators:

PCS, motion, low battery, insuff, recomp, scale number, gross, net, zero

Units of Measure:

Grams, kilograms

Prints:

Standard EPL label format; format is changeable to work with virtually any printer

Optional Battery:

Type: lithium ion, charge time: six to eight hours, charge cycles: 400-1200

Estimated runtime: 24-32 hours with one 350 Ω load cell base

Operating Temperature: 0° C to 40° C

Operating Humidity:

Physical Dimensions:

Indicator only: 311 x 159 x 102 mm

Warranty: Two-year limited warranty

Approvals:

CE UL listed



Part Number/Price

Part #	Model #	Capacity	Platter Dimensions	Est. Weight	Price
132429	CP single-channel, EU power cord	Console only	n/a	5 kg	Consult
132431	CP dual-channel, EU power cord	Console only	n/a	5 kg	Consult

Part #	Description	Price
124692	Rechargeable lithium-ion battery option	Consult
53828	14-Pin Y-cable, connects 2 remote DIGI bases	Consult
32375	Connector, 14-Pin Amphenol load cell (can be soldered to home run cable)	Consult
125062	Ethernet quick access coverplate for Counterpart	Consult
130537	USB for Counterpart, keyboard only	Consult
125079	Quick access 9-Pin cover plate	Consult
120767	Quick access 14-Pin Amphenol cover plate	Consult
125495	Wireless LAN card Wi-Fi 802.11 A/B, optional kit	Consult
125546	WeighVault™ for Counterpart	Consult
77925	Revolution® PC software utility for setup	Consult
118677	Operators manual (Part #129606 Spanish operator's manual)	Consult
121459	Front mount bracket for Benchmark™ scales, S-XL bases	Consult
121474	Firmware download cable	Consult
121501	Stand, angled free standing for table top	Consult
128063	Power supply, 12 V (power cord sold separately)	Consult
72512	Power cord	Consult

Relays and Racks Input/Output Components









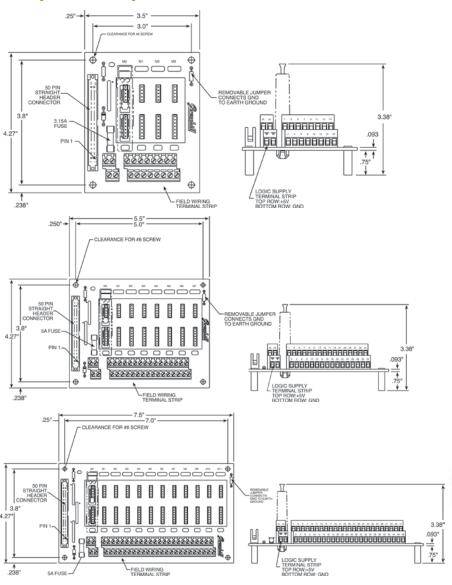
OPTO 22 16-channel relay rack

OPTO 22 G4 PN45408

OPTO 22 24-channel relay rack

OPTO 22 G4 PN15973

Grayhill Relays and Racks





8-channel relay rack



16-channel relay rack



Input and Output Components/ Grayhill and OPTO 22 Relays and Racks

Part Number/Price

Part #	Description	Price
Input/Out	put Component	
43942	Allen-Bradley® multi-function relay with digital display	Consult
29616	Dayton multi-function relay	Consult
Other Rel	ays	
15952	Eight-pin octal relay, AC/DC output, 10A, 120 VAC coil	Consult
15960	Eight-pin octal relay, AC/DC output, 10A, 6 VDC coil	Consult
15961	Eight-pin octal socket	Consult
Grayhill F	lelays and Racks	
52332	Two-channel input relay, 2,5-28 VDC	Consult
52318	Two-channel input relay, 120 VAC	Consult
52319	Two-channel input relay, 240 VAC	Consult
52331	Two-channel input relay, 10-32 VDC	Consult
52316	Two-channel output relay, 120-140 VAC at 2 amp	Consult
52317	Two-channel output relay, 240-280 VAC at 2 amp	Consult
71376	Two-channel output relay, 3-60 VDC t 1 amp	Consult
71377	Two-channel output relay, 0-200 VDC/VAC at 1,5A/10W (dry contact)	Consult
52331	Two-channel input relay, 10-32 VDC	Consult
84698	Two-channel output relay, inductive load, 120-140 VAC at 2A	Consult
84699	Two-channel output relay, inductive load, 240-280 VAC at 2A	Consult
52312	Eight-channel relay rack, 920i panel mount, wall mount requires 50-Pin connector (4 slots)	Consult
52314	16-channel relay rack, 920i panel mount, wall mount requires 50-Pin connector (8 slots)	Consult
52315	24-channel relay rack, 920i panel mount, wall mount requires 50-Pin connector (12 slots)	Consult
46189	Jumper strap, 10 position for Grayhill	Consult
108396	Digital input 5 VDC, 15-30 VAC/10-32 VDC	Consult
108397	Digital output 5 VDC, 3-60 VDC	Consult
70780	Cable, 50-Pin flat ribbon for digital I/O, 609,6 mm	Consult
70779	Cable, 50-Pin round ribbon for digital I/O with cord grip, 1.524 mm	Consult
72442	Cable, 50-Pin round ribbon for digital I/O without cord grip, 1.524 mm	Consult
93577	Cable, 50-Pin flat ribbon for digital I/O, 787,4 mm	Consult
94384	Cable, 50-Pin flat ribbon for digital I/O, 1.270 mm	Consult

OPTO 22 Relays and Racks

Part #	Description	Price
15969	G4IDC5 10-32 VDC Input relay module, white (N/O)	Consult
15970	G40DC5R dry contact 100 VDC/1,5A output, red (N/O)	Consult
22848	G40DC5R5 dry contact 100 VDC/1,5A output, red (N/C)	Consult
15971	G40AC5 115 VAC Output relay module, black (N/O)	Consult
15972	G4IAC5 115 VAC Input relay module, yellow (N/O)	Consult
22847	G40AC5A5 115/230 VAC Output relay module, black (N/C)	Consult
36632	G40AC5A 115/230 VAC Output relay module, black (N/O)	Consult
36631	G4IAC5A 230 VAC Input relay module, yellow (N/0)	Consult
26834	Fuse, 1A 250V (for PN 15970 and PN 22848)	Consult
21735	Fuse, 4A 250V (for PN 15971, PN 22847 and PN 36632)	Consult
16478	Quencharc* arc suppressor	Consult
101923	Remote relay box, does not include relay	Consult
15973	Four-channel relay rack, 83 mm x 83 mm	Consult
45408	Four-channel relay rack 155 mm x 30 mm (non UL)	Consult
33206	16-channel relay rack	Consult
33205	24-channel relay rack	Consult
99032	Adapter plate, for four-channel Opto rack 33490	Consult
155253	Board assembly, DWM IV, eight-channel, Opto 22 GU series compatible, (non UL)	Consult
Relay Boar	ds Fixed Dry Contact Relay	
30549	2-channel 120-240 VAC or 30 VDC/5A	Consult

882IS/882IS Plus

Intrinsically Safe Digital Weight Indicator



Standard Features

- 0.8in, seven-digit, seven-segment LCD display with white LED backlight
- · Stainless steel IP66 enclosure
- T4 temperature rating
- Front panel digital calibration
- Automatic zero and span temperature compensation
- Excitation for four 350-ohm or eight 700-ohm load cells
- · Gross/tare/net computation
- · Tilt stand
- Numeric keypad (882IS Plus only)
- · Duplex fiber optic interface
- · Power ON/OFF; battery save mode
- I/O module option: one serial port, optional analog outputs, optional fieldbus cards
- Time & date (requires I/O module)
- FM Entity Approved for use in hazardous locations per Rice Lake Weighing Systems control drawing file number 180948

Approvals











Measurement Approved

*UL is only applicable to 882IS I/O and battery charger

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 Rice Lake Weighing Systems. All systems and components are warranted against defects in materials and workmanship for one year. All Rice Lake Weighing Systems intrinsically safe equipment carries a Factory Mutual approval and is documented on various control drawings. Each device is manufactured by a Rice Lake Weighing Systems 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 Weighing Systems 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

Load Cell Excitation:

3.0 VDC at 87.5 Ω , 4.6 VDC at 700 Ω

Load Cell Current:

34 mA (4 x 350 Ω load cells) or (8 x 700 Ω load cells)

Load Cell Cabling:

Four and six-wire with remote sensing (recommended)

Analog Signal Input Range:

0.6 mV/V - 4.0 mV/V

Analog Signal Sensitivity:

0.2 µV/graduation minimum

1.5 µV/graduation recommended **Conversion Rate:**

60 updates/second

Resolution:

10,000 displayed graduations (NTEP Certified), 1,000,000 expanded

The maximum number of allowed graduations will vary by application

Display Increments:

1, 2, 5

Display:

Seven-digit, seven-segment LCD display 121 x 24 dot

matrix messaging area with white LED backlight

Decimal Point:

Configurable with dead zeros

Unit Switching:

Configurable for two units of measurement with front panel operation with conversion for tare and setpoint values

Front Panel Control Switches:

882IS: Zero, Gross/Net, Tare, Print, Units Conv, Start. Stop

882IS Plus: Zero, Gross/Net, Tare, Print, Units Conv, Start, Stop, Full numeric keypad

Front Panel:

Ten-button plus power button flat membrane panel

Front Panel Annunciators:

Center Zero, Gross, Net, Motion, Ib, kg, oz, g

Motion Band:

Configurable to \pm 1 or \pm 3 graduations, 1 second delay (or Off)

Power Input:

5.8-7.9 VDC,100-175 mA

Maximum power consumption 0.25 watts

Operating Temperature:

14° F to 104° F (-10° C to 40° C) legal

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

Rating/Material:

Stainless steel IP66 enclosure

Optional Battery: Operating times: 4 x 350 $\Omega=60$ hrs. 1 x 350 $\Omega=80$ -100 hrs. Charging times: 8-10 hrs

Weight:

6.1 lb (2.8 kg)

Warranty:

One-year limited warranty

Intrinsic Safety:

FM/cFM:

Class I,II,III, Division 1, Groups ABCDEFG T4 Class I, Zone 0 AEx/Ex ia IIC T4 Ga Zone 20 AEx/Ex ia IIIC T135°C Da $Ta = -10^{\circ}C \text{ to } +40^{\circ}C \text{ (14°F to 104°F)}$ ATEX/IECEx: II 1 G Ex ia IIC T4 Ga II 1 D Ex ia IIIC T135°C Da

Approvals:

UL/cUL Listed* **FM Entity ATFX IFCFx** NTFP

Measurement Canada (pending)

882IS/882IS PlusIntrinsically Safe Digital Weight Indicator

Part Number/Price

Part #	Description	Price
882IS		
195091	882IS 7.5VDC with standard tilt stand	Consult
185288	882IS with battery and charger (North American plug)	Consult
194231	882IS with battery and charger (EU plug)	Consult
194232	882IS with battery and charger (UK plug)	Consult
196273	882IS with battery and charger (AU plug)	Consult
185290	882IS with power supply	Consult
194235	882IS indicator with power supply and metric thread adapter	Consult
882IS Plus		
195092	882IS Plus 7.5VDC with standard tilt stand	Consult
185291	882IS Plus with battery and charger (North American plug)	Consult
194233	882IS Plus with battery and charger (EU plug)	Consult
194234	882IS Plus with battery and charger (UK plug)	Consult
196274	882IS Plus with battery and charger (AU plug)	Consult
185293	882IS Plus with power supply	Consult
194236	882IS Plus indicator with power supply and metric thread adapter	Consult

† US plug (NA) - Type B



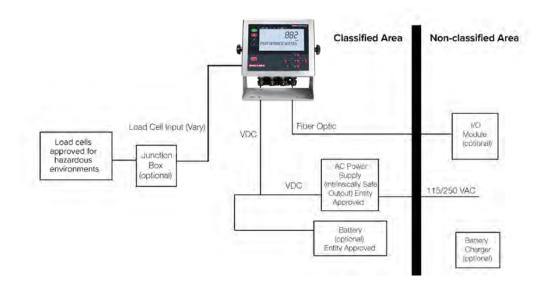
†† Euro Plug - Type E

††† BS1363 (UK) - Type G



†††† AS 3112 (Australian) - Type I

Part #	Description	Price
180831	Battery option, IS6V2	Consult
194191	Battery charger, IS6V2, 100-240VAC NEMA 5-15 (North American plug)	Consult
194189	Battery charger, IS6V2 100-240VAC (EU plug)	Consult
194192	Battery charger, IS6V2 100-240VAC (UK plug)	Consult
180837	Power supply, 882IS mb-EPS-100-240-X2, dual output 6.8 VDC 200mA	Consult
195109	Power supply, 882IS mb-EPS-100-240-X2, dual output 6.8 VDC 200mA, 1/2 in NPT-M20	Consult
179668	Cable, M12 power 22 in hazardous location (for battery version)	Consult
179669	Cable, M12 power 10 ft hazardous location	Consult
179670	Cable, M12 power 50 ft hazardous location	Consult
179671	Cable, M12 power 100 ft hazardous location	Consult
163751	Tilt stand, 882IS	Consult
179678	Tilt stand, 882IS battery option	Consult



Complete Control Drawings available at www.ricelake.com

Profibus® DP Interface

720i⁻⁻/820i⁻/920i⁻



Part Number/Price

Part #	Description	Est. Weight	Price
68540	Profibus DP interface kit (internal), for use with 720i/820i/920i	1 kg	Consult

NOTE: Because Profibus DP option boards interface with programs written by non-Rice Lake Weighing Systems parties, please consult factory for latest technical updates before quoting.

Options/Accessories

Part #	Description	Price
73754	Additional GSD file	Consult
69948	Additional Profibus DP operating manual, (720i/820i/920i)	Consult

Standard Features

- · DP intelligent slave
- · Standard GSD file on disk
- · 128 selectable addresses
- · Auto baud rate up to 56 K
- · Registered with Profibus Trade Organization

Specifications

920i° Power Requirements:Bus adapter card with DeviceNet Module, DC

Supply voltage 6VDC, supplied by 920i bus

Typical current draw:

370 mA

Power consumption:

Operating Temperature:

-10° C to 40° C

Warranty:

One-year limited warranty

PROTOCOL CARDS

Profinet IO Interface 920i®



PN 187816

Part Number/Price

Part #	Description	Price
187816	Profinet IO protocol card for 920i	Consult

Options/Accessories

Part #	Description	Price
187907	Additional Profinet IO operating manual	Consult
187908	Additional Profinet IO CD	Consult

Standard Features

- CE marked and UL conformance
- · Onboard diagnostic LED
- · Control Protocols
- Profinet protocol for PLC IP addresses settings configurable through web page or Anybus IP configuration utility

Specifications

Physical Specifications:

Length: 86 mm Width: 54 mm Height: 15 mm

Power Requirements:

+5 VDC ± 5%, powered by indicator **Power Consumption:**

350 mA on the 5 V power connection

Operating Temperature:

-10° C to 70° C

Non-Operating Temperature:

-25° C to 85° C

Relative Humidity:

5 - 95% non-condensing

Diagnostic Leds:

Link status, module status, network status, activity

Field Bus Interface:

RJ- 45

Standard Features

- Industrial protocol for Allen-Bradley PLC
- · IP address settings configurable with onboard DIP switched, web page, or ARP or DHCP
- Supports Rockwell Automation® EtherNet/IP level
- · CE marked and UL conformance
- · Onboard diagnostic LED
- Control Protocols
- Supports the Modbus/TCP protocol and conforms to Modbus/TCP specification 1.0

Specifications

Physical Specifications:

Length: 86 mm Width: 54 mm Height: 15 mm

Power Requirements:

+5 VDC \pm 5%, powered by indicator

Power Consumption:

350 mA on the 5V power connection

Operating Temperature:

10°C to 70°C

Non-Operating Temperature:

-25° C to 85° C

Relative Humidity:

5 - 95% non-condensing

Diagnostic Leds:

Link status, module status, network status, activity

Field Bus Interface:

RJ- 45



Part Number/Price

Part #	Description	Price
87803	EtherNet/IP protocol card for 720i/820i/920i	Consult

Options/Accessories

Part #	Description	Price
72763	Additional EtherNet/IP CD	Consult
88537	Additional EtherNet/IP operating manual	Consult

Ethernet TCP/IP Interface

720i[™]/820i[®]/920i[®]

Standard Features

- Supports any serial devices with 7 or 8 data requiring Ethernet access
- Compact size for internal installation in 720i™, 820i° and 920i° indicators
- Can be used in other applications requiring 5-volt power supplied
- 10/100 megabyte through RJ-45 connector or wireless option
- . HTTP, serial, telnet and SNMP management

Specifications

Supported Protocols:

ARP, UDP, TCP, Telnet, SNMP, ICMP, HTTP, BOOTP, DHCP and TFTP

Compatibility:

Ethernet: Version 2.0/IEEE 802.3

Network Interface:

Ethernet: RJ-45 (10/100 Base-T) or AUI (transformer and resistors/capacitors required)

Serial Interface:

1 serial interface

Data Rates:

300 bps to 115,2 Kbps

Serial Line Formats:

Characters: 7 or 8 data bits Stop bits: 1 or 2 Parity: odd, even, none

Diagnostic LEDs:

TX/RX data, Good link, Status, Diagnostics

Power Requirements:

5 V regulated 250 mA (Ethernet model)

Operating Temperature:

5°C to 50°C



PN 71986

Part Number/Price

Part #	Description	Est. Weight	Price
71986	Ethernet TCP/IP interface for use with 720i/820i/920i	1 kg	Consult
98057	Wireless Ethernet TCP/IP interface for use with 720i, 820i and 920i	1 kg	Consult

Part #	Description	Price
72763	Ethernet CD	Consult
72117	Additional operating manual	Consult
Cables		
72697	RJ-45 to RJ-45, straight	Consult
78860	RJ-45 to RJ-45, cross over	Consult

Profibus[®] DP Interface 880/1280™



Part Number/Price

Part #	Description	Est. Weight	Price
179163	Profibus DP interface kit, for use with 880 indicator	1 kg	Consult
165795	Profibus DP interface kit for 1280 (single port)	1 kg	Consult

Options/Accessories

Part #	Description	Price
157941	Additional GSD file	Consult
156784	Additional operating manual	Consult

Standard Features

- DP intelligent slave
- Standard GSD file on disk
- 100 selectable addresses
- Up to 12Mbps baud rate

Specifications

Dimensions:

52 x 48 x 19 mm

Power Requirements: 3,15-3,45 VDC

Operating Temperature:

-40° C to 85° C

Warranty:One-year limited warranty

PROTOCOL CARDS

Profinet® Interface 880/1280™



Part Number/Price

Part #	Description	Est. Weight	Price
179160	Profinet interface kit for 880 (single port)	1 kg	Consult
165794	Profinet interface kit for 1280 (single port)	1 kg	Consult

Options/Accessories

Part #	Description	Price
157940	Additional Profinet CD	Consult
156781	Additional operating manual	Consult

Standard Features

- Profinet communication adapter
- · Onboard diagnostic LEDs
- 100 Mbps Baud Rate
- Works as an I/O device on the ProfiNet network
- PROFlenergy compliant

Specifications

Dimensions:

52 x 48 x 19 mm

Power Requirements:

3,15-3,45 VDC

Operating Temperature: -40° C to 85° C

IP Address Range: Full IP address range DHCP

Configuration:

GSDML file

Connector Type:

RJ-45 (two with dual port version)

Standard Features

- · Active module with serial and parallel application interface
- Complete Modbus-TCP server
- Up to 8 bytes of I/O data in each direction
- Transformer isloated interface 100 Mbps full duplex Ethernet
- Onboard diagnostic LEDs
- · CE and UL compliant

Specifications

Dimensions:

52 x 48 x 19 mm

Power Requirements:

3,15-3,45 VDC

Operating Temperature: -40° C to 85° C

Relative Humidity:

5-95% non-condensing

Connector Type:

RJ-45 (two with dual port version)



Part Number/Price

Part #	Description	Est. Weight	Price
179161	Modbus-TCP Interface kit for 880 (single port)	1 kg	Consult
165796	Modbus-TCP Interface kit for 1280 (single port)	1 kg	Consult

Options/Accessories

Part #	Description	Price
157939	Additional Modbus-TCP CD	Consult
156782	Additional operating manual	Consult

PROTOCOL CARDS

EtherNet/IP® Interface 880/1280™

Standard Features

- Industrial protocol for AB PLC
- IP address settings configurable with web page, ARP or DHCP
- Supports Rockwell Automation EtherNet/IP
- Diagnostic LEDs
- CE marked and UL conformance

Specifications

Dimensions:

52 x 48 x 19 mm

Power Requirements:

3,15-3,45 VDC

Operating Temperature:

-40° C to 85° C

Relative Humidity:

5-95% non-condensing

Address Range:

Full IP address range



Part Number/Price

Part #	Description	Est. Weight	Price
179159	EtherNet/IP interface kit for 880 (single port)	1 kg	Consult
165792	EtherNet/IP interface kit for 1280 (single port)	1 kg	Consult

Part #	Description	Price
157943	Additional EtherNet/IP CD	Consult
156861	Additional operating manual	Consult



TranSend*

Wireless Load Cell Interface System

Specifications

Power:

5-6 VDC, 7-36 VDC 85-265 VAC

Excitation Voltage:

Transmitter: +4,8 VDC, 16x 350 Ω or 32x 700 Ω load cells

Standard Antenna:

1/2 wave 2dBi, articulated

Frequency:

Direct sequence spread spectrum at 2,4 GHz, 802.15.4

Effective Range:

30,5 m or more

Digital I/O:

Three coil relays available on select models and 7000HD units

Circuit Protection:

RFI, EMI, ESD protection

Serial Port:

Full duplex RS-232

Operating Temperature:

-40°C to 85°C

Enclosure:

NEMA Type 4 (IP66), aluminum black powder coated (excludes wall cube model) 7000HD and 7001HD: IP68

Additional RF Options:

Wi-Fi Bluetooth Cellular (consult) 802.15.4 FHSS

Warranty:

One-year limited warranty





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
- Auto-off mode selectable for 15, 30, 45, 60 minutes or off
- Auto-sleep mode power down during non-use, power up with weight change or key press
- Serial communication cable included with all transmitters

Additional HD Features

- IP68 milled aluminum enclosure
- 2nd radio modem available

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitt	ers		
5-6 VDC F	Power Input		
160330	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
159207	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
161949	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
176644 *	Single-channel transmitter, no relays, Bluetooth	0,9 kg	Consult
176638 *	Four-channel transmitter, no relays, Bluetooth	0,9 kg	Consult
176641 *	Four-channel transmitter, includes three coil relays, Bluetooth	0,9 kg	Consult
176655	Single-channel transmitter, no relays, Wi-Fi	0,9 kg	Consult
176648	Four-channel transmitter, no relays, Wi-Fi	0,9 kg	Consult
176652	Four-channel transmitter, includes three coil relays, Wi-Fi	0,9 kg	Consult
7-36 VDC	Power Input		
160329	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
159470	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
161951	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
176645 *	Single-channel transmitter, no relays, Bluetooth	0,9 kg	Consult
176639 *	Four-channel transmitter, no relays, Bluetooth	0,9 kg	Consult
176642 *	Four-channel transmitter, includes three coil relays, Bluetooth	0,9 kg	Consult
176656	Single-channel transmitter, no relays, Wi-Fi	0,9 kg	Consult
176650	Four-channel transmitter, no relays, Wi-Fi	0,9 kg	Consult
176653	Four-channel transmitter, includes three coil relays, Wi-Fi	0,9 kg	Consult
85-265 V	AC Power Input		
160328	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
159469	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
161950	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
176643 *	Single-channel transmitter, no relays, Bluetooth	1 kg	Consult
176637 *	Four-channel transmitter, no relays, Bluetooth	1 kg	Consult
176640 *	Four-channel transmitter, includes three coil relays, Bluetooth	1 kg	Consult
176654	Single-channel transmitter, no relays, Wi-Fi	1 kg	Consult
176647	Four-channel transmitter, no relays, Wi-Fi	1 kg	Consult
176651	Four-channel transmitter, includes three coil relays, Wi-Fi	1 kg	Consult

Part Number/Price

Part #	Description	Est. Weight	Price
Receivers			
5-6 VDC Pov	ver In put		
160337	Receiver to provide a mV signal to a digital weight indicator, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
160334	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
160016	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ±5 VDC, ±10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
7-36 VDC Po			
160336	Receiver to provide a mV signal to a digital weight indicator. RF 802.15.4, 2.4 GHz	0,9 kg	Consult
160333	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ± 5 VDC, ± 10 VDC, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
159476	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ± 5 VDC, ± 10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
85-265 VAC	<u>, </u>		
160335	Receiver to provide a mV signal to a digital weight indicator, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
160332	Receiver to provide an analog output signal: 4-20 mA, 0-20 mA, 0-5 VDC, 0-10 VDC, ± 5 VDC, ± 10 VDC, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
159475	Receiver to provide an analog output signal: $4-20$ mA, $0-20$ mA, $0-5$ VDC, $0-10$ VDC, ± 5 VDC, ± 10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz	0,9 kg	Consult
7000HD			
177942	MSI-7000HD 4CH 85-265 VAC, Three Coil Relays, 802.15.4		Consult
177944	MSI-7000HD 4CH 7-36 VDC, Three Coil Relays, 802.15.4		Consult
177945	MSI-7000HD 4CH 9-36 VDC Iso, Three Coil Relays, 802.15.4		Consult
177950 *	MSI-7000HD 4CH 85-265 VAC, Three Coil Relays, Bluetooth®		Consult
177952 *	MSI-7000HD 4CH 7-36 VDC, Three Coil Relays,Bluetooth		Consult
177953 *	MSI-7000HD 4CH 9-36 VDC Iso, Three Coil Relays,Bluetooth		Consult
177995	MSI-7000HD 4CH 85-265 VAC, Three Coil Relays, WiFi		Consult
177997	MSI-7000HD 4CH 7-36 VDC, Three Coil Relays, WiFi		Consult
177998	MSI-7000HD 4CH 9-36 VDC Iso, Three Coil Relays, WiFi		Consult
7001HD			
178021	MSI-7001HD 2CH 85-265 VAC, 802.15.4		Consult
178010	MSI-7001HD 2CH 5-6 VDC, 802.15.4		Consult
178011	MSI-7001HD 2CH 7-36 VDC, 802.15.4		Consult
178012	MSI-7001HD 2CH 9-36 VDC Isolated, 802.15.4		Consult
178013 *	MSI-7001HD 2CH 85-265 VAC, Bluetooth		Consult
178014 *	MSI-7001HD 2CH 5-6 VDC, Bluetooth		Consult
178015 *	MSI-7001HD 2CH 7-36 VDC, Bluetooth		Consult
178016 *	MSI-7001HD 2CH 9-36 VDC Isolated, Bluetooth		Consult
178017	MSI-7001HD 2CH 85-265 VAC, WiFi		Consult
178018	MSI-7001HD 2CH 5-6 VDC, WiFi		Consult
178019	MSI-7001HD 2CH 7-36 VDC, WiFi		Consult
178020	MSI-7001HD 2CH 9-36 VDC Isolated, WiFi		Consult

^{*} Bluetooth modems only work with certain Android devices. Please contact office for potential applications.

•		
Part #	Description	Price
162172	Charger, TranSend™ for 6V SLA battery	Consult
162173	Battery, TranSend 6 V SLA	Consult
162175	Enclosure, TranSend for 6V SLA battery	Consult
150964	RS-232 4 m serial cable with nine-pin (female) connector	Consult
150965	RS-232 4 m serial cable with nine-pin (male) connector	Consult
160109	AC adaptor, TranSend 6V	Consult
162178	Antenna extension kit for enclosures	Consult
139309	Antenna kit, long range Omni with 3 m coax cable	Consult
139310	Antenna kit, corner reflector 9 dbi with 3 m coax cable	Consult
139311	Antenna kit, corner reflector 12 dbi with 3 m coax cable	Consult
139312	Antenna kit, Yagi 15 dbi with 3 m coax	Consult
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	Consult
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	Consult
162177	Cordset, TranSend, pre-wired for use with single channel transmitters or non-relay based receivers	Consult
162184	Load cell connector, TranSend, Field wireable, 4-6 mm straight. For use with single channel transmitters and all receivers	Consult
162185	Load cell connector, TranSend, Field wireable, 6-8 mm straight. For use with single channel transmitters and all receivers	Consult

TranSend™ Wireless Load Cell Interface System

Part #	Description	Price
162186	Load cell connector, TranSend, Field wireable, 4-6 mm right angle. For use with single channel transmitters and all receivers	Consult
162187	Load cell connector, TranSend, Field wireable, 6-8 mm right angle. For use with single channel transmitters and all receivers	Consult
143531	Power cord, 6 V SLA battery charger EU	Consult
143533	Power cord, 6 V SLA battery charger, Australia	Consult
143534	Power cord, 6 V SLA Battery charger, UK	Consult
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	Consult
150964	RS-232 serial cable, nine-pin female	Consult
150965	RS-232 serial cable, nine-pin male	Consult
145085	RS-232 serial cable, nine-pin unterminated	Consult
164865	Cable, 4 m, one-channel, mV/V output, LC input	Consult
165648	Cable, 5 m, one-channel, mV/V output, LC input	Consult
165651	Cable, 10 m, one-channel, mV/V output, LC input	Consult
145084	Cable, 2 m, one-channel, analog output	Consult
144400	Cable, 5 m, one-channel, analog output	Consult
168903	Cable, 10 m, one-channel, analog output	Consult
Consult	Straight connector, analog output, field wire able, 4-6 mM OD	Consult
Consult	Straight connector, analog output, field wire able, 6-8 mM 0D	Consult
Consult	Right angle connector, analog output, field wire able, 4-6 mM 0D	Consult
Consult	Right angle connector, analog output, field wire able, 6-8 mM 0D	Consult
184002	7000HD Half-plate mounted, FHSS, DC (battery) powered (half plate battery power supply sold separately)	Consult
182244	GoDex portable printer (compatible with android tablet app)	Consult

Industrial Broadband Wireless Ethernet



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, Divsion 2 / ATEX Zone 2)*

Part Number/Price

Part #	Description	Price
166630	Industrial hot spot, 802.11abg*	Consult
161954	Industrial hot spot in FRP enclosure*	Consult
161955	Paired radios for serial data tunneling*	Consult

*Special ordered power supplies and antennas required

Dime	nsions FRP Enclosure		
Α	216 mm	В	267 mm



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

Transmit Power; 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)

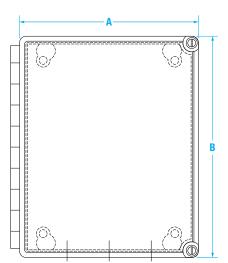
Receiver Sensitivity (Typical):

- -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

Tripp-Lite USB to Serial Converters

Serial Adapters

Specifications

Data Transfer Rate: More than 500 Kbps

Data transfer/handshaking (orange)

Power Consumption:

450 mW

USB Specification: V1.1 compliant



Standard Features

- Portable design—no AC power required
- Simple plug-and-play setup
- Supports data transfer rates of more than 500 Kbps
- Hot swappable

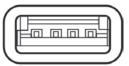
Part Number/Price

Part #	Description	Est. Weight	Price
153603	USB to serial converter	1 kg	Consult
22436	Cable DB9F to blunt end, 6 ft	1 kg	Consult

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

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

Part Number/Price

Description	Price
RJF 544 kit	Consult
Square flange female connector	Consult
Dust cap for harsh environment receptacles	Consult
Gasket for harsh environment receptacles	Consult
Ethernet plug	Consult
Dust cap for harsh environment plugs	Consult
	RJF 544 kit Square flange female connector Dust cap for harsh environment receptacles Gasket for harsh environment receptacles Ethernet plug

Specifications

Data Transmission:

10Base-T, 100Base-TX and 1000Base-T net-works 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 VO and NFF 16 16102, DIN 5510-2 Vibrations: 10-500 Hz, 10 g, 3 axes: No discontinuity > 10 nanos Thermal shock: 5 cycles at -40° C / +100° C

Operating Temperature:

-40° C to 85° C

Applications:

Telecom equipment, video control, robotics, industrial process control, CNC machines, motion control, tele-maintenance

AbleCable®

RS 232/USB Serial Smart Cable Direct, Keyboard Input Direct

Specifications

Baud Rate: 9600

Data Bits:

8

Parity:

None

Color:

Cable Length:

1.880 mm

Bluetooth Cable Length:

406 mm

Power:

USB power, no external power supply

Host:

PC and MAC compliant

Connection:

DB9 male connector, Pin 2 RX, Pin 3 TX and Pin 5 Ground USBA connector



Standard Features

- Converts serial data such as barcode reader or scale into keyboard input to software program
- . Works with PC and MAC
- 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 Bluetooth connection to devices like iPad, Playbook, Android tablets and smart cell phones

Part Number/Price

Part #	Description	Est. Weight	Price
119919	RS-232/USB serial cable	1 kg	Consult
132452	RS-232/USB serial cable plus Bluetooth®	1 kg	Consult

Part #	Description	Price
119064	Slimline null modem, gender changer DB9 female to female	Consult
22436	Blunt-end to DB9 female, straight cable	Consult
50749	DB9 female to DB9 female	Consult
130789	Null model DB9 adapter female to male	Consult

go-betweenData Capture and Storage



Specifications

Baud Rate:

9600

Data Bits:

Parity: None

Power:

Requires 5 VDC

Customer Supplied:

Power and USB flash drive

Industrial Enclosure Option: 19 x 19 x 12 cm Latch for lock

Warranty:

One-year limited warranty

Standard Features

- Onboard LED 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

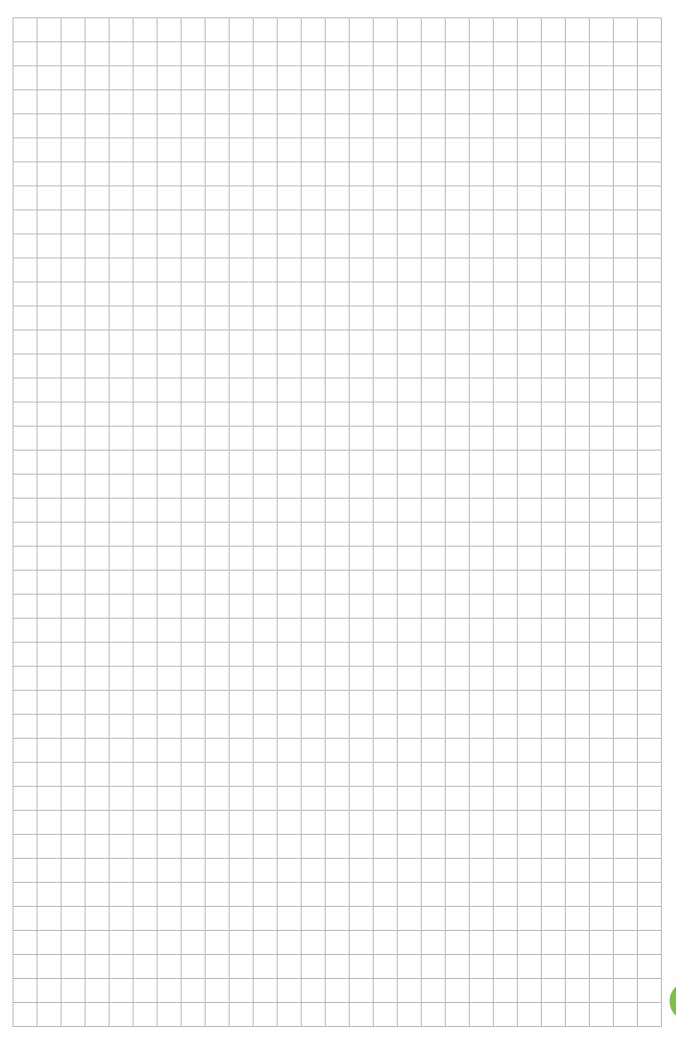
Part Number/Price

Part #	Description	Price
153265	go-between board	Consult
153266	go-between industrial enclosure	Consult
153267	go-between desk enclosure	Consult
158778	go-between desk enclosure, EU power supply	Consult

Options and Accessories

Part #	Description	Price
154797	Adapter, power 5 VDC 2A 90-264 VAC, U.S. plug, UL/cUL	Consult
170935	Overlay, desk	Consult

Text file ex	camples t will be dependent on transmitted file)
02:50PM 11/13/201 GROSS	2 58 lb
02:50PM 11/13/201 GROSS	2 68 lb



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Junction Boxes/ Simulators

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JB8SPT. TuffSeal® Signal Trim Junction Box	
JB1010T	tion
JB1010ST	
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RANGER 1RANGER 3	
TRANSDUCER SIMULATOR 4	
RANGER 5	
RANGER 7	

Looking for products?

Please visit www.ricelake.com/global for current product pricing or call our European office at +31 (0) 26 472 1319 to talk to an industry expert about our product offerings and customized solutions.

JBSSOne-Cell Junction Box



Specifications

Cable Fittings:

Cord grip

Enclosure:

Stainless steel

Connection:

Terminal block

Dimensions:

100 x 100 x 50 mm (excluding cable glands)

Warranty:

One-year limited

Standard Features

- · Connection device for one load cell
- · Connection for one speed pickup

Applications

• For splicing or extending load cell cables

Part Numbers

Part #	Description	Price
157581	J-Box, JBSS	Consult



Specifications

Cable Fittings:

Two cord grips

Enclosure:

Aluminum

Connection:

Terminal block

Operating Temperature:

-40° C to 80° C

Dimensions:

125 x 100 mm

Warranty:

One-year limited warranty

Approvals:

ATEX



Standard Features

- · Connection device for one load cell
- · Connection for one speed pickup
- ATEX approved

Approvals



Applications

· For splicing or extending load cell cables

Part Numbers

Part #	Description	Price		
157583	J-Box, JBSA	Consult		

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.

JBWDual-Cell Junction Box

Specifications

Cable Fittings:

3 x M12, from load cell or speed pickup 2 x M16, to electronics

Enclosure:

Reinforced polycarbonate, impact proof

Connection:

Terminal block, 12 x 2 mm²

Operating Temperature:

-40° C to 80° C

Protection:

IP66

Dimensions:

180 x 110 x 90 mm

Warranty:

One-year limited warranty



Standard Features

- · Connection device for two load cell
- Connection for one speed pickup

Applications

• Summing two load cells, belt scales and screw weigher

Part Numbers

Part #	Description	Est. Weight	Price
157579	J-Box, JBW, two cells	800 g	Consult

JBL Four-Cell Junction Box



Standard Features

- · Connection device for four load cells
- · Connection for one speed pickup

Applications

- · Summing four load cells
- · Static weighing, belt scales

Part Numbers

Part #	Description	Est. Weight	Price
157580	J-Box, JBL, four cells	1.200 g	Consult

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.

JBLS

Four-Cell Junction Box



Standard Features

- · Connection device for four load cells
- Connection for one speed pickup

Applications

- Summing four load cells
- · Static weighing and belt scales

Part Numbers

Part #	Description	Est. Weight	Price
157582	J-Box, JBLS	1.200 g	Consult

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.

Specifications

Cable Fittings:

4 x M12, from load cells

2 x M20/M12 from load cells or speed pickup

1 x M16 electronics

Enclosure:

Reinforced polycarbonate, impact proof

Connection:

Terminal block, 12 x 2 mm²

Operating Temperature:

-40°C to 80°C

Protection:

IP66

Dimensions:

254 x 180 x 90 mm

Warranty:

One-year limited warranty

Specifications

Cable Fittings:

4 x M16, from load cell

1 x M16, to electronics

Enclosure:

Stainless steel

Connection:

Terminal block, 1 mm²

Operating Temperature:

-40° C to 80° C

Protection:

IP65

Dimensions:

200 x 120 x 64 mm

Warranty:

One-year limited warranty

Specifications

Cable Fittings:

4 x M16, from load cells 1 x M16 from speed pickup

Enclosure:

Reinforced ABS, impact proof

Connection:

Terminal block, 2 mm²

Operating Temperature:

-40° C to 80° C (T6 as with II 2D)

Protection:

P66

Dimensions:

260 x 160 x 90 mm

Warranty:

One-year limited warranty

Approvals:

ATEX



Standard Features

- · Connection device for four load cells
- · Connection for one speed pickup

Applications

- · Summing four load cells
- · Static weighing and belt scales

Part Numbers

Part #	Description	Est. Weight	Price
157584	J-Box, JBLA	2.050 g	Consult

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.

JBLSAFour-Cell Junction Box

Specifications

Cable Fittings:

Two cord grips

Enclosure:

Stainless steel

Connection:

Terminal block

Protection:

IP66, T6 temperature

Dimensions:

200 x 120 x 64 mm

Warranty:

One-year limited warranty

Approvals:

ATEX



Standard Features

- · Connection device for four load cells
- · Connection for one speed pickup
- ATEX approved II2 G/D

Applications

- · Summing four load cells
- Static weighing and belt scales

Part Numbers

Part #	Description	Price
157585	J-Box, JBLSA	Consult



EL168One-Cell Junction Box



Specifications

Dimensions:

W x L x D 102 x 102 x 64 mm

Mounting Centers:

95 x 59 mm

Cable Fittings:

Nylon waterproof strain-relief type

Cable Diameter:

2 to 8 mm

Terminal Block:

Rated 300V/15A; seven position, screw terminal can each accommodate up to #16 AWG

Warranty:

One-year limited warranty

Standard Features

- Non-metallic PVCX enclosure with separate input and output cable fittings
- No soldering, compression or swagged fittings are required

Applications

• For splicing or extending load cell cable

Part Numbers

Part#	Description	Price
21161	EL168 one cell junction box	Consult

Approvals

(FM)

APPROVED

Specifications

Cable Fittings:

P/N 88956:

- (4) PG7 0,118-0,255 strain relief
- (2) PG11 0,197-0,394 strain relief
- (1) PreVent™ breather vent

P/N 107700:

- (4) PG9 0,138-0,315 strain relief
- (2) PG11 0,197-0,394 strain relief
- (1) PreVent™ breather vent

Enclosure:

Stainless steel NEMA 4X/IP66

Connectors:

Spring clamp screwless, 12-28 AWG

Trimming:

Individual cell, signal trim

Potentiometers:

100 k ohm, 25 turn cermet

Circuit Board:

97 x 58 mm, with conformal coating

Warranty:

One-year limited warranty



Standard Features

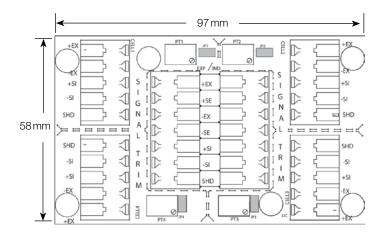
- Stainless steel, NEMA 4X/IP66 enclosure
- · Shunt jumpers to disable a load cell
- PreVent[™] breather vent
- · Conformal coated circuit board
- Number of cells: two to four single cells
- · Expansion port

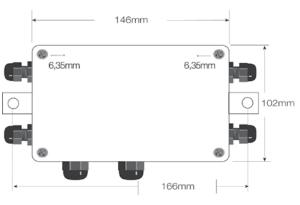
Applications

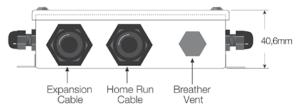
· Floor, tank, hopper scales

Part Numbers

Part#	Description	Price
88956	JB4SS signal trim junction box with PG7 cord grips for load cells	Consult
107700	JB4SS signal trim junction box with PG9 cord grips for load cells	Consult
88958	Board only	Consult







JB4ES

TuffSeal® Excitation Trim Junction Box





Approvals

FM

Standard Features

- Stainless steel, NEMA 4X (IP66) enclosure
- · Jumpers to enable trimming
- PreVent[™] breather vent
- Conformal coated circuit board
- Number of cells: 2 to 4 single cells
- · Expansion port

Applications

· Floor, tank, hopper scales

Part Numbers

Part#	Description	Price
91779	JB4ES excitation trim junction box	Consult
89446	Board only	Consult

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.



Cable Fittings:

- (4) PG7 0,118-0,255 strain relief (2) PG11 0,197-0,394 strain relief (1) PreVent™ breather vent

Enclosure:

Stainless steel NEMA4X

Connectors:

Spring clamp screwless, 12-28 AWG

Trimming:

Individual cell, excitation trim

Potentiometers:

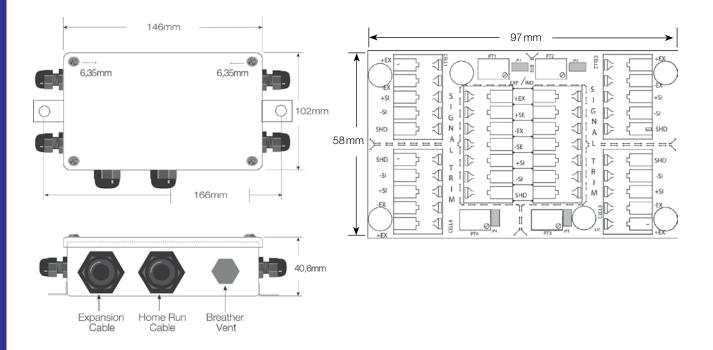
100 ohm, 25 turn cermet

Circuit Board:

97 x 58 mm, with conformal coating

Warranty:

One-year limited warranty



Approvals

FM

APPROVED PN 92762

Not FM approved

JB4SP and JB4SPT

TuffSeal® Signal Trim Junction Box

Specifications

Cable Fittings:

(4) PG7 0.118-0.255 strain relief

(2) PG11 0.197-0.394 strain relief

(1) PreVent™ breather vent

Enclosure:

Molded FRP NEMA 4X/IP66 enclosure with overlapping solid cover, stainless steel screws

Connectors:

Spring clamp screwless, 12-28 AWG

Trimming:

Individual cell, signal trim

Potentiometers:

100.000 ohm, 25 turn cermet

Circuit Board:

97 x 58 mm, with conformal coating

Warranty:

One-year limited warranty



Standard Features

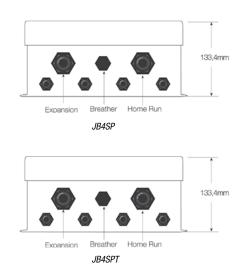
- Fiberglass Reinforced Polyester (FRP) NEMA 4X/IP66 enclosure with stainless steel cover screws
- Jumpers to enable/disable a load cell
- PreVent[™] breather vent
- · Conformal coated circuit board
- · Number of cells: Two, three or four single cells
- · Expansion port

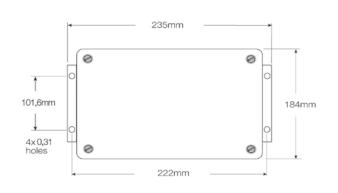
Applications

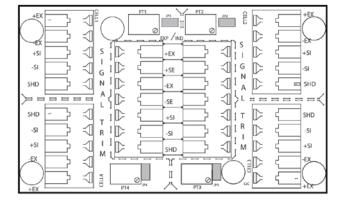
· Tank and hopper scales

Part Numbers

Part#	Description	Price
91780	JB4SP signal trim four-channel with expansion	Consult
92762	JB4SPT signal trim with transient protection	Consult
88958	Board only	Consult
89894	Transient board	Consult







JB4EP and JB4EPT

TuffSeal® Excitation Trim Junction Box





Standard Features

- Fiberglass Reinforced Polyester (FRP) NEMA 4X/IP66 enclosure with stainless steel cover screws
- · Jumpers to enable/disable a load cell
- PreVent[™] breather vent
- Conformal coated circuit board
- Number of cells: Two, three or four single cells
- · Expansion port

Approvals



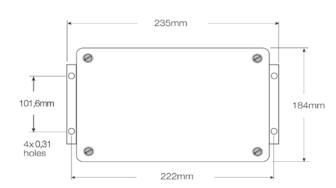
Applications

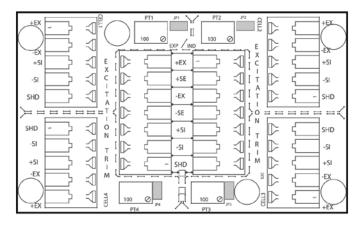
• Tank and hopper scales

Part Numbers

Part#	Description	Price
91781	JB4EP excitation trim junction box	Consult
92763	JB4EPT excitation trim junction box with transient protection	Consult
89446	Board only	Consult
89894	Transient board	Consult

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.





Cable Fittings: (4) PG7 0,118-0,255 strain relief (1) PreVent[™] breather vent

Specifications

(2) PG11 0,197-0,394 strain relief

Enclosure:

Molded FRP NEMA 4X/IP66 enclosure with overlapping solid cover, stainless steel screws

Connectors:

Spring clamp screwless, 12-28 AWG

Trimming:

Individual cell, excitation trim

Potentiometers:

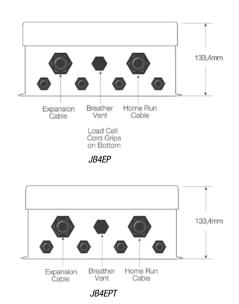
100 ohm, 25 turn cermet

Circuit Board:

97 x 58 mm, with conformal coating

Warranty:

One-year limited warranty



204

Specifications

Cable Fittings:

Five water tight nylon compression fittings, 5 x 7 mm

Connectors:

Spring clamp screwless, 12-28 AWG

Trimming:

Individual cell trim, signal trim

Potentiometers:

100.000 ohm, 25 turn cermet

Enclosure:

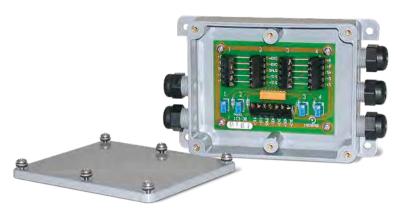
ABS with molded through-fittings, sealed 6-screw

Circuit Board:

97 x 58 mm; with conformal coating

Warranty:

One-year limited warranty



Standard Features

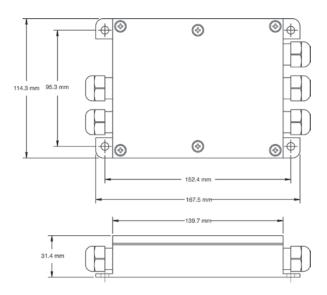
- · ABS enclosure with molded-in cable fittings
- · Premium screw terminals
- · 6-screw attachment to lid, die cut gasket for superior environment protection
- Number of cells: Two, three or four single cells

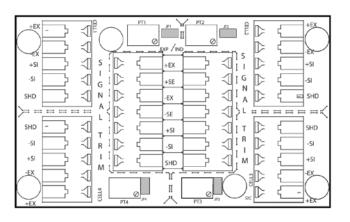
Applications

· Floor, hopper, tank or livestock applications

Part Numbers

Part#	Description	Price
73428	EL204 junction box	Consult
88958	Board only	Consult





EL304A

Signal Trim Junction Box



Standard Features

- Fiberglass-Reinforced Polyester (FRP), NEMA Type 4X enclosure
- · Strain relief cable fittings
- · Individual cell signal disconnect switches
- · Number of cells: Two to four single cells (even number of cells only)
- · Expansion port

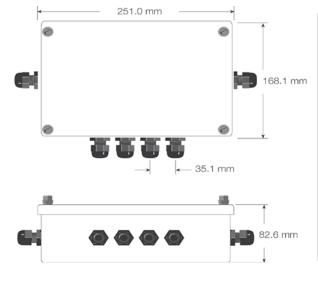
Applications

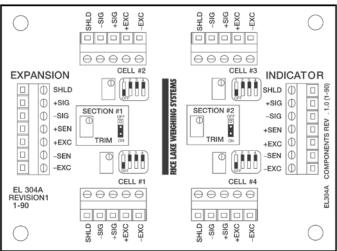
- · Livestock scales
- · Tank and vessel weighing
- Corner and/or section trim applications

Part Numbers

Part#	Description	Price
21169	EL304A signal trim four-channel junction box	Consult
21301	Board only	Consult

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.





Specifications

Cable Fittings:

(4) nylon cable strain reliefs 2-6 mm (2) nylon cable strain reliefs 6-9 mm

Connectors:

Electrovert 5 mm miniature screw terminals. Maximum wire size #14 AWG

Trimming:

Individual cell and section, signal trim

Potentiometers:

100.000 ohms, 25-turn cermet

Enclosure:

FRP NEMA 4X, 40 PSI washdown

Circuit Board:

140 x 102 mm with anti-fungal coating

Warranty:

One-year limited warranty

Specifications

Cable Fittings:

(5) nylon 5-8 mm cable strain reliefs

Connectors:

Electrovert 5 mm miniature two piece connectors. Maximum wire size #14 AWG, connectors are removable for easy wiring

Trimming:

Individual cell trim, signal trim

Potentiometers:

100.000 ohms, 25-turn cermet

Enclosure:

Stainless steel NEMA 4X, 40 PSI washdown

Circuit Board:

165 x 38 mm with anti-fungal coating



Standard Features

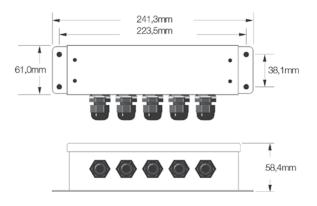
- · Stainless steel, NEMA 4X enclosure
- · Strain relief cable fittings
- · Removable connectors for easy wiring
- Number of cells: Two to four single cells (even number of cells only)
- Any unused channels require modification

Applications

- Weighbridges
- Floor scales
- Limited space installations

Part Numbers

Part#	Description	Price
21165	EL504 signal trim junction box	Consult
21296	Board only	Consult



JB8SP

TuffSeal® Signal Trim Junction Box





Approvals

Standard Features

- Fiberglass Reinforced Polyester (FRP) NEMA 4X enclosure
- PreVent[™] breather vent
- · Conformal coated circuit board
- Removable load cell connectors
- · Section and individual cell trim capability
- Number of cells: Two, four, six or eight single load cells (even number only)
- · Expansion port

Applications

· Weighbridges, livestock and railroad scales

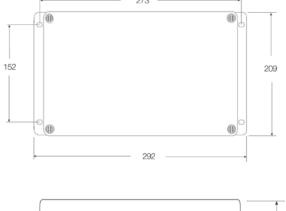
Part Numbers

Part#	Description	Price
91782	JB8SP signal trim eight channel with expansion	Consult
89889	Board only	Consult

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
92734	Coupling, 13 mm NPT cord grip to 19 mmNPT conduit fitting	Consult
92735	Coupling, 10 mm NPT cord grip to 19 mm NPT conduit fitting	Consult





Specifications

Cable Fittings:

- (9) 10 mm NPT 4-8 mm
- (2) 13 mm NPT 7-12 mm
- (1) PreVent™ breather unit

Enclosure:

Molded FRP NEMA 4X enclosure with overlapping solid cover, stainless steel screws

Connectors:

Pluggable screw type, 12-28 AWG

Trimming:

Individual cell trim, range

Potentiometers:

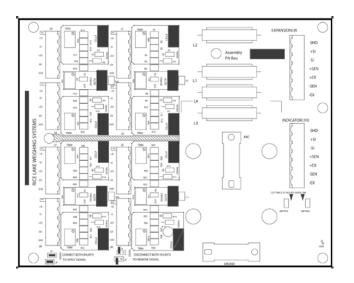
100.000 ohm, 25 turn cermet

Circuit Board:

145 x 183 mm with conformal coating

Warranty:

One-year limited warranty



Specifications

Cable Fittings:

- (9) 10 mm NPT 4-8 mm
- (2) 13 mm NPT 7-12 mm
- (1) PreVent™ breather unit

Enclosure:

Molded FRP NEMA 4X enclosure with overlapping solid cover, stainless steel screws

Connectors:

Pluggable screw type, 12-28 AWG

Trimming:

Individual cell trim

Potentiometers:

100.000 ohm, 25 turn cermet

Circuit Board:

145 x 183 mm with conformal coating

Warranty:

One-year limited warranty



Standard Features

- Fiberglass Reinforced Polyester (FRP) NEMA 4X/IP66 enclosure
- PreVent[™] breather vent
- · Conformal coated circuit board
- Removable load cell connectors
- · Section and individual cell trim capability
- Field replaceable transient protection
- (1) coupling, 1/2 NPT cord grip to 19 mm NPT conduit fitting for homerun cable
- Number of cells: Two, four, six or eight single load cells (even number only)
- · Expansion board

Applications

· Weighbridges, livestock and railroad scales

Part Numbers

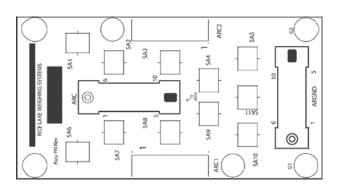
Part#	Description	Price
91783	JB8SPT signal trim junction box with transient protection	Consult
89889	Board only	Consult
89894	Transient board	Consult

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.

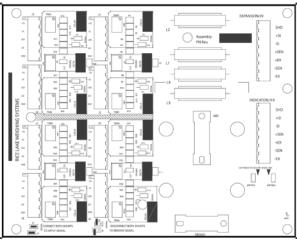
Part#	Description	Price
92734	Coupling, 13mm NPT cord grip to 19mm NPT conduit fitting	Consult
92735	Coupling, 8 mm NPT cord grip to 19 mm NPT conduit fitting	Consult







Transient Board



Load Cell Board

JB1010T

Signal/Excitation Trim Junction Box with Transient Protection



Specifications

Mounting Centers:

95 x 59 mm

Cable Fittings:

Nylon waterproof strain-relief type

Cable Diameter:

2-8 mm

Terminal Block:

Rated 300 V/15 A; seven position screw terminal can each accommodate up to #16 AWG

Warranty:

One-year limited warranty

Standard Features

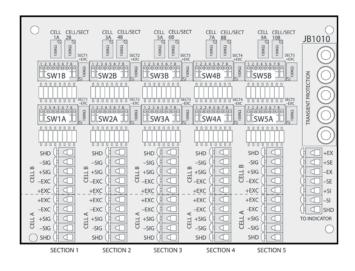
- NEMA 4X/IP66 Fiberglass-Reinforced Polyester (FRP) enclosure
- · Load cell transient protection
- · Signal or excitation trim
- Front panel mounting
- · Strain relief cable fittings
- Number of cells: one through 10 with expansion
- Trims odd numbers of cells without modification

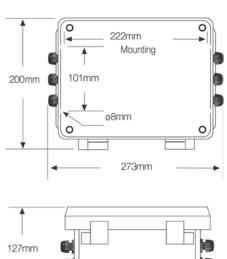
Applications

- Tank, weighbridge, railroad, hopper and floor scales
- · Universal field replacement of existing boxes
- · Paralleling load cells
- · Expansion of existing scales

Part Numbers

Part#	Description	Price
36231	JB1010 signal/excitation trim junction box	Consult
36351	Board only	Consult





Specifications

Cable Fittings:

11 nylon cable strain relief for cable dimension range: 2-8 mm

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

Potentiometers:

100.000 ohm, 25 turns cerment

Enclosure:

Stainless steel

Circuit Board:

165 x 114 mm

Warranty:

One-year limited warranty



Standard Features

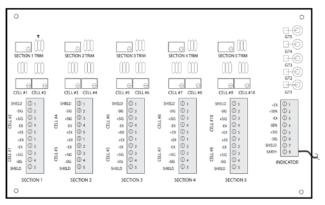
- NEMA 4X stainless steel enclosure
- · Transient protection using gas discharge tubes
- · Section and individual cell trim capability
- · Compact enclosure only 45 mm deep
- · Strain relief cable fitting
- · Number of cells: Two, four, six, eight or 10 single load cells
- · Any unused channels require modification

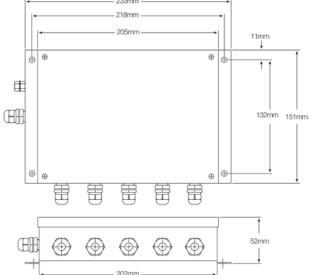
Applications

- · Tank, truck and railroad scales
- Summing 10 load cells with individual and section trimming capability

Part Numbers

Part#	Description	Price
68813	JB 1010ST signal trim junction box	Consult
68811	Board only	Consult





iQUBE 2®

Digital Diagnostic Junction Box



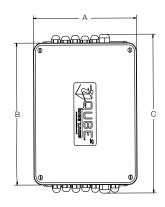


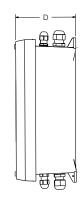
Standard Features:

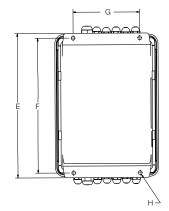
- iQUBE2® board has four A/D channels
- · Stainless steel or Fiberglass Reinforced Polyester (FRP), NEMA Type 4X polyester enclosure
- Supports networking up to four boards, for 16 A/D channels. Connection can be up to four separate
 platforms with a system total, or four separate scales systems
- · Diagnostic routines for weighing errors and system health
- Cell tests for overloaded, underloaded, zero reference, drift, noise, and unbalanced conditions
- Onboard status LEDs for communications 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 communication RS-232/RS-422
- Option card slot for fiber-optic, Ethernet TCP/IP, wireless TCP/IP, USB or RS-232/485
- Four digital I/O per card, for push button operation, setpoint controller cell status

Dimensions

Sta	Stainless Steel 8 in x 10 in				
Α	226,3 mm	Ε	292,1 mm		
В	257,3 mm	F	268,5 mm		
С	319,3 mm	G	152,4 mm		
D	109 mm	Н	7,9 mm		
FRE	P Large 10 in x 12 in				
Α	287 mm	Ε	343,7 mm		
В	338,6 mm	F	324,1 mm		
С	355,6 mm	G	203,2 mm		
D	141,5 mm	Н	7,9 mm		
FRE	Small 8 in x 10 in				
Α	236,5 mm	Ε	287,2 mm		
В	287,2 mm	F	273,1 mm		
С	326,4 mm	G	152,4 mm		
D	137,7 mm	Н	7,9 mm		







Specifications:

Enclosure:

Stainless steel or Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure

Voltage Input:

115/230 VAC power supply DC/DC converter for 9-36 V 6-12 VDC to CPU

Load Cell Inputs:

Four channels per board up to four networked boards

A/D Sampling Rate:

2.5-500 Hz (selectable)

Temperature Range:

-10°C to 40°C

Analog Signal Sensitivity:

0,3 uV/grad at 30 Hz 0,5 uV/grad at 100 Hz 1,2 uV/grad at 500 Hz

Load Cell Excitation:

5 VDC, 57 mA maximum per channel

Analog Range:

-4,5 mV/V to 4,5 mV/V

Approvals:

NTEP 03-032 Measurement Canada - AM-5561, Rev. 1 UL E151461 CE

Warranty:

Two-year limited warranty

Applications:

- · Truck and railroad scales
- Tank and hopper scales
- Multi-channel scales
- Interfaces to 920i[®], Virtui2[®], and ASCII serial commands



Part Number/Price

Part#	Description	Est. Weight	Price	
With AC Po	wer Supply			
108425*	iQUBE2, four-channel, FRP 203 mm x 254 mm junction box	4 kg	Consult	
108426	iQUBE2, four-channel, FRP 254 mm x 305 mm junction box	5 kg	Consult	
108427	iQUBE2, eight-channel, FRP 254 mm x 305 mm junction box	5 kg	Consult	
108428*	iQUBE2, four-channel, stainless steel 203 mm x 254 mm junction box	5,9 kg	Consult	
Without Po	wer Supply			
108429*	iQUBE2, four-channel, FRP 203 mm x 254 mm junction box	3,6 kg	Consult	
108430	iQUBE2, four-channel, FRP 254 mm x 305 mm junction box	4,5 kg	Consult	
108431	iQUBE2, eight-channel, FRP 254 mm x 305 mm junction box	4,5 kg	Consult	
108432*	iQUBE2, four-channel, stainless steel 203 mm x 254 mm junction box	5,4 kg	Consult	
Conduit Adaptors				
92734	Conduit adaptor 3/8 in NTP to 3/4 in NPT		Consult	
92735	Conduit adaptor 1/2 in NTP to 3/4 in NPT		Consult	

^{*} Enclosure size 8 in x 10 in required for truck scale junction box pocket

Part #	Description	Price
108433	Four-channel iQUBE2 board with cables and connectors	Consult
97475	DC/DC power supply, 9-36 VDC (requires factory installation)	Consult
108434	Remote power supply 115/230 VAC and transient board with enclosure	Consult
109396	Transient board	Consult
110949	Transient board with mount	Consult
161936	Hotspot Wi-Fi 802.11 a, b, g	Consult
161954	Hotspot in FRP enclosure	Consult
Communic	eation Card	
108579	RS-232/RS-485 port	Consult
77142	Ethernet TCP/IP	Consult
108671	Wireless LAN 802.11 B/G	Consult
93245	USB port	Consult
77143	Fiber-optic board	Consult
77788	Fiber-optic board (installed in 920i)	Consult
Duplex Fit	er (Max Run 350 ft)	
78026	Fiber-optic cable, 100 ft	Consult
78027	Fiber-optic cable, 200 ft	Consult
78910	Fiber-optic cable, custom length	Consult
Home Run	Cable	
116587	EL166 16 gauge, six conductor, shielded	Consult
Software		
77925	Revolution® configuration software	Consult
108435	Virtui2® virtual indicator demo CD	Consult
108436	Virtui2 activation part number	Consult
112262	Firmware update flash cable	Consult
920i® Indi	cators for use with iQUBE2, requires version 4 software	
77790	920i universal, 115 VAC, without A/D	Consult
77791	920i universal, 230 VAC, without A/D	Consult
93243	920i deep universal, 115 VAC, without A/D	Consult
93244	920i deep universal, 230 VAC, without A/D	Consult
77792	920i panel mount, 115 VAC, without A/D	Consult
77793	920i panel mount, 230 VAC, without A/D	Consult
77794	920i wall mount, 115 VAC, without A/D	Consult
77795	920i wall mount, 230 VAC, without A/D	Consult



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.

iQUBE^{2®}Digital Diagnostic Junction Box

Part #	Description	Price		
1280 Indic	1280 Indicators for use with iQUBE2			
189623	1280 7 in touch-only, AC power supply, no power cord, standard display, without A/D	Consult		
188526	1280 7 in touch-only, AC power supply, no power cord, high visibility display, without A/D	Consult		
188395	1280 12 in touch-only, AC power supply, no power cord, high visibility display, without A/D	Consult		
181073	1280 panel mount, DC power supply, no power cord, standard display, without A/D	Consult		
178473	1280 panel mount, AC power supply, no power cord, high visibility display, without A/D	Consult		
176214	1280 wall mount, AC power supply, U.S. power cord, standard display, without A/D	Consult		
171667	1280 wall mount, AC power supply, U.S. power cord, high visibility display, without A/D	Consult		
174750	1280 panel mount, AC power supply, no power cord, standard display, without A/D	Consult		
174207	1280 universal, AC power supply, Europe power cord, standard display, without A/D	Consult		
171582	1280 universal, AC power supply, U.S. power cord, standard display, without A/D	Consult		
188713	1280 universal, DC power supply, no power cord, standard display, without A/D	Consult		
171540	1280 universal, DC power supply, no power cord, high visibility display, without A/D	Consult		
172419	1280 universal, AC power supply, U.S. power cord, high visibility display, without A/D	Consult		

Specifications:

Range:

0-3 mV/V, variable

Impedance:

700 ohm nominal

Connectors:

Binding posts suitable for banana plug or 14 gauge wire

Temperature Coefficient:

±100 ppm/°C

Dimensions:

(L x W x H) 114,3 mm x 88,9 mm x 31,8 mm

Warranty:

One-year limited warranty



Standard Features:

- ABS plastic case, weighs less than 0,5 kg
- Large vernier knob, smooth 10 turn potentiometer
- Ideal tool for troubleshooting a scale system, bench testing stability of indicators and setpoint simulation
- Binding posts are color coded to ISA S37.8 standard

Part Number/Price

Part#	Description	Price
68029	Ranger 1 variable range simulator	Consult

Part#	Description	Price
21116	Cable with banana plugs	Consult

Ranger 3



Standard Features:

- ABS plastic case, weighs less than 0,5 kg
- 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 testing, troubleshooting and digital weight indicators
- Binding posts are color coded to ISA S37.8 standard

Part Number/Price

Part#	Description	Price
68030	Ranger 3 simulator	Consult

Options/Accessories

Part#	Description	Price
21116	Cable with banana plugs	Consult

Transducer Simulator 4



Standard Features:

- · Designed for high accuracy
- Sealed lid with neoprene O-ring
- Dust proof and crush tested to 226,8 kg
- Four operational modes including vernier adjustment, adjustment, 0,25 mV/V offset and 0,50 mV/V offset
- Ideal for setpoint or batching simulation

Part Number/Price

Part#	Description	Price
22513	Transducer simulator 4	Consult

Options/Accessories

Part#	Description	Price
21116	Cable with banana plugs	Consult

Specifications:

Range

-0,5 mV/V-4,5 mV/V, fixed

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 x W H) 114,3 mm x 88,9 mm x 31,8 mm

Warranty:

One-year limited warranty

Specifications:

Range:

Choose any fixed setting \pm 0,25 mV/V or 0,50 mV/V through a ten-turn wire-wound potentiometer with locking clutch, fixed and variable

Maximum Voltage:

15V

Linearity:

Less than \pm 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

Offset:

+0,25 mV/V for use with digitally calibrated meters requiring positive dead load for calibration

Connectors:

Six-way binding posts, suitable for loose wires or banana plug

Warranty:

One-year limited warranty

Range:

-0,5 mV/V-4,5 mV/V, fixed

Vernier:

Variable range: up to $0.5\,\text{mV/V}$, up to $1\,\text{mV/V}$, up to $1.5\,\text{mV/V}$

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:

(W x L x H) 114,3 mm x 88,9 mm x 31,8 mm

Warranty:

One-year limited warranty



Standard Features:

- ABS plastic case, weighs less than 0,5 kg
- 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 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 digital weight indicators

0.5mVA

• Binding posts are color coded to ISA S37.8 standard

Part Number/Price

Part#	Description	Price
68031	Ranger 5 simulator	Consult

Options/Accessories

Part#	Description	Price
21116	Cable with banana plugs	Consult

Ranger 7

VARIABLE

Specifications:

Vernier:

Two ranges; one is equal to the sum of the 0,05 mV/V switch and the 0-0,5 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 Ω , X1= 350 Ω (one standard load cell), X4= 87,5 Ω (four load cell platform)

Linearity:

 $\pm 0.01\% + 1\mu V$

Connectors:

Low thermal electronics, type 2758 precision gold plated binding posts standard banana jacks or 14

Temperature Coefficient:

5 ppm/°C

Zero Offset:

 $\pm 0,0005 \,\text{mV/V}$

Output Range:

0-3 mV/V in 0,01 mV/V steps

LED Annunciators:

EXC +

EXC -

Offset ON 0,5 mV/V

0,3 mV/V

Standard Features:

- Designed for high resolution, used in high precision testing, troubleshooting and calibrating
 of digital weight indicators
- Switchable offset
- · Painted die cast enclosure

Part Number/Price

Part#	Description	Price
157323	Ranger 7 high resolution calibration simulator	Consult

Options/Accessories

Part#	Description	Price
21116	Cable with banana plugs	Consult

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ELECTRONIC CONVERSION KIT310

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Full Scale Output:

2,0 mV/V

Output Resistance:

350 ohms, ±3

Input Resistance:

400 ohms, ± 20

Material Finish:

Alloy or stainless steel

Temperature:

-10° C to 40° C

Seal Type:

Hermetically sealed, IP66 or IP68/IP69K

Safe Overload:

200%

Rated Excitation:

10V

Combined Error:

<±0,017%

Insulation Resistance:

>5.000

Cable Length:

5 m

Cable Construction:

PVC:

Cable Color Code:

G	ireen+	Excitation
В	lack	Excitation
R	led+	Signal
۷	Vhite	Signal
В	lue+	Sense
Υ	ellow	Sense

Warranty:

One-year limited warranty

Approvals:







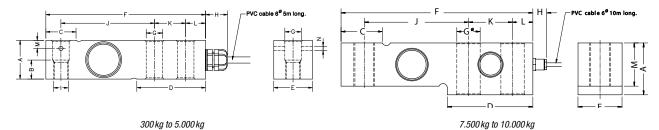


Order Information

Picture is a representation of actual product

Load Rating	Part #	Est. Weight	Price
RL35N / Alloy Steel / IP66			
300 kg	163160	0,9 kg	Consult
500 kg	163161	0,9 kg	Consult
750 kg	163162	0,9 kg	Consult
1.000 kg	163163	0,9 kg	Consult
2.000 kg	163164	0,9 kg	Consult
RL35A / Stainless Steel / I	P66		
300 kg	163165	0,9 kg	Consult
500 kg	163166	0,9 kg	Consult
750 kg	163167	0,9 kg	Consult
1.000 kg	163168	0,9 kg	Consult
1.500 kg	163169	0,9 kg	Consult
2.000 kg	163170	0,9 kg	Consult
3.000 kg	163171	2,2 kg	Consult
5.000 kg	163172	2,2 kg	Consult
	rmetically Sealed / IP68/IP6	59K	
300 kg	160836	0,9 kg	Consult
500 kg	160837	0,9 kg	Consult
750 kg	160838	0,9 kg	Consult
1.000 kg	160839	0,9 kg	Consult
1.500 kg	160840	0,9 kg	Consult
2.000 kg	160841	0,9 kg	Consult
3.000 kg	160842	2,2 kg	Consult
5.000 kg	160843	2.2 kg	Consult
7.500 kg	160844	4,3 kg	Consult
10.000 kg	160845	4,3 kg	Consult
Options			
Consult	ATEX versions		Consult
RL35T	Blind loading hole		Consult

Rated Capacity	A	В	C	D	E	F	G	Н	I	J	K	L	M	N
mm														
300-2.000 kg	32	15	25	56	32	130	13,5	18	M12	76	25	16	7	3,5
3.000-5.000 kg	48	-	37	76	42	172	21,5	18	-	95	38	19	-	-
7.500-10.000 kg	60	-	48	99	51	222	27	16	M24x2	121	51	24	50	-





Picture is a representation of actual product

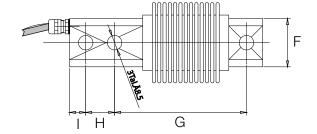
Load Rating	Part#	Price
10 kg*	169840	Consult
15 kg*	169841	Consult
25 kg	169842	Consult
50 kg	169843	Consult
100 kg	169844	Consult
150 kg	169845	Consult
200 kg	169846	Consult

^{*} Capacities without CE Test Certificate

Dimensions

Nominal Capacity	A	В	С	D	E	F	G	Н	1
mm									
10-200 kg	120	46,5	51,5	Ø42	22	Ø31	82,5	18	10

Α С В Ε D



Å4.5x5000mm

Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

350 ohms ± 3

Input Resistance:

350 ohms \pm 3

Material/Finish:

Stainless steel

Temperature: -10° C to 40° C

Seal Type:

Hermetically sealed, IP68

Rated Excitation:

Insulation Resistance:

5000 Megohms

Cable Length:

 $5\,\mathrm{m}$

Cable Construction: PVC

Cable Color Code:

+ Excitation
Excitation
+ Signal
Signal
+ Sense
Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3 C4 available



Full Scale Output:

2,0 mV/V

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

 $350 \text{ ohms} \pm 3$

Material/Finish:

Stainless steel

Temperature:

mperature: -10° C to 40° C

Seal Type:

Hermetically sealed, IP68

Rated Excitation:

15V

Insulation Resistance:

5.000 Megohms

Cable Length:

5 m

Cable Construction:

PVC

Cable Color Code:

Red+	 Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3 C4 available





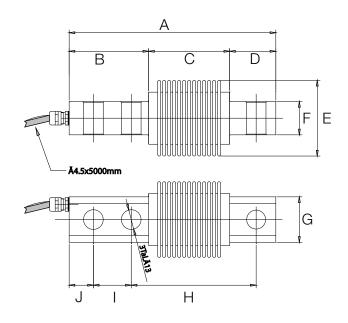
Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
10 kg*	169825	Consult
15 kg*	169826	Consult
25 kg	169827	Consult
30 kg	169828	Consult
50 kg	169829	Consult
75 kg	169830	Consult
100 kg	169831	Consult
150 kg	169832	Consult
200 kg	169839	Consult
250 kg	169833	Consult
300 kg	169834	Consult
500 kg	169835	Consult
750 kg	169836	Consult
1000 kg	169837	Consult
1500 kg	169838	Consult

^{*} Capacities without CE Test Certificate

Nominal Capacity	A	В	C	D	E	F	G	Н	I	J
mm										
10-1500 kg	136,5	52,5	53,5	30,5	Ø50	22	Ø30	82,5	25	16



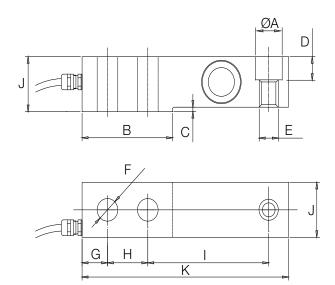


Picture is a representation of actual product

Load Rating	Part#	Price
500 kg	173220	Consult
550 kg	173221	Consult
750 kg	173222	Consult
1000 kg	173223	Consult
1100 kg	173224	Consult
1500 kg	173225	Consult
1760 kg	173226	Consult

Dimensions

Nominal Capacity	A	В	С	D	E	F	G	Н	ı	J	K
mm											
500/750/1000/1500 kg	13,5	57	2,5	13,5	M12	Ø13	16	25,4	76,2	31,5	130
550/1100/1760 kg	20,6	57	2,5	13,5	M12	Ø13	16	25,4	76,2	31,5	130



Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

350 ohms ± 3

Input Resistance:

350 ohms \pm 3

Material/Finish:

Stainless steel

Temperature:

-10° C to 40° C

Seal Type:

Hermetically sealed, IP69K

Rated Excitation:

15V

Insulation Resistance:

5.000 Megohms

Cable Length:

5 m

Cable Construction:

PVC

Cable Color Code:

Kea+	Excitation
Black	
Green+	Signal
White	
Yellow+	Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3 C4 available



Full Scale Output:

2,0 mV/V

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

350 ohms ± 3

Material/Finish:

Alloy steel

Temperature:

-10° C to 40° C

Seal Type:

Environmentally sealed, IP67

Rated Excitation:

15V

Insulation Resistance:

5.000 Megohms

Cable Length:

5 m

Cable Construction:

PVC

Cable Color Code:

Red	+ Excitation
	Excitation
Green	+ Signal
White	Signal
Yellow	+ Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3 C4 available



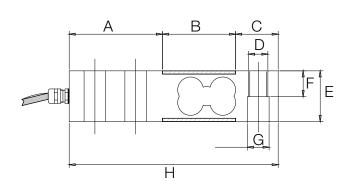


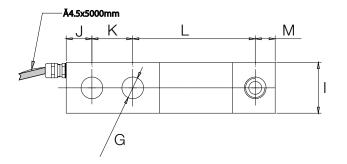
Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
30 kg	173235	Consult
50 kg	173236	Consult
75 kg	173237	Consult
100 kg	173238	Consult
150 kg	173239	Consult
200 kg	173240	Consult
250 kg	173241	Consult
300 kg	173242	Consult

Nominal Capacity	A	В	С	D	E	F	G	Н	ı	J	K	L	М
mm													
30-300 kg	58	45.5	26.5	M12	31.5	15.5	13	130	31.5	16	25.4	76.2	12 4







Picture is a representation of actual product

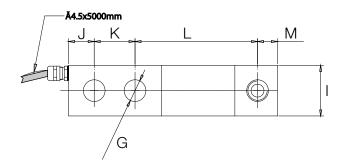
Load Rating	Part#	Price
30 kg	169803	Consult
50 kg	169804	Consult
75 kg	169805	Consult
100 kg	169806	Consult
150 kg	169807	Consult
200 kg	169808	Consult
250 kg	169809	Consult
300 kg	169810	Consult

Dimensions

Nominal Capacity	A	В	С	D	E	F	G	Н	I	J	K	L	M
mm													
30-300 kg	58	45,5	26,5	M12	31,5	15,5	13	130	31,5	16	25,4	76,2	12,4

A B C D F E

Н



Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

350 ohms ± 3

Input Resistance:

350 ohms \pm 3

Material/Finish:

Stainless steel

Temperature:

-10°C to 40°C

Seal Type:

Environmentally sealed, IP67

Rated Excitation:

15V

Insulation Resistance:

5.000 Megohms

Cable Length:

5 m

Cable Construction:

PVC

Cable Color Code:

Kea+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3 C4/C5/C6 available

Full Scale Output:

2,0 mV/V

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

350 ohms \pm 3

Material/Finish:

Stainless steel

Temperature:

mperature: -10° C to 40° C

Seal Type:

Hermetically sealed, IP69K

Rated Excitation:

15V

Insulation Resistance:

5.000 Megohms

Cable Length:

5 m

Cable Construction:

PVC

Cable Color Code:

Red+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3 C4 available

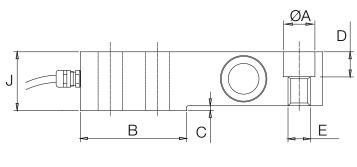


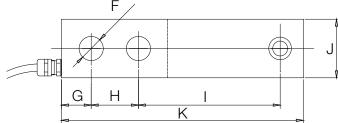
Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
500 kg	169812	Consult
550 kg	169813	Consult
750 kg	169815	Consult
1000 kg	169814	Consult
1100 kg	169816	Consult
1500 kg	169817	Consult
1760 kg	169818	Consult

Nominal Capacity	A	В	С	D	E	F	G	Н	I .	J	K
mm											
500/750/1000/1500 kg	13,5	57	2,5	13,5	M12	Ø13	16	25,4	76,2	31,5	130
550/1100/1760 kg	20,6	57	2,5	13,5	M12	Ø13	16	25,4	76,2	31,5	130





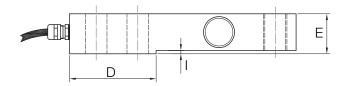


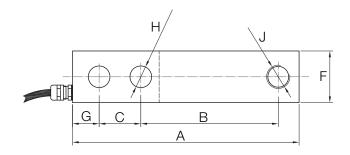
Picture is a representation of actual product

Load Rating	Part#	Price
300 kg	173243	Consult
500 kg	173244	Consult
750 kg	173245	Consult
1000 kg	173246	Consult
1500 kg	173247	Consult

Dimensions

Nominal Capacity	Α	В	С	D	E	F	G	Н	I	J
mm										
300- 1500 kg	136	82,5	25	52	24	31	16	13	2	M14





Specifications

Full Scale Output:

 $2.0 \,\text{mV/V} \pm 0.1\% \,\text{mV/V}$

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

350 ohms \pm 3

Material/Finish:

Stainless steel

Temperature: -30° C to 70° C

Seal Type:

Welded seal, IP67

Rated Excitation:

5-15 VDC max.

Insulation Resistance:

> 5.000 Megohms

Cable Length:

5 m

Cable Color Code:

Red+	Excitation
Black	
Green+	Signal
White	Signal
Yellow+	Sense
Blue –	Sense

Warranty:

One-year limited warranty

Approvals:



Full Scale Output:

 $2.0 \,\text{mV/V} \pm 0.1\% \,\text{mV/V}$

Output Resistance:

350 ohms \pm 3

Input Resistance:

 $350 \text{ ohms} \pm 3$

Material/Finish:

Stainless steel

Temperature:

-30°C to 70°C

Seal Type:

Welded seal, IP67

Rated Excitation:

5-15 VDC max.

Insulation Resistance:

> 5.000 Megohms

Cable Length:

5 m

Cable Color Code:

Red+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue –	Sense

Warranty:

One-year limited warranty

Approvals:



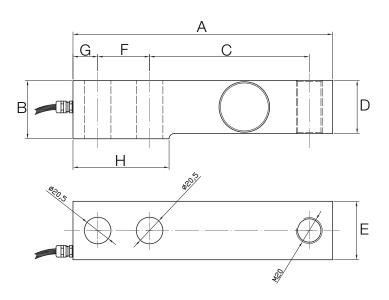


Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
2000 kg	173248	Consult
3000 kg	173249	Consult
4000 kg	173250	Consult
5000 kg	173251	Consult
7500 kg	173252	Consult

Nominal Capacity	A	В	С	D	E	F	G	Н
mm								
2000– 4000 kg	175	35	98	32	45	40	19	74
5000- 7500 kg	200	45	123	41	45	40	19	74



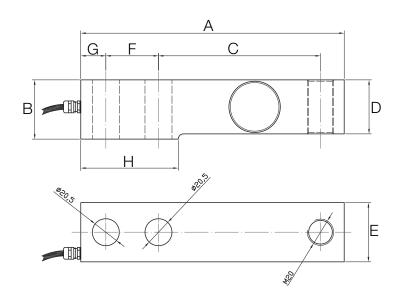


Picture is a representation of actual product

Load Rating	Part#	Price
2000 kg	173253	Consult
3000 kg	173254	Consult
4000 kg	173255	Consult
5000 kg	173256	Consult
7500 kg	173257	Consult

Dimensions

Nominal Capacity	A	В	С	D	Е	F	G	н
mm								
2000– 4000 kg	175	35	98	32	45	40	19	74
5000– 7500 kg	200	45	123	41	45	40	19	74



Specifications

Full Scale Output:

 $2.0 \,\text{mV/V} \pm 0.1\% \,\text{mV/V}$

Output Resistance:

350 ohms ± 3

Input Resistance:

350 ohms \pm 3

Material/Finish:

Stainless steel

Temperature: -30°C to 70°C

Seal Type:

Welded seal, IP68

Rated Excitation:

5-15 VDC max.

Insulation Resistance:

> 5.000 Megohms

Cable Length:

5 m

Cable Color Code:

Rea+	Excitation
Black	
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/C4

Full Scale Output:

2,0 mV/V

Output Resistance:

350 ohms ± 5

Input Resistance:

385 ohms \pm 20

Material/Finish:

Stainless steel

Temperature: -10° C to 40° C

Seal Type:

Welded seal, IP68

Safe Overload

200% FS

Rated Excitation:

10VDC (15VDC Max)

Combined Error:

0.017% FS

Insulation Resistance:

> 5.000 Megohms

Cable Length:

3 m, 4 conductor

Cable Color Code:

Red+	Excitation
White	Excitation
Black+	Signal
Blue	

Warranty:

One-year limited warranty

Approvals:





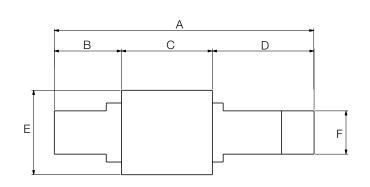
Complies with OIML R60 C3 C4 available

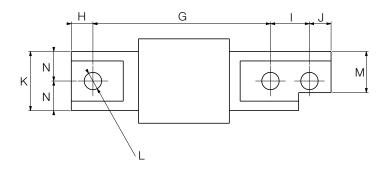
Order Information

Picture is a representation of actual product

Load Rating	Part Number	Price
10 kg	185182	Consult
20 kg	185183	Consult
50 kg	185184	Consult
100 kg	185185	Consult
200 kg	185186	Consult
300 kg	185187	Consult
500 kg	185188	Consult

Nominal Capacity	A	В	С	D	E	F	G	Н	1	J	K	L	M	N
mm														
10-500 kg	120	31	42	47	Ø 39	Ø 20	82	10	18	10	Ø 27,3	N° 3Ø8	Ø 19	13,65







Picture is a representation of actual product

Load Rating	Part Number	Price
100 kg	185189	Consult
200 kg	185190	Consult
300 kg	185191	Consult
500 kg	185192	Consult

Dimensions

Nominal Capacity	A	В	C	D	E	F	G	Н	ı	J	K	L
mm												
10-500 kg	31	42	44	Ø 45	Ø 20	82	10	18	10	Ø 27,3	N° 3Ø8	13.65

Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

 $352 \text{ ohms} \pm 3$

Input Resistance:

400 ohms \pm 20

Material/Finish:

Stainless steel

Temperature: -10° C to 40° C

Seal Type:

Welded seal, IP68

Safe Overload 120% FS

Rated Excitation:

10VDC (15VDC Max)

Combined Error:

0.0017% FS

Insulation Resistance:

> 5.000 Megohms

Cable Length:

3 m, 4 conductor

Cable Color Code:

Green	+ Signal
White	Signal
Red	+ Excitation
Black	 Excitation

Warranty:

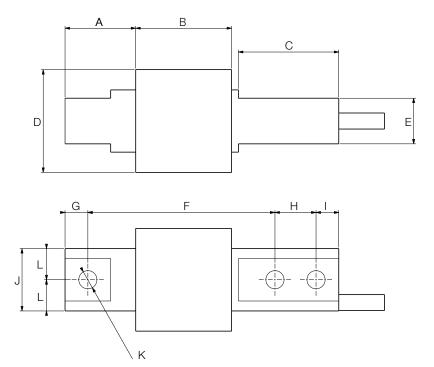
One-year limited warranty

Approvals:





Complies with OIML R60 C3 C4 available



www.ricelake.com/global | Phone: +31 (0) 26 472 1319

Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

1.000 ohms ± 5

Input Resistance:

 $1.100~\text{ohms} \pm 20$

Material/Finish:

Stainless steel

Temperature:

-10° C to 50° C

Seal Type:

Welded seal, IP68

Safe Overload

150% FS

Rated Excitation:

10VDC (15VDC Max)

Combined Error:

0.017% FS

Insulation Resistance:

> 5.000 Megohms

Cable Length:

5 m, 6 conductor

Cable Color Code:

Brown+	Excitation
Green	Excitation
Yellow+	Signal
White	Signal
Grey+	Sense
Pink –	Sense

Warranty:

One-year limited warranty

Approvals:



Complies with OIML R60 C3 C4 available

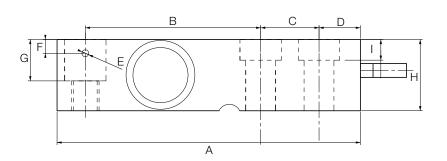


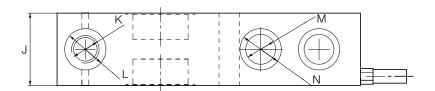
Order Information

Picture is a representation of actual product

Load Rating	Part Number	Price
500 kg	185178	Consult
1.000 kg	185179	Consult
2.000 kg	187627	Consult
2.500 kg	185181	Consult

Nominal Capacity	A	В	С	D	E	F	G	Н	ı	J	K	L	M	N
mm														
500-2.500 kg	132	76,3	25,4	18	Ø 3	6	18	31	9	31,5	M 12	Ø18	N°2 Ø13	N°2 Ø18







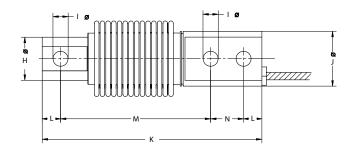
Picture is a representation of actual product

Load Rating	Part#	Est. Weight	Price				
5 kg	160824	0,5 kg	Consult				
10 kg	160825	0,5 kg	Consult				
20 kg	160826	0,5 kg	Consult				
30 kg	160827	0,5 kg	Consult				
50 kg	160828	0,5 kg	Consult				
75 kg	160829	0,5 kg	Consult				
100 kg	160830	0,5 kg	Consult				
150 kg	160831	0,5 kg	Consult				
200 kg	160832	0,5 kg	Consult				
250 kg	160833	0,5 kg	Consult				
300 kg	160834	0,5 kg	Consult				
500 kg	160835	0,5 kg	Consult				
Options							
Consult	ATEX versions		Consult				

Dimensions

Nominal Capacity	A	В	C	D	E	F	G	Н	I	J	K	L	M	N
mm														
5-500 kg	42	28	20	25	54	42	20	23,5	8,2	30	120	10	82	18

A B C PVC cable 4ø 3m.long.



Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

 $350 \text{ ohms}, \pm 3$

Input Resistance:

400 ohms, ± 2

Material Finish:

Stainless steel

Temperature:

-10° C to 40° C

Seal Type:

Welded seal, IP68/IP69K

Safe Overload:

200%

Rated Excitation:

10V

Combined Error:

<±0,017%

Insulation Resistance:

>5.000 Megohms

Cable Length:

3 m

Cable Construction:

PVC

Cable Color Code:

Green	+ Excitation
Black	Excitation
Red	+ Signal
White	Signal
Blue	+ Sense
Yellow	Sense

Warranty:

One-year limited warranty

Approvals:





R60 C3 C4-available

Option:

Full Scale Output:

2,0 mV/V

Output Resistance:

700 ohms, ± 5

Input Resistance:

800 ohms, \pm 30

Material Finish:

Stainless steel

Temperature:

-10° C to 40° C

Seal Type:

Hermetically sealed, IP68

Safe Overload:

200%

Rated Excitation:

10 V

Combined Error:

<±0,017%

Insulation Resistance:

>5.000 Megohms

Cable Length:

12 m

Cable Construction:

Cable Color Code:

Green+	Excitation
Black	Excitation
Red+	
White	Signal
Blue+	Sense
Yellow –	Sense

Warranty:

One-year limited warranty

Approvals:



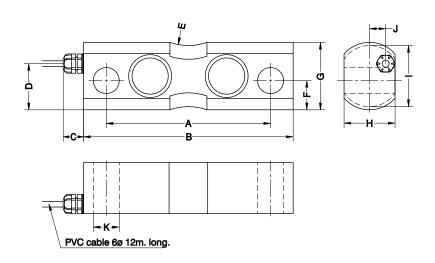


Order Information

Picture is a representation of actual product

Load Rating	Part#	Est. Weight	Price
5t	160851	3,2 kg	Consult
10t	160852	3,2 kg	Consult
20t	160853	3,2 kg	Consult
30t	160854	8,5 kg	Consult
50 t	160855	8,5 kg	Consult
75 t	160856	16,2 kg	Consult
100t	160857	16,2 kg	Consult
Options			
Consult	ATEX versions		Consult

Rated Capacity	A	В	C	D	E	F	G	Н	1	J	K
mm											
5-20t	145	185	16	41	r.50	26	60	45	55	14	23
30-50t	220	285	16	48	r.50	30	75	60	66	22	30
75-100t	260	340	16	66	r.50	37	100	80	91	32	50





Picture is a representation of actual product

Load Rating	Part#	Price
3.000 kg	161142	Consult
4.000 kg	161143	Consult
5.000 kg	161144	Consult
7.500 kg	161145	Consult
10.000 kg	161146	Consult
Options		
Consult	ATEX versions	Consult

Dimensions

Rated Capacity	A	В	C	D	E	F	G	Н
mm								
3.000-10.000 kg	10	32	52	67	185	75	90	67

Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

700 ohms, ±3

Input Resistance:

700 ohms, ± 3

Material Finish:

Stainless steel

Temperature: -10°C to 40°C

Seal Type:

Welded seal, IP67

Rated Excitation:

15V

Insulation Resistance:

5.000 megohms

Cable Length:

5 m

Cable Construction:

PVC

Cable Color Code:

Red+	Excitation
Black	Excitation
Green+	
White	Signal
Yellow+	Sense
Blue	Sense

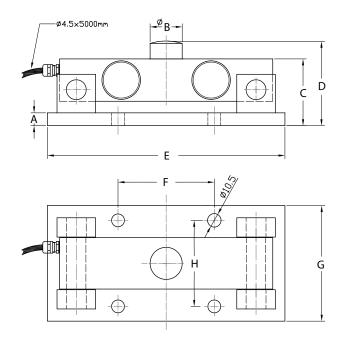
Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/ C4/C5





Full Scale Output:

2,0 mV/V

Output Resistance:

 $700 \text{ ohms}, \pm 3$

Input Resistance:

700 ohms, ± 3

Material Finish:

Stainless steel

Temperature:

-10°C to 40°C

Seal Type:

Welded seal IP67

Rated Excitation:

15V

Insulation Resistance:

>5.000 megohms

Cable Length:

15 m

Cable Construction:

able Co PVC

Cable Color Code:

Red+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue –	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/ C4/C5/C6



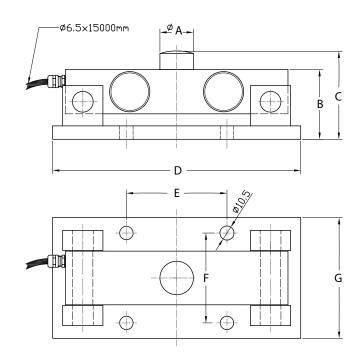


Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
5t	161169	Consult
10t	161170	Consult
15t	161171	Consult
20 t	161172	Consult
25 t	161173	Consult
Options		
Consult	ATEX versions	Consult

Rated Capacity	A	В	С	D	Е	F	G
mm							
5-25†	32	76	91	243	90	86	120





Picture is a representation of actual product

Load Rating	Part#	Price
20t	161206	Consult
25 t	161207	Consult
30 t	161208	Consult
40 t	161209	Consult
50 t	161210	Consult

Dimensions

Rated Capacity	A	В	C	D	E	F	G	Н	I
mm									
20-50t	32	60	86	98	243	90	130	60	96

Specifications

Full Scale Output:

2,0 mV/V nominal

Output Resistance:

700 ohms, ±3

Input Resistance:

700 ohms, ± 3

Material Finish:

Stainless steel

Temperature:

-10° C to 40° C

Seal Type:

Welded seal, IP67

Rated Excitation:

15V

Insulation Resistance:

>5.000 megohms

Cable Length:

15 m

Cable Construction:

PVC

Cable Color Code:

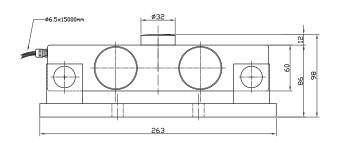
Reu+	EXCITATION
Black	
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

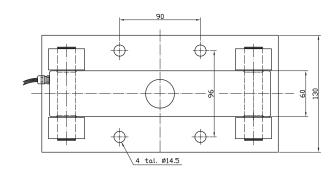
Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3





Full Scale Output:

2,0 mV/V

Output Resistance:

350 ohms, ±3

Input Resistance:

400 ohms, ±20

Material Finish:

Stainless steel

Temperature:

-10°C to 40°C

Seal Type:

Hermetically sealed, IP68/IP69K

Safe Overload:

200%

Rated Excitation:

10V

Combined Error:

 $<\pm 0.017\%$

Insulation Resistance:

>5.000 Megohms

Cable Length:

5 m

Cable Construction:

PVC

Cable Color Code:

Green	+ Excitation
	Excitation
Red	+ Signal
White	Signal
Blue	+ Sense
Yellow	Sense

Warranty:

One-year limited warranty

Approvals:





R60 C3

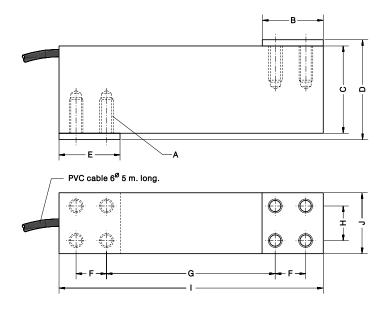


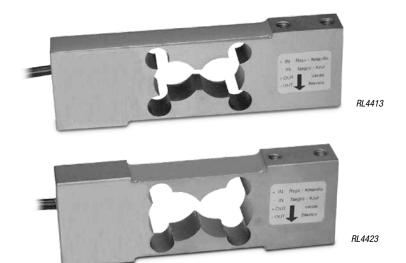
Order Information

Picture is a representation of actual product

Load Rating	Part#	Est. Weight	Price
15kg	160816	1,8 kg	Consult
20 kg	160817	1,8 kg	Consult
30 kg	160818	1,8 kg	Consult
50 kg	160819	1,8 kg	Consult
75 kg	160820	1,8 kg	Consult
120 kg	160821	1,8 kg	Consult
200 kg	160822	1,8 kg	Consult
350 kg	160823	1,8 kg	Consult
250 kg	161136	4,3 kg	Consult
400 kg	161137	4,3 kg	Consult
Options			
Consult	ATEX versions		Consult

Rated Capacity	A	В	C	D	E	F	G	Н	I	J
mm										
15, 20, 30 , 50, 75, 120, 200, 300 kg	8 x M8 x 1 x 14	35	50	56	35	17	96	20	150	35
250 - 400 kg	8 x M10 x 2 x 20	50	60	66	50	30	100	40	180	60





Picture is a representation of actual product

	. •	riotaro lo a roprocontation el actual product
Load Rating	Part#	Price
RL4413 Models		
5 kg	173352	Consult
7 kg	173355	Consult
10 kg	173356	Consult
20 kg	173357	Consult
40 kg	173358	Consult
RL4423 Models		
10 kg	173364	Consult
18 kg	173365	Consult
36 kg	173366	Consult

Dimensions

Nominal Capacity	A	В	С	D	E	F	G	Н	I
mm (RL441	3 model)								
5 - 40 kg	125	75	31	16	15	40	19	15	6
mm (RL4423 model)									
10 - 36 kg	115	65	31	16	15	40	19	-	6

Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

350 ohms ± 3

Input Resistance:

390 ohms ± 3

Material/Finish:

Alloy steel

Temperature:

-20° C to 70° C

Seal Type:

Environmentally sealed, IP67

Rated Excitation:

5-15 VDC max.

Insulation Resistance:

> 5000 Megohms

Cable Length:

 $5\,\mathrm{m}$

Cable Color Code:

Red+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

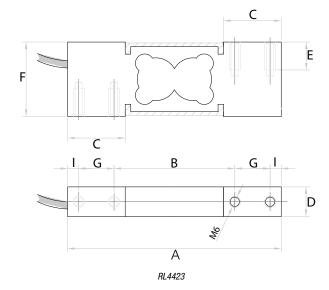
One-year limited warranty

Approvals:

Complies with OIML R60 C3/ C4/C5/C6



F	ţΕ
C A B G I	- D
RL4413	



Full Scale Output:

2,0 mV/V

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

390 ohms ± 3

Material/Finish:

Stainless steel

Temperature:

-20°C to 70°C

Seal Type:

Environmentally sealed, IP68

IP68 rating with fully welded seal is available

Rated Excitation:

5-15 VDC

Insulation Resistance:

> 5000 Megohms

Cable Length:

5 m

Cable Color Code:

Red+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C6

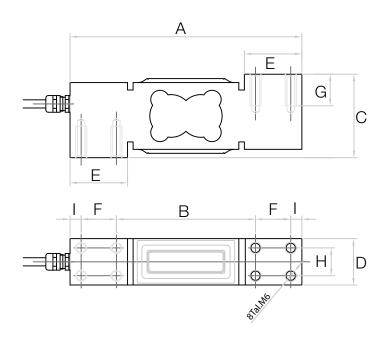




Order Information

Load Rating	Part#	Price
25 kg	173370	Consult
50 kg	173371	Consult
75 kg	173372	Consult
100 kg	173373	Consult
150 kg	173374	Consult
200 kg	173375	Consult
250 kg	173376	Consult

Nominal Capacity	A	В	С	D	E	F	G	Н	I
mm									
25 - 250 kg	125	75	45	25	31	19	17	15	6

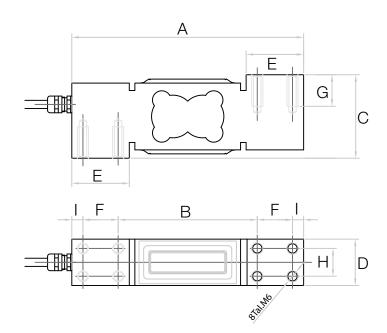




Load Rating	Part#	Price
25 kg	173377	Consult
50 kg	173378	Consult
75 kg	173379	Consult
100 kg	173380	Consult
150 kg	173381	Consult
200 kg	173383	Consult
250 kg	173384	Consult

Dimensions

Nominal Capacity	A	В	С	D	E	F	G	Н	I
mm									
25 - 250 kg	125	75	45	25	31	19	17	15	6



Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

390 ohms \pm 3

Material/Finish:

Stainless steel

Temperature: -20° C to 70° C

Seal Type:

Environmentally sealed, IP68

Rated Excitation:

5-15 VDC

Insulation Resistance:

> 5000 Megohms

Cable Length:

5 m

Cable Color Code:

Kea+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C6



Full Scale Output:

2,0 mV/V

Output Resistance:

350 ohms \pm 3

Input Resistance:

390 ohms \pm 3

Material/Finish:

Stainless steel

Temperature:

-30°C to 70°C

Seal Type:

Environmentally sealed, IP67

IP68 rating with fully welded seal is available

Rated Excitation:

5-15 VDC

Insulation Resistance:

> 5000 Megohms

Cable Length:

5 m

Cable Color Code:

Red	 Excitation
Black	 Excitation
Green	+ Signal
White	– Signal
Yellow	+ Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/C4



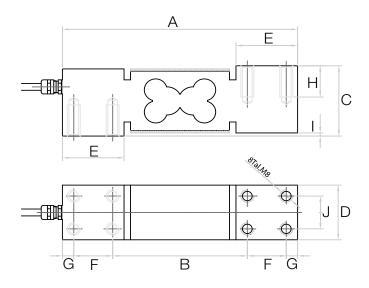


Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
50 kg	173385	Consult
75 kg	173386	Consult
100 kg	173387	Consult
150 kg	173388	Consult
200 kg	173389	Consult
250 kg	173390	Consult
300 kg	173391	Consult
500 kg	173392	Consult

Nominal Capacity	A	В	С	D	E	F	G	Н	ı	J
mm										
50 - 500 ka	145	83	45	35	38	24	7	20	2	21



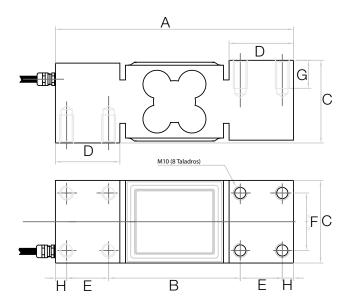


Picture is a representation of actual product

Load Rating	Part#	Price
150 kg	173408	Consult
300 kg	173409	Consult
500 kg	173410	Consult
750 kg	173411	Consult
1.000 kg	173412	Consult

Dimensions

Nominal Capacity	A	В	С	D	E	F	G	Н
mm								
150 - 1.000 kg	170	94	59	46	30	41	20	8



Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

390 ohms \pm 3

Material/Finish:

Stainless steel

Temperature: -30° C to 70° C

Seal Type:

Environmentally sealed, IP67

IP68 rating with fully welded seal is available

Rated Excitation:

5-15 VDC max.

Insulation Resistance:

> 5.000 Megohms

Cable Length:

5 m

Cable Color Code:

Red+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/C4



Full Scale Output:

2,0 mV/V

Output Resistance:

300-500 ohms

Input Resistance:

300-500 ohms

Material Finish:

Aluminum

Temperature:

-10° C to 50° C

Seal Type:

Environmentally sealed, IP67

Safe Overload:

150% FS

Rated Excitation:

10 VDC (15 VDC Max)

Combined Error:

0,03% FS

Insulation Resistance:

>2.000 ohms

Cable Length:

3 m, 6 conductor

Cable Color Code:

Blue	+ Excitation
Black	Excitation
White	
Red	
Green	+ Sense
Grey	Sense

Warranty: One-year limited warranty

Max Platform Size:

450 x 450 mm

Approvals:







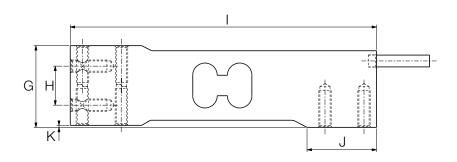


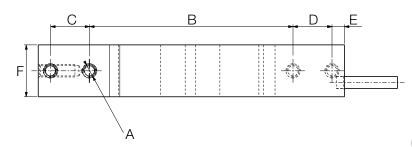
Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
10 kg	185159	Consult
15 kg	185160	Consult
20 kg	185161	Consult
30 kg	185162	Consult
50 kg	185163	Consult
100 kg	185164	Consult
200 kg	185165	Consult

Rated Capacity	A	В	C	D	E	F	G	Н	I	J	K
mm											
10-200 kg	N°7 M6	99,6	19,1	19,1	6,1	25,4	40	19,1	150	34	1







Picture is a representation of actual product

Load Rating	Part#	Price
3 kg	185152	Consult
5 kg	185153	Consult
10 kg	185154	Consult
15 kg	185155	Consult
20 kg	185156	Consult
30 kg	185157	Consult
40 kg	185158	Consult

Dimensions

Rated Capacity	Α	В	C	D	E	F	G	Н	1
mm									
3-40 kg	n° 4 M6	25,4	15	12	106	22	130	25	25

Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

300-500 ohms

Input Resistance:

300-500 ohms

Material Finish:

Aluminum

Temperature:

-10° C to 50° C

Seal Type:

Environmentally sealed, IP67

Safe Overload:

150% FS

Rated Excitation:

10VDC (15VDC Max)

Insulation Resistance:

>2.000 ohms

Cable Length:

40 cm, 4 conductor

Cable Construction:

PVC

Cable Color Code:

Blue+	Excitation
Black	Excitation
White+	Signal
Red -	Signal

Warranty:

One-year limited warranty

Max Platform Size:

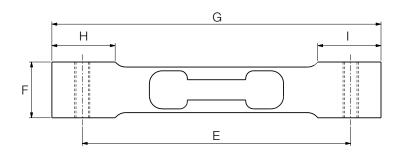
300 x 300 mm

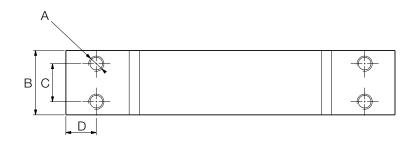
Approvals:











Full Scale Output:

2,0 mV/V

Output Resistance:

359 ohms, ± 5

Input Resistance:

380 ohms, ± 15

Material Finish:

Stainless steel

Temperature:

-10° C to 50° C

Seal Type:

Potted, IP67

Safe Overload:

300% FS

Rated Excitation:

10 VDC (15 VDC Max)

Insulation Resistance:

>1.000 Megohms

Cable Length:

3 m, 6 conductor

Cable Color Code:

White+	Excitation
Red	
Blue+	Signal
Black	Signal
Green +	Sense
Grey	Sense

Warranty:

One-year limited warranty

Max Platform Size:

500 x 400 mm

Approvals:





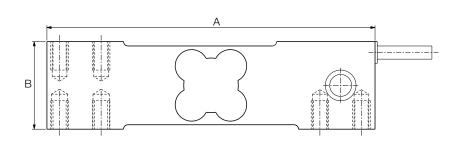


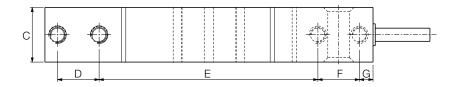
Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
7,5 kg	185166	Consult
15 kg	185167	Consult
30 kg	185168	Consult
50 kg	185169	Consult
100 kg	185170	Consult
200 kg	185171	Consult

Rated Capacity	Α	В	C	D	E	F	G
mm							
7,5-200 kg	150	40	25	19	100	19	6,2





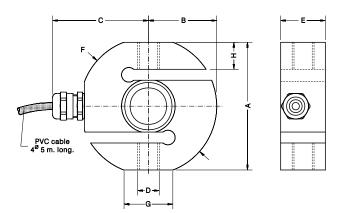


Picture is a representation of actual product

Load Rating	Part#	Est. Weight	Price
250 kg	160858	1 kg	Consult
500 kg	160859	1 kg	Consult
1.000 kg	160860	2 kg	Consult
2.000 kg	160861	2 kg	Consult
5.000 kg	160862	4 kg	Consult
7.500 kg	160863	5,5 kg	Consult
Options			
Consult	ATEX versions		Consult

Dimensions

Rated Capacity	Α	В	C	D	E	F	G	Н
mm								
250-500 kg	70	38	50	M12x2	25	75	27	15
1.000-2.000 kg	95	50	60	M20x2	30	100	31	26
5.000 kg	120	63	73	M24x2	40	125	35	34
7.500 kg	120	63	73	M24x2	56	125	35	34



Specifications

Full Scale Output:

2,0 mV/V nominal

Output Resistance:

350 ohms, ±3

Input Resistance:

400 ohms, ± 20

Material Finish:

Stainless steel

Temperature: -10° C to 55° C

Seal Type:

Welded seal IP68

Safe Overload:

200%

Rated Excitation:

10V DC

Combined Error:

<±0,017%

Insulation Resistance:

>5.000 megohms

Cable Length:

5 m

Cable Construction:

PVC

Cable Color Code:

Green+	Excitation
Black	
Red+	
White	Signal
Blue+	Sense
Yellow	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3



Full Scale Output:

2,0 mV/V \pm 0.1% mV/V

Output Resistance:

350 ohms ± 3

Input Resistance:

350 ohms ± 3

Material/Finish:

ateriai/Fin Alloy steel

Temperature:

-20° C to 70° C

Seal Type:

Welded seal, IP67

Rated Excitation:

5–15 VDC max.

Insulation Resistance:

> 5000 Megohms

Cable Length:

5 m

Cable Color Code:

Red+	 Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue -	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/ C4/C5/C6



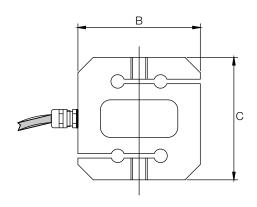


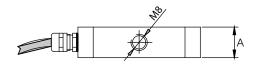
Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
30 kg	173279	Consult
50 kg	173281	Consult
75 kg	173282	Consult
100 kg	173283	Consult
150 kg	173284	Consult

	Nominal Capacity	A	В	C
	mm			
	30 - 100 kg	15	60	60
Ì	150 kg	20	60	60







Picture is a representation of actual product

Load Rating	Part#	Price
30 kg	173285	Consult
50 kg	173287	Consult
75 kg	173288	Consult
100 kg	173289	Consult
150 kg	173290	Consult

Dimensions

Nominal Capacity	A	В	C
mm			
30 - 100 kg	15	60	60
150 kg	20	60	60

Specifications

Full Scale Output:

 $2.0 \,\text{mV/V} \pm 0.1\% \,\text{mV/V}$

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

350 ohms ± 3

Material/Finish:

Alloy steel

Temperature:

-20°C to 70°C

Seal Type:

Welded seal, IP67 **Rated Excitation:**

5-15 VDC max.

Insulation Resistance: > 5000 Megohms

Cable Length:

Cable Color Code:

Red+	Excitation
Black	
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

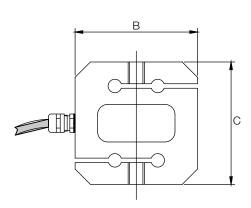
Warranty:

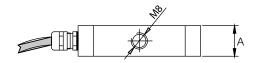
One-year limited warranty

Approvals:

Complies with OIML R60 C3/ C4/C5/C6







Full Scale Output:

 $2,0 \, \text{mV/V} \pm 0.1\% \, \text{mV/V}$

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

350 ohms ± 3

Material/Finish:

Alloy steel

Temperature:

-30° C to 70° C

Seal Type:

Welded seal, IP67

Rated Excitation:

5-15 VDC max.

Insulation Resistance:

> 5000 Megohms

Cable Length:

5 m

Cable Color Code:

Red+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue –	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/C4



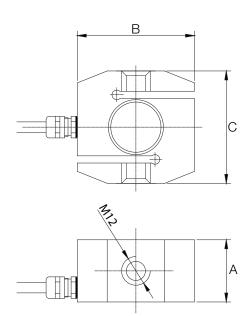


Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
300 kg	173291	Consult
750 kg	173293	Consult
1000 kg	173294	Consult

Nominal Capacity	A	В	C
mm			
300 kg	20	49	47
500 - 1000 kg	26	49	47





Picture is a representation of actual product

Load Rating	Part#	Price
300 kg	173295	Consult
500 kg	173296	Consult
750 kg	173297	Consult
1000 kg	173298	Consult

Dimensions

Nominal Capacity	Α	В	C
mm			
300 kg	20	49	47
500 - 1000 kg	26	49	47

Specifications

Full Scale Output:

 $2.0 \,\mathrm{mV/V} \pm 0.1\% \,\mathrm{mV/V}$

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

350 ohms ± 3

Material/Finish:

Stainless steel

Temperature:

-30° C to 70° C

Seal Type:

Welded seal, IP68

Rated Excitation:

5-15 VDC max.

Insulation Resistance: > 5000 Megohms

Cable Length:

5 m

Cable Color Code:

Red	+ Excitation
Black	
Green	+ Signal
White	
Yellow	+ Sense
Blue	Sense

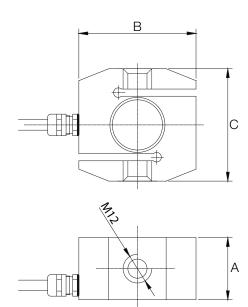
Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C4





Full Scale Output:

 $2,0\,\text{mV/V}\pm0.1\%\,\text{mV/V}$

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

350 ohms \pm 3

Material/Finish:

Alloy steel

Temperature:

-30° C to 70° C

Seal Type:

Welded seal, IP67

Rated Excitation:

5-10 VDC max.

Insulation Resistance:

> 5000 Megohms

Cable Length:

5 m

Cable Color Code:

Kea+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Rlue -	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/C4



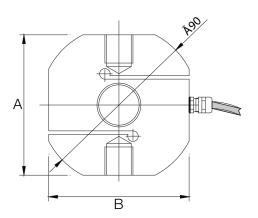


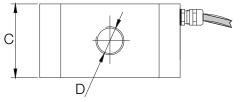
Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
750 kg	173299	Consult
1000 kg	173300	Consult
1500 kg	173301	Consult
2000 kg	173302	Consult
2500 kg	173303	Consult
3000 kg	173304	Consult
4000 kg	173305	Consult
5000 kg	173306	Consult
6000 kg	173307	Consult
10000 kg	173308	Consult

Nominal Capacity	A	В	C	D	
mm					
750 kg	80	80	35	M12	
1.000 kg	80	80	35	M12	
1.500 kg	80	80	35	M16	
2.000 kg	80	80	42	M16	
3.000 kg	80	80	42	M24x2	
5.000 kg	80	80	42	M24x2	
6.000 kg	80	80	42	M24x2	
10.000 kg	80	80	52	M24x2	





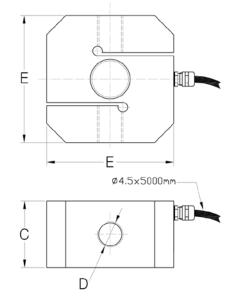


Picture is a representation of actual product

		<u> </u>
Load Rating	Part#	Price
750 kg	173309	Consult
1.000 kg	173310	Consult
1.500 kg	173311	Consult
2.000 kg	173312	Consult
2.500 kg	173313	Consult
4.000 kg	173314	Consult
5.000 kg	173315	Consult
6.000 kg	173316	Consult
10.000 kg	173317	Consult

Dimensions

Nominal Capacity	С	D	E
mm			
750 kg	35	M12	80
1.000 kg	35	M12	80
1.500 kg	35	M16	80
2.000 kg	42	M16	80
2.500 kg	42	M16	80
4.000 kg	42	M24x2	80
5.000 kg	42	M24x2	80
6.000 kg	42	M24x2	80
10.000 kg	52	M24x2	80



Specifications

Full Scale Output:

 $2.0 \,\text{mV/V} \pm 0.1\% \,\text{mV/V}$

Output Resistance:

 $350 \text{ ohms} \pm 3$

Input Resistance:

350 ohms \pm 3

Material/Finish:

Stainless steel

Temperature: -30° C to 70° C

Seal Type:

Welded seal, IP67

Rated Excitation:

5-15 VDC max.

Cable Length:

Insulation Resistance:

> 5000 Megohms

5 m

Cable Color Code:

Red+	Excitation
Black	Excitation
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C4



Full Scale Output:

2,0 mV/V

Output Resistance:

700 ohms, ±5

Input Resistance:

800 ohms, ±30

Material Finish:

Stainless steel

Temperature:

-10° C to 40° C

Seal Type:

Hermetically sealed, IP68

Safe Overload:

200%

Rated Excitation:

100

Combined Error:

<±0,05%

Insulation Resistance:

>5.000 megohms

Cable Length:

10 m

Cable Construction:

PVC

Cable Color Code:

Green	+ Excitation
Black	Excitation
Red	+ Signal
White	
Blue	+ Sense
Vellow	 Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C1



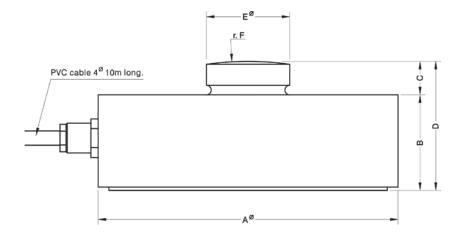


Order Information

Picture is a representation of actual product

Load Rating	Part#	Est. Weight	Price
2,5 t	160846	1,1 kg	Consult
5t	160847	1,1 kg	Consult
10t	160848	1,1 kg	Consult
20t	160849	2,8 kg	Consult
30 t	160850	2,8 kg	Consult
Options			
Consult	ATEX versions		Consult

Rated Capacity	Α	В	C	D	E	R.F
mm						
2,5-10t	82	32	12	44	22	130
20-30t	126	40	14	54	35	200





Picture is a representation of actual product

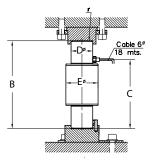
Load Rating	Part#	Est. Weight	Price
*15t	160864	2,5 kg	Consult
*20t	160865	2,5 kg	Consult
*25t	160866	2,6 kg	Consult
*30t	160867	2,6 kg	Consult
*40 t	160868	2,8 kg	Consult
*60 t	160869	3,8 kg	Consult
**100 t	161138	11 kg	Consult
**200 t	161139	11 kg	Consult
**400 t	161140	23 kg	Consult
**600 t	161141	27 kg	Consult
Consult	Digital	15-60 t	Consult
Options			
Consult	ATEX versions		Consult

^{*15}t to 60t OIML approved at 4.000 divisions

Dimensions

Rated Capacity	В	С	D	E	
mm					
15-20t	150	123	44	76	
25 t	150	123	44	76	
30t	150	123	44	76	
40 t	150	123	44	76	
60 t	210	153	44	76	
100 t	260	208	64	104	
200 t	260	208	64	104	
400 t	260	208	109	140	
600 t	260	208	118	140	





Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

 $705 \text{ ohms}, \pm 5$

Input Resistance:

 $800 \text{ ohms}, \pm 5$

Material Finish:

Stainless steel

Temperature:

-10°C to 40°C

Seal Type:

Hermetically sealed, IP68/IP69K

Safe Overload:

150%

Rated Excitation:

10V

Combined Error:

<±0,013%

Insulation Resistance:

>5.000 megohms

Cable Length:

18 m

Cable Construction:

PVC

Cable Color Code:

Green+	Excitation
Black	Excitation
Red+	Signal
White	Signal
Blue+	Sense
Yellow	Sense

Warranty:

One-year limited warranty

Approvals:





256

^{**100}t to 600t OIML approved at 1.000 divisions

Full Scale Output:

2,0 mV/V

Output Resistance:

700 ohms, ±3

Input Resistance:

800 ohms, ± 3

Material Finish:

Stainless steel

Temperature:

-10° C to 40° C

Seal Type:

Welded seal, IP69K

Safe Overload:

150%

Rated Excitation:

15V

Combined Error:

0.02%

Insulation Resistance:

>5000 megohms

Cable Length:

5 m

Cable Construction:

PVC.

Cable Color Code:

Red+	Excitation
Black	
Green+	Signal
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/C4

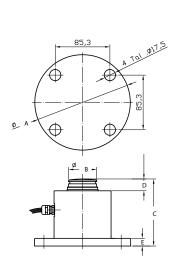


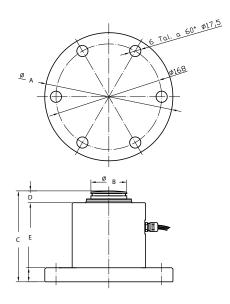
Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
15t	161223	Consult
20 t	161224	Consult
25t	161225	Consult
30 t	161226	Consult
35 t	161227	Consult
40 t	161226	Consult
50 t	161229	Consult
75 t	161230	Consult
100 t	161231	Consult
200 t	161232	Consult

Rated Capacity	A	В	С	D	E
mm					
15 - 40t	150	44	104	18	12
50 - 200 t	200	56	142	18	17





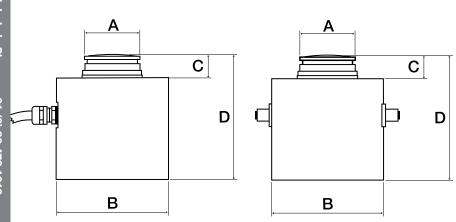


Picture is a representation of actual product

• • • • • • • • • • • • • • • • • • • •	7 10 10 10	a representation or detail product
Load Rating	Part#	Price
15t	161293	Consult
20t	161294	Consult
25 t	161295	Consult
30t	161296	Consult
35t	161297	Consult
40 t	161298	Consult
50 t	161299	Consult
75 t	161300	Consult
100 t	161301	Consult
200 t	161302	Consult

Dimensions

Rated Capacity	A	В	C	D
mm				
15 - 40 t	44	89	18	99
50 - 100 t	56	114	19	127



Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

700 ohms, ±3

Input Resistance:

800 ohms, ± 3

Material Finish: Stainless steel

Temperature:

-10°C to 40°C

Seal Type:

Welded seal, IP69K

Safe Overload:

Rated Excitation:

15V

Combined Error:

0,02%

Insulation Resistance:

>5.000 megohms

Cable Length:

15 m

Cable Construction:

PVC

Cable Color Code:

neu+	EXCITATION
Black	Excitation
Green+	Signal
White	
Yellow+	
Blue –	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/C4

Full Scale Output:

2,0 mV/V

Output Resistance:

 $700 \text{ ohms}, \pm 3$

Input Resistance:

800 ohms, ± 3

Material Finish:

Stainless steel

Temperature:

-10° C to 40° C

Seal Type:

Welded seal, IP69K

Safe Overload:

Rated Excitation:

15V

Combined Error: 0,02%

Insulation Resistance:

>5.000 megohms

Cable Length:

15 m

Cable Construction:

PVC

Cable Color Code:

Kea	+ Excitation
Black	
Green	+ Signal
White	Signal
Yellow	+ Sense
Blue	Sense

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 C3/C4

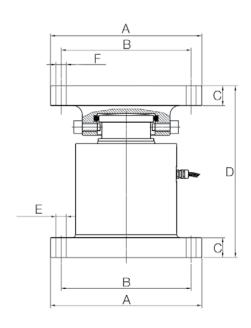


Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
15t	161329	Consult
20t	161330	Consult
25t	161331	Consult
30t	161332	Consult
35 t	161333	Consult
40 t	161334	Consult
50 t	161335	Consult
75 t	161336	Consult
100 t	161337	Consult
200 t	161338	Consult

Rated Capacity	A	В	С	D	F	F	G
mm							
15 - 40 t	250	215	32	277	150	.ø17	.ø17
50 - 200 t	250	215	32	277	150	ø17	ø17





Picture is a representation of actual product

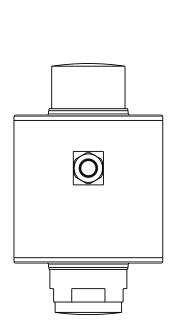
Load Rating	Part#	Price
10t	168082	Consult
15t	168083	Consult
20t	168084	Consult
25t	168085	Consult
30t	168087	Consult
35t	168088	Consult
40t	168089	Consult
50 t	168090	Consult

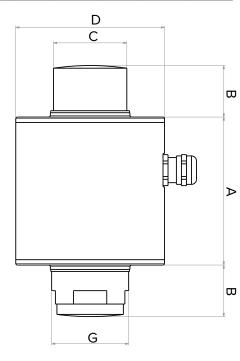
Options

Part#	Description	Price	
173793	Stainless steel cup set	Consult	

Dimensions

Rated Capacity	A	В	С	D	E	F	G	Н
mm								
10 - 50 t	88,4	30,8	Ø 43,8	Ø88,9	41,5	Ø39,7	Ø 46	Ø43,8





Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

700 ohms, ± 3

Input Resistance:

800 ohms, \pm 3

Material Finish:

Stainless steel

Compensated Temperature:

-10°C to 40°C

Operating Temperature:

-10° C to 70° C

Seal Type:

Welded seal IP69 K

Rated Excitation:

15V

Vmin:

Emax/14000

Insulation Resistance:

>5.000 megohms

Cable Length:

20 m

Cable Construction:

PVC

Cable Color Code:

Kea+	Excitation
Black	
Green+	
White	Signal
Yellow+	Sense
Blue	Sense

Warranty:

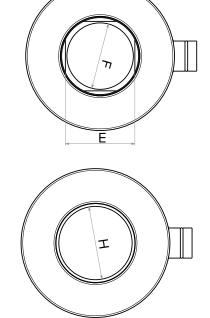
Two-year limited warranty

Approvals:





R60 C4



Transmission Speed:

100 kHz (max)

Current Consumption:

 $35\,\text{mA}$

Conversions Per Second:

40s

Material Finish:

Stainless steel

Certified Temperature:

-10° C to 40° C

Operating Temperature:

-20° C to 70° C

Seal Type:

Hermetically sealed, IP69K

Rated Excitation:

15V

Vmin:

Emax/15000

Insulation Resistance:

>5.000 megohms

Cable Length:

15 m

Cable Construction: PVC

PVC

Warranty:

Two-year limited warranty

Approvals:

EU

LEGAL FOR TRADE CERTIFIED



Order Information

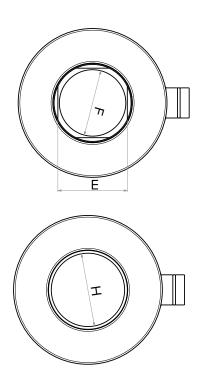
Picture is a representation of actual product

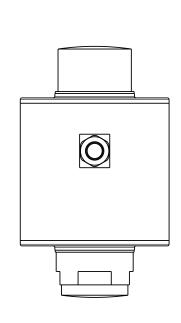
Load Rating	Part#	Price
10 t	173429	Consult
15 t	173430	Consult
20 t	173431	Consult
25 t	173432	Consult
30 t	173433	Consult
35 t	173434	Consult
40 t	173435	Consult
50 t	173436	Consult

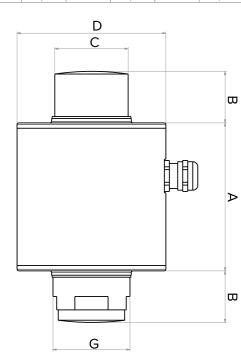
Options

Part#	Description	Price
173793	Stainless steel cup set	Consult

Rated Capacity	A	В	C	D	E	F	G	н
mm								
10 - 50 t	88,4	30,8	Ø43,8	Ø88,9	41,5	Ø39,7	Ø 46	Ø43,8









Picture is a representation of actual product

Load Rating	Part#	Price
30t	195843	Consult
40t	195844	Consult

Cables					
	1 Connect	or		2 Connecto	or
Length	Part #	Price	Length	Part#	Price
15 m	182733	Consult	4 m	182736	Consult
25 m	182734	Consult	7 m	182737	Consult
50 m	182735	Consult	9 m	182738	Consult

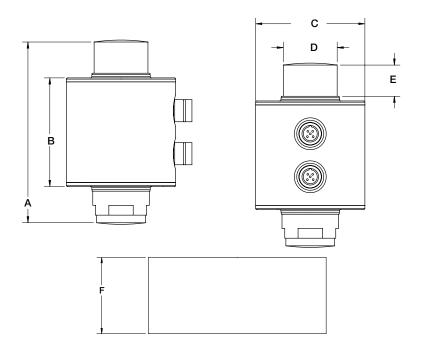
Options

Picture is a representation of actual product

Part#	Description	Price
173798	Stainless steel cup set	Consult

Dimensions

Rated Capacity	A	В	С	D	E	F	G	Н
mm								
30 - 40 t	150	88	Ø 89	Ø44	25	36	32	Ø84



Specifications

Transmission Speed:

100 kHz (max)

Current Consumption:

35 mA

Conversions Per Second:

40 s

Material Finish:

Stainless steel

Certified Temperature:

-10° C to 40° C

Operating Temperature:

-35° C to 70° C

Seal Type:

Hermetically sealed, IP68

Rated Excitation:

15V

Vmin:

Emax/15000

Insulation Resistance:

>5.000 megohms

Cable Length:

 $4\,\text{m},\,7\,\text{m}, \, 9\text{m},\,15\,\text{m},\,25\,\text{m},\,50\,\text{m}$

Cable Construction:

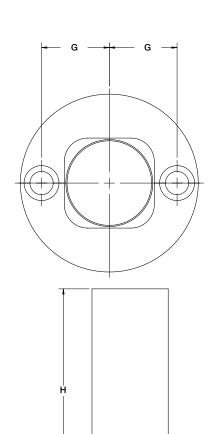
PVC

Warranty:

Two-year limited warranty

Approvals:





Full Scale Output:

2 mV/V

Output Resistance:

 $700 \text{ ohms} \pm 3$

Input Resistance:

800 ohms \pm 3

Material/Finish:

Stainless steel

Compensated Temperature:

-10° C to 40° C

Operating Temperature:

-10° C to 70° C

Seal Type:

Hermetically sealed, IP69K

Rated Excitation:

15V

Vmin:

Emax/18000

Insulation Resistance:

5000 Megohms

Cable Length:

20 m

Cable Construction:

PVC

Cable Color Code:

neu+	EXCITATION
Black	Excitation
Green+	Signal
White	
Yellow+	Sense
Blue -	Sense

Warranty:

Two-year limited warranty

Approvals:





R60 C6



Order Information

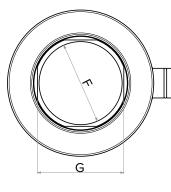
Picture is a representation of actual product

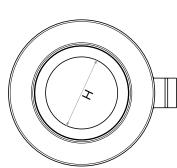
Load Rating	Part#	Price
10t	177959	Consult
15t	177960	Consult
20t	177961	Consult
25t	177962	Consult
30 t	177963	Consult
35 t	177964	Consult
40 t	177965	Consult
50 t	177967	Consult

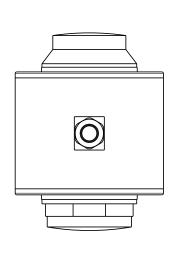
Options

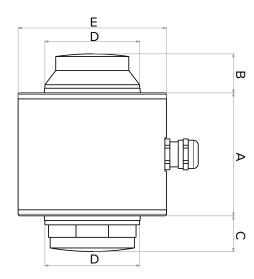
Part#	Description	Price
173798	Stainless steel cup set	Consult

Rated Capacity	A	В	С	D	E	F	G	н
mm								
10 - 50t	73,7	23,4	21,4	Ø56,8	Ø88,9	Ø50,5	52,5	Ø43,8











Picture is a representation of actual product

Load Rating	Part#	Price
10 t	177779	Consult
15 t	177780	Consult
20 t	177781	Consult
25 t	177782	Consult
30 t	177783	Consult
35 t	177784	Consult
40 t	177785	Consult
50 t	177786	Consult

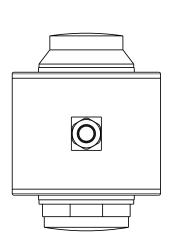
^{*}Versions with connectors available, consult factory

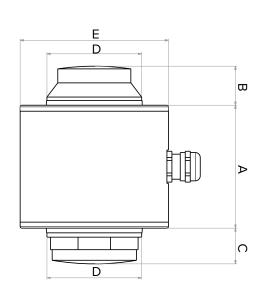
Options

Part#	Description	Price
173798	Stainless steel cup set	Consult

Dimensions

Rated Capacity	A	В	С	D	E	F	G	Н
mm								
10 - 50 t	73,7	23,4	21,4	Ø56,8	Ø88,9	Ø 50,5	52,5	Ø43,8







Transmission Speed:

100 kHz (max)

Current Consumption:

 $35\,\text{mA}$

Conversion per Second:

40 s

Material/Finish:

Stainless steel

Certified Temperature:

-10° C to 40° C

Operating Temperature:

-20° C to 70° C

Seal Type:

Hermetically sealed, IP69K

Rated Excitation:

15V

Vmin:

Emax/18000

Insulation Resistance:

>5000 Megohms

Cable Length:

15 m

Cable Construction:

PVC

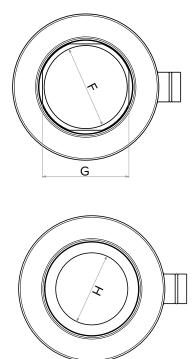
Warranty:

Two-year limited warranty

Approvals:

EU

LEGAL FOR TRADE CERTIFIED



Transmission Speed:

100 kHz (max)

Current Consumption:

 $35\,\text{mA}$

Conversion per Second:

40 s

Material/Finish:

Stainless steel

Certified Temperature:

-10° C to 40° C

Operating Temperature:

-35° C to 70° C

Seal Type:

Hermetically sealed, IP68

Rated Excitation:

 $15VDC/8 \div 15$

Vmin:

Emax/18000

Insulation Resistance:

5000 Megohms

Cable Length:

 $4\,m,\,7\,m,\,9m,\,15\,m,\,25\,m,\,50\,m$

Cable Construction:

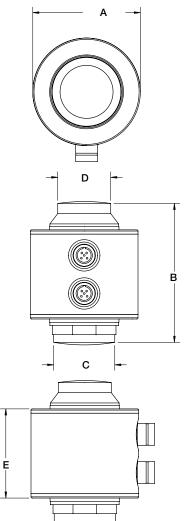
Polyurethane

Warranty:

Two-year limited warranty

Approvals:

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Order Information

Picture is a representation of actual product

Load Rating	Part#	Price
30 t	195845	Consult
40 t	195846	Consult

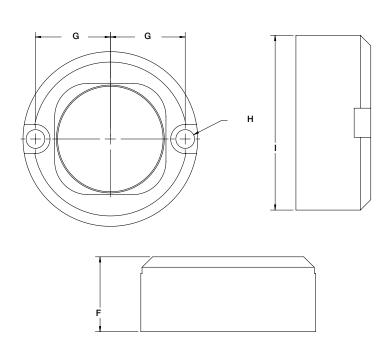
Cables					
	1 Connect	or		2 Connecto	or
Length	Part #	Price	Length	Part#	Price
15 m	182733	Consult	4 m	182736	Consult
25 m	182734	Consult	7 m	182737	Consult
50 m	182735	Consult	9 m	182738	Consult

Options

Picture is a representation of actual product

Part#	Description	Price
173798	Stainless steel cup set	Consult

Rated Capacity	A	В	C	D	E	F	G	Н	I .
mm									
30 - 40 t	ø Ø 89	114	Ø51	Ø44	74	36	36	ø 9	Ø84



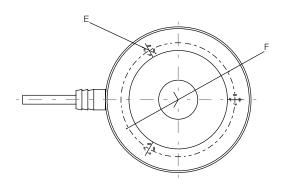


Picture is a representation of actual product

Load Rating	Part Number	Price
250 kg	185195	Consult
500 kg	185196	Consult
1.000 kg	185197	Consult
2.500 kg	185198	Consult
5.000 kg	185199	Consult
7.500 kg	185200	Consult
12.500 kg	185201	Consult
15.000 kg	185202	Consult
30.000 kg	185203	Consult
50.000 kg	185204	Consult
100.000 kg	185205	Consult
Mounts		
250-12.500 kg	185208	Consult
15.000 kg	185209	Consult
30.000 kg	185210	Consult
50.000-100.000 kg	185211	Consult
250-12.500 kg alloy steel	185212	Consult

Dimensions

Nominal Capacity	A	В	C	D	E	F
mm						
250-12.500 kg	Ø82	Ø22	44	32	N°3 M8	Ø70
15.000 kg	Ø100	Ø28	48,5	35	N°3 M10	Ø80
30.000 kg	Ø126	Ø35	54	40	N°3 M12	Ø90
50.000-100.000 kg	Ø165	Ø60	80	60	N°3 M16	Ø130



Specifications

Full Scale Output:

2,0 mV/V

Output Resistance:

 $700 \text{ ohms} \pm 5$

Input Resistance:

750 ohms \pm 10

Material/Finish:

Stainless steel

Temperature: -10° C to 40° C

Seal Type:

Welded seal, IP68

Safe Overload:

120% FS

Rated Excitation:

10 VDC (15 VDC max)

Combined Error:

0.05% FS

Insulation Resistance:

> 5.000 Megohms

Cable Length:

5m 250-5.000 kg 10m 7.500-100.000 kg

Cable Color Code:

Rea	+ Excitation
Black	Excitation
Green	+ Signal
White	– Signal

Warranty:

One-year limited warranty

Approvals:

Complies with OIML R60 Capacities 2.500 to 12.500



С D

Standard Features

- 23-74 mm diameter x <305 mm loaded length
- · Internally gauged load pin
- Idler sheave or dead end pin preferred location
- . Minimum 5:1 safety factor
- 17/4 stainless steel construction
- ±1% to 3% accuracy of hoist capacity
- -40°C to 60°C operating temperature



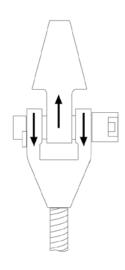
A key component for MSI's integrated overhead weighing solutions is the Load Pin Sensor. Typically designed and manufactured specifically to each integrated solution, the MSI load pin is strictly industrial grade. Each load pin design is precision machined from 17-4 stainless steel for safety, strength and corrosion resistance.

Each strain gauge location is precisely calculated and correctly placed in the optimum concentrated stress area of each installation. This MSI-applied engineering process ensures the most efficient and accurate performance for each specific installation.

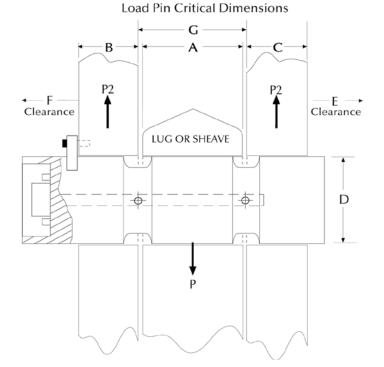
MSI load pin designs apply only internally mounted strain gauges for complete protection from the outside environment.

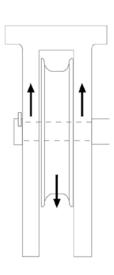
To receive a quotation for a load pin sensor to meet your application requirements, complete the load pin questionnaire also located at www.ricelake.com or contact an MSI overhead weighing specialist for further application assistance.

MSI-Load Pin Questionnaire



Standard Load Sensing Clevis Pin for Wire Rope Sockets Dead-Ends





Sheave/Pulley Load Pins Equalizer/Idler

Load Pin Data A=Width __ B=Width _____ Inch C=Width ____ _____ Inch D=Pin Diameter___ _____ Inch E=Clearance _____ Inch F=Clearance _____ Inch G=Width_ _____ Inch Lube Port □No □Yes _____ # of exits __ Tons Hoist Capacity _____ Parts of Wire Rope _____ Sensor Capacity ______ T Factor of Safety □3:1 □5:1 □7:1 □10:1 _ Tons Application _ Accuracy Requirement ___ Temperature Requirement ____ Required Output __ Material Testing Requirement ____ Load Vector Orientation/Alignment □← □→ □↓ □↑ Name_ Company___ Phone_ Note: Minimum clearance between "A" and "G" = 0.0625 inch.

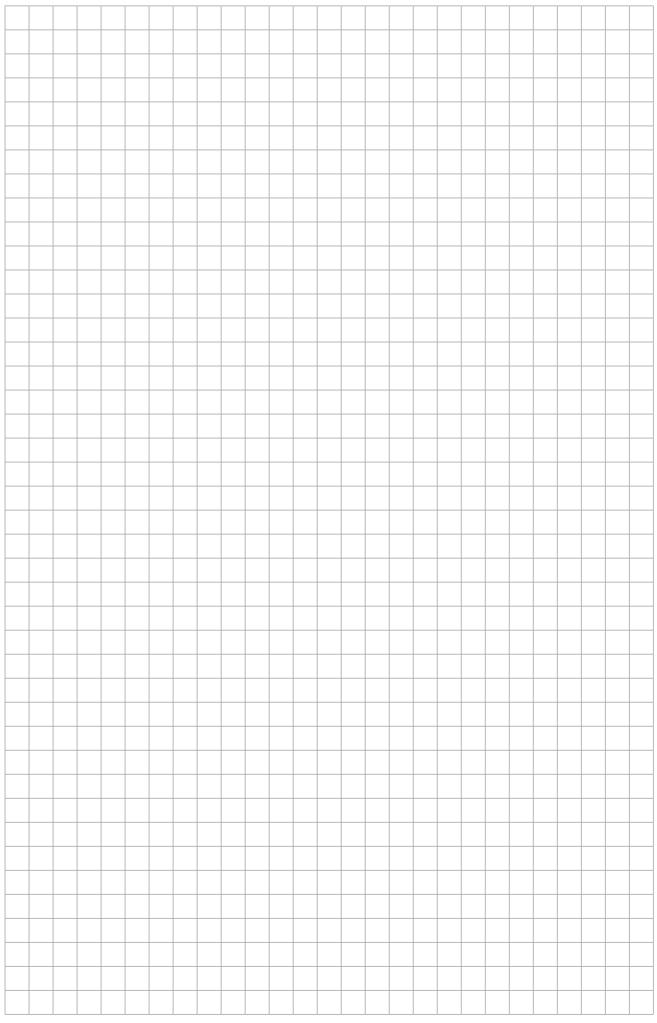
	onnections
End-Mounted	
Cable	
End-Mounted	
Connector (standard)	
Side-Mounted	
Cable	
Side-Mounted	
Connector	
Recessed	
Connector	
Sensor's Cable Length_	Feet
Comments	



230 W. Coleman St. • Rice Lake, WI 54868 • USA TEL: 800-874-4320 • FAX: 206-244-8470 • www.ricelake.com/msi

An ISO 9001 registered company © 2019 Rice Lake Weighing Systems PN 154086 10/19 Specifications subject to change without notice.

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WEIGH MODULES WITHOUT LOAD CELLS

RL30

Small to Medium Capacity



Applications

- · Small tanks and hoppers
- Conveyors and in-motion weighing
- · Small platform scales

Base plate provides good mounting option for the RL30 load cell. Designed to custom fit the bending beam load cell design.

Standard Features

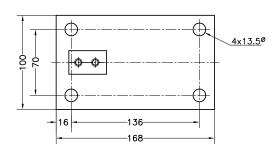
- Available in zinc or stainless steel
- Designed to work with RL30 load cells

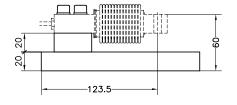
Order Information

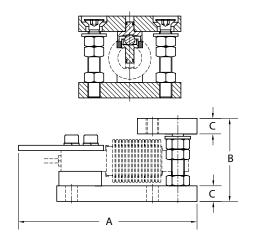
Picture is a representation of actual product

Load Rating	Part#	Description	Price
Base Plate			
5 to 500 kg	160870	Zinc plated	Consult
5 to 500 kg	160874	Stainless steel	Consult
Lift-off Prevention			
5 to 500 kg	161104	Zinc plated	Consult
5 to 500 kg	161105	Stainless steel	Consult
Neoprene Rubber Mount S	et Top		
5 to 200 kg	157677		Consult

Note: Refer to page 234 for load cell information



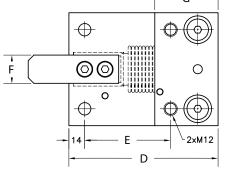


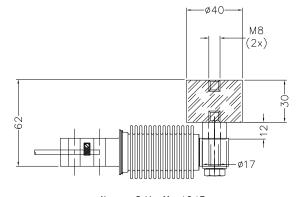


Base Plate

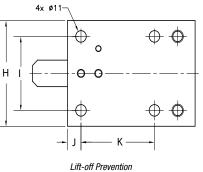
Dimensions

Rated Capacity	A	В	C	D	E	F	G	Н	ı	J
mm										
5 to 500 kg	168	136	16	100	70	124	60	4X14	20	20





Neoprene Rubber Mount Set Top



Dimensions

Rated Capacity	A	В	C	D
mm				
5 to 200 kg	40	30	17	12

Rated Capacity	A	В	C	D	E	F	G	Н	I.	J	K
mm											
5 to 500 kg	168	80	15	132	76	25	56	100	70	14	76

WEIGH MODULES WITHOUT LOAD CELLS

RL35

Mount Options, Small to Light Capacity



Complete mounting solutions for the RL35 single-end beam load cell. Lift-off mount provides protection for the RL35 load cell. Mounting solutions available in alloy or stainless steel. Base plate is available to fill application needs for plate only. Lift-off silent block works in conjunction with base plate to provide correct protection. Ball set provides correct oscillation for mounting applications.

Standard Features

- Stainless steel and rubber models available
- · Designed to work with RL35 load cells
- Lift-off mount
- · Base plate only
- · Ball set for oscillation
- Lift-off silent block

Applications

- · Small tanks and hoppers
- · Conveyors and in-motion weighing
- Small platform scales

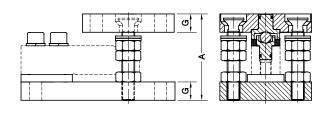
Order Information: Stainless Steel

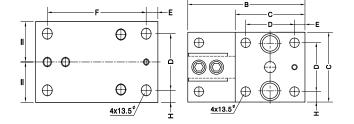
Nominal Capacity	Part #	Est. Weight	Price
Lift-off Mount			
0,3 to 2t	161107	4,5 kg	Consult
3 to 5 t	161109	8,5 kg	Consult
Base Plate			
0,3 to 2t	161111	3,2 kg	Consult
3 to 5 t	161113	5,8 kg	Consult
Elastomer Tank Kit			
0,3 to 2t	160872	2 kg	Consult
3 to 5 t	160873	3,2 kg	Consult
Stainless Steel Ball Set			
0,3 to 2t	163042	0,1 kg	Consult
3 to 5 t	163043	0,15 kg	Consult
Neoprene Rubber Mount	Тор		
0,3 to 1 t	157678	1 kg	Consult
2t	157679	1 kg	Consult
Load Foot			
0,3 to 2 t	168689	1 kg	Consult
0,3 to 2 t	168691	1 kg	Consult
0,3 to 2 t, self centering	168690	1 kg	Consult

Note: Refer to "RL35" on page 221 for load cell information Mounts and load feet do not include load cell

Order Information: Alloy Steel

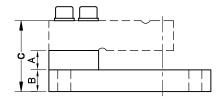
Nominal Capacity	Part #	Est. Weight	Price
Lift-off Mount			
0,3 to 2 t	161106	4,5 kg	Consult
3 to 5 t	161108	8,5 kg	Consult
Base Plate			
0,3 to 2 t	161110	3,2 kg	Consult
3 to 5 t	161112	5,8 kg	Consult





Lift-off Mount

4x13.5° 4x13.5°



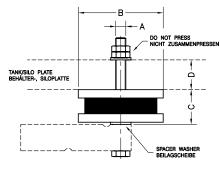
Base Plate

Dimensions

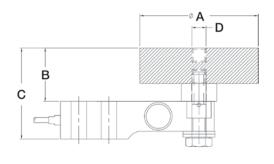
Rated Capacity	A	В	С	D	E	F	G	н
mm								
0,3 - 2t	94	168	100	70	16	136	20	15
3 to 5 t	113	212	120	84	19	175	25	18

Dimensions

Rated Capacity	A	В	С	D	E	F	G	Н	ı	J
mm										
0,3 - 2t	20	20	72	168	136	16	70	100	102	118
3 to 5 t	20	25	93	212	175	19	84	120	134	152



Elastomer Tank Kit



Neoprene Rubber Mount Top

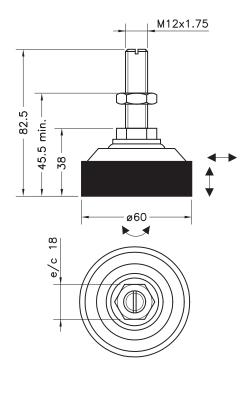
Dimensions

Rated Capacity	A	В	C	D
mm				
0,3 to 2 t	M12	100	41	0-35
3 to 5 t	M20	150	44	10-35

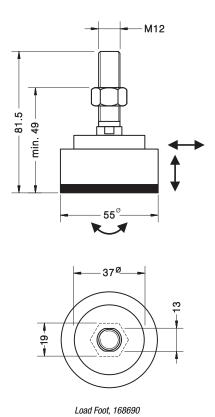
Rated Capacity	A	В	С	D	
mm					
0,3 to 1 t	100	45	76.8	M12	
2t					

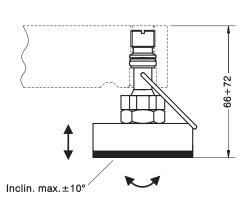
WEIGH MODULES WITHOUT LOAD CELLS

RL35Mount Options, Small to Light Capacity

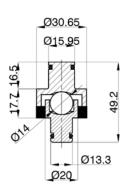


Load Foot, 168689

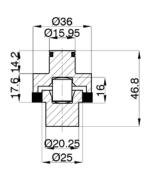




Load Foot, 168691



Stainless Steel Ball Set 0,3 to 2 ton



Stainless Steel Ball Set 3 to 5 ton

• Tank, hopper or vessel weighing



The RL42 weigh modules, available in alloy steel and stainless steel, are ideal for use in tank, hopper, vessel and many other applications.

The low-profile design offers an economical solution in a competitive marketplace.

This rugged, high-precision mount is designed for easy installation.

Standard Features

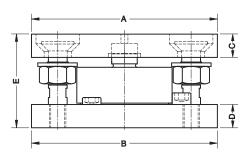
- Capacities 2,5 to 30 ton
- Low profile design
- · Lift-off protection design

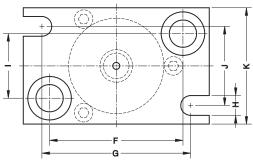
Order Information

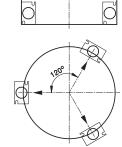
Nominal Capacity	Part #	Price
Alloy		
2,5 / 5 / 10 t	161114	Consult
20 - 30 t	161116	Consult
Stainless Steel		
2,5 / 5 / 10 t	161115	Consult
20 - 30 t	161117	Consult

Note: Refer to page 255 for load cell information

Rated Capacity	Α	В	C	D	E	F	G	Н	1	J	K
mm											
2,5, 5, 10 t	160	160	20	20	80	115	128	17	56	68	100
20 - 30 t	218	218	25	25	100	168	180	21	100	100	150







· Silo weighing



The RL46 mount module kit utilizes the RL46 load cell to provide an excellent level of performance in tank and hopper weighing applications.

Each module features lift-off prevention for silos.

Standard Features

- Module capacities from 5 to 100 tons
- · Alloy steel or stainless steel mounts
- Lift-off prevention

Order Information

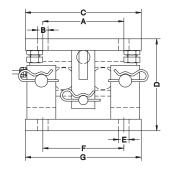
Nominal Capacity	Part #	Est. Weight	Price
Alloy			
5 to 20 t	161118	17 kg	Consult
30 to 50 t	161120	39 kg	Consult
75 to 100 t	161122	82 kg	Consult
Stainless Steel			
5 to 20 t	161119	17 kg	Consult
30 to 50 t	161121	39 kg	Consult
75 to 100 t	161123	82 kg	Consult

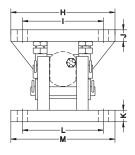
Note: Refer to page 235 for load cell information

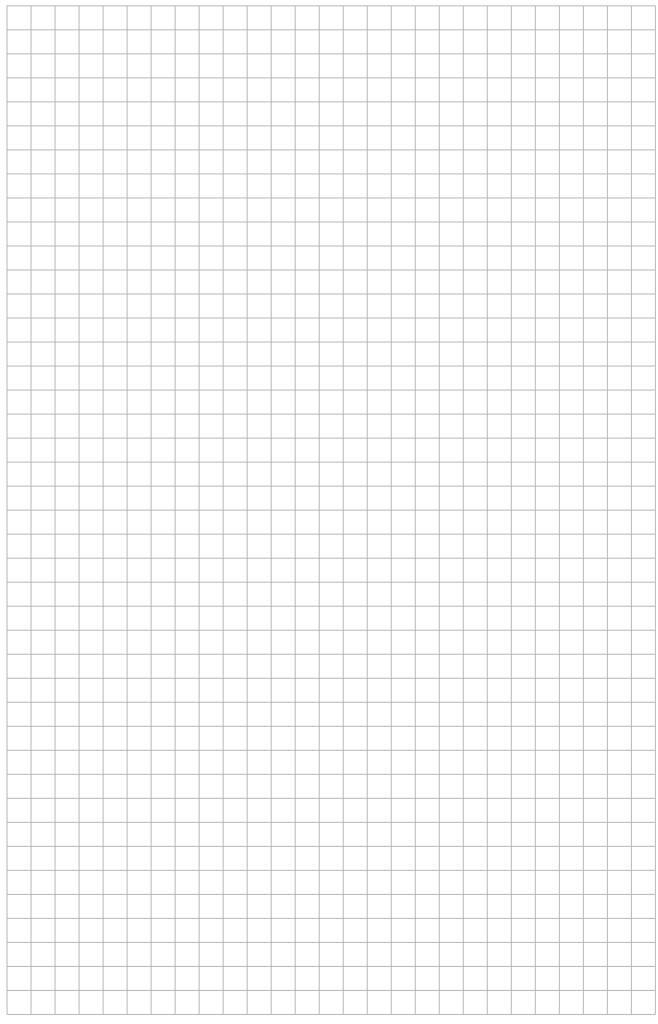
Rated Capacity	Α	В	C	D	Е	F	G	Н	1	J	K	L	М
mm													
5 to 20 t	140	18	200	160	18	140	200	180	140	20	20	140	180
30 to 50 t	175	22	300	200	22	175	300	220	175	25	25	175	220
75 to 100 t	220	26	370	270	26	220	370	300	220	30	30	220	300















- Medium to high capacity tanks, bins and hoppers
- · Process control and batch weighing

The RL74 mount options are designed to specially work with the RL74 load cell.

The mount options provide excellent lift-off protection for silo weighing.

Standard Features

- · Capacities to 60t standard
- Steel alloy zinc plated mounts

Order Information: Lift-Off Mount

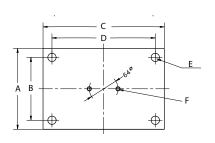
Nominal Capacity	Part#	Est. Weight	Price
Nickel			
15 - 40t	161124	3 kg	Consult
60 t	161126	3 kg	Consult
Stainless Steel			
15 - 40 t	161125	3 kg	Consult
60 t	161127	3 kg	Consult

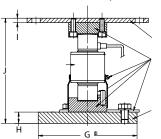
Order Information: Self-Alignment

Nominal Capacity	Part#	Est. Weight	Price
100 - 200 t	161128	7 kg	Consult
400 t	161129	27 kg	Consult
600 t	161130	36 kg	Consult

Order Information: Lift-Off Prevention

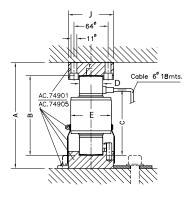
Nominal Capacity	Part#	Est. Weight	Price
15 - 40 t	161131	19kg	Consult
60t	161132	98 kg	Consult
100 to 200 t	161133	98 kg	Consult
400 t	161134	142 kg	Consult
600 t	161135	185 kg	Consult

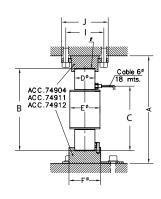




Dimensions

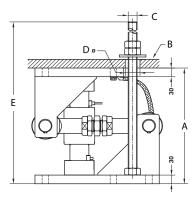
Rated Capacity	A	В	C	D	E	F	G	Н	I	J
mm										
15 - 40 t	180	140	270	230	4x19	2 x M10	200	25	10	235
60 t	180	140	270	230	4x19	2 x M10	200	25	10	295

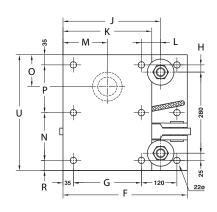




Dimensions

Rated Capacity	Α	В	C	D	F	G	Н	T	J	D Max	E Max	F Radius
mm												
15t - 20t	200	150	123	44		165	18	64	85	13	5	130
25 t	200	150	123	44		165	18	64	85	13	5	150
30 t	200	150	123	44		165	18	64	85	13	5	160
40 t	200	150	123	44		165	18	64	85	13	5	180
60 t	260	210	153	44		165	18	64	85	11	3	220
100t	340	260	208	64	100	165	17	120	147	18	4	290
200 t	340	260	208	64	100	165	17	120	147	9	2	400
400 t	400	260	208	109	160	200	21	190	220	8	1,4	700
600 t	440	260	208	118	160	200	21	190	220	8	1,4	800





Rated Capacity	A	В	С	D	E	F	G	Н	1	J	K	L	М	N	0	Р	Q	R
mm																		
15 - 40t	230	15	M20	28	500	280	115	115	33	198	160	58	83	103	200	65	50	15
60 t	300	20	M20	28	500	280	115	115	33	198	160	83	103	65	200	65	50	15
100 - 200t	400	30	M30	50	1000	420	230	120	25	330	300	65	150	165	400	165	110	35
400 t	460	30	M30	50	1030	460	230	120	25	346	316	65	166	165	400	165	110	35
600t	510	35	M33	55	1035	530	270	180	25	400	345	90	175	185	450	185	133	40



- · Medium capacity hoppers, bins or tanks
- · Chemical batching/blending
- · Fertilizer blending

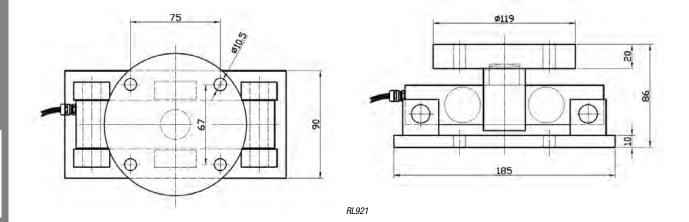
Mount Only. Does Not Include Load Cell

The RL92 Series mounting assembly utilizes the RL92 load cell and foot plate to provide an unmatched level of performance in tank and hopper weighing applications. The RL92 Series mount is ideally suited for indoor and outdoor process control operations with medium-range capacities. Modules are available with ball mount or standard mount, nickel-plated treatment or stainless steel construction.

Order Information (Includes load cell)

Nominal Capacity	Part #	Price
Teton / Nickel RL921N / Including	Base Plate	
3.000 kg	161149	Consult
4.000 kg	161153	Consult
5.000 kg	161157	Consult
7.500 kg	161161	Consult
10.000 kg	161165	Consult
Base Plate Only / Nickel RL92N		
3.000-10.000 kg	161147	Consult
Teton / Stainless Steel RL921S / I	ncluding Base Plate	
3.000 kg	161150	Consult
4.000 kg	161154	Consult
5.000 kg	161158	Consult
7.500 kg	161162	Consult
10.000 kg	161166	Consult
Base Plate Only / Stainless Steel	RL92S	
3.000-10.000 kg	161148	Consult

Note: Refer to page 236 for load cell information



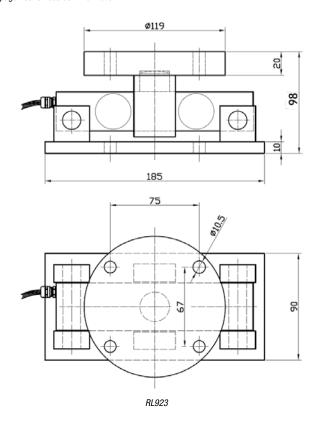
- Medium capacity hoppers, bins or tanks
- Chemical batching/blending
- Fertilizer blending



Mount Only. Does Not Include Load Cell **Order Information**

Nominal Capacity	Part #	Price
Ball / Nickel RL923N / Includ	ing Base Plate	
3.000 kg	161151	Consult
4.000 kg	161155	Consult
5.000 kg	161159	Consult
7.500 kg	161163	Consult
10.000 kg	161167	Consult
Base Plate Only / Nickel RL9	2N	
3.000-10.000 kg	161147	Consult
Ball / Stainless Steel RL923S	/ Including Base Plate	
3.000 kg	161152	Consult
4.000 kg	161156	Consult
5.000 kg	161160	Consult
7.500 kg	161164	Consult
10.000 kg	161168	Consult
Base Plate Only / Stainless S	teel RL92S	
3.000-10.000 kg	161148	Consult

Note: Refer to page 236 for load cell information





- Medium to heavy capacity tanks, blenders, reactors and bulk inventory management
- · Petroleum refining process control
- Chemical blending/batching

Mount Only. Does Not Include Load Cell

The RL93 Series mounting assembly utilizes the RL93 load cell and foot plate to provide an unmatched level of performance in tank and hopper weighing applications. The RL93 Series mount is ideally suited for indoor and outdoor process control operations with medium to heavy capacities. Modules are available with ball mount, round or square mount, nickel-plated or stainless steel construction.

Order Information: Stainless Steel

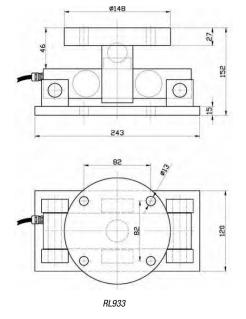
Nominal Capacity	Part #	Price		
RL931S / Including Base Plate				
5t	161177	Consult		
10t	161183	Consult		
15t	161189	Consult		
20t	161195	Consult		
25t	161201	Consult		
RL933S / Including Base Plate				
5t	161181	Consult		
10t	161187	Consult		
15t	161193	Consult		
20t	161199	Consult		
25t	161205	Consult		
Base Plate Only / RL93S				
5 - 25 t	161175	Consult		

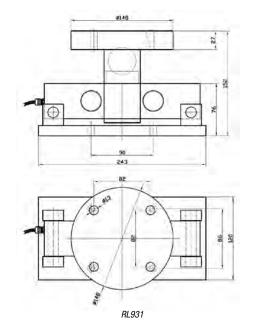
Note: Refer to page 237 for load cell information

Order Information: Nickel

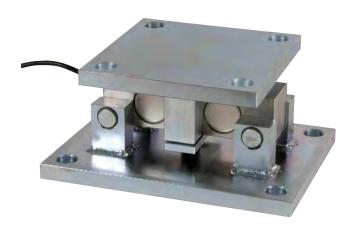
Nominal Capacity	Part #	Price
RL931N / Including Base Plate		
5t	161176	Consult
10t	161182	Consult
15t	161188	Consult
20 t	161194	Consult
25 t	161200	Consult
RL933N / Including Base Plate		
5t	161180	Consult
10t	161186	Consult
15t	161192	Consult
20 t	161198	Consult
25 t	161204	Consult
Base Plate Only / RL93N		
5 - 25 t	161174	Consult

Note: Refer to page 237 for load cell information





- Medium to heavy capacity tanks, blenders, reactors and bulk inventory management
- Petroleum refining process control
- Chemical blending/batching



Mount Only. Does Not Include Load Cell

The RL93 Series mounting assembly utilizes the RL93 load cell and foot plate to provide an unmatched level of performance in tank and hopper weighing applications. The RL93 Series mount is ideally suited for indoor and outdoor process control operations with medium to heavy capacities. Modules are available with ball mount, round or square mount, nickel-plated or stainless steel construction.

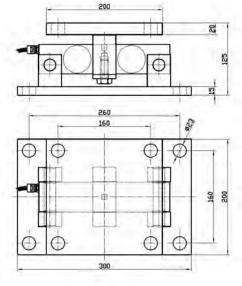
Order Information: Stainless Steel

Nominal Capacity	Part #	Price		
Square / stainless steel / RL932S				
5 - 25 t	161179	Consult		
10t	161185	Consult		
15t	161191	Consult		
20 t	161197	Consult		
25t	161203	Consult		

Order Information: Nickel

Nominal Capacity	Part #	Price
Square / nickel / RL932N		
5t	161178	Consult
10t	161184	Consult
15t	161190	Consult
20t	161196	Consult
25 t	161202	Consult

Note: Refer to page 237 for load cell information



RL932



- Heavy capacity tanks, blenders, reactors and bulk inventory management
- · Petroleum refining process control
- · Chemical blending/batching

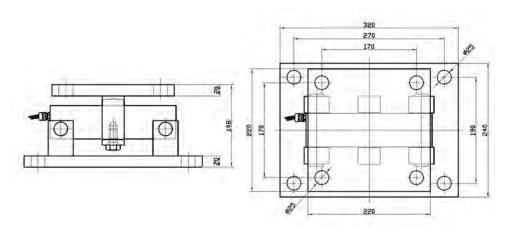
Mount Only. Does Not Include Load Cell

The RL942 mount assembly utilizes the RL94 load cell to provide an unmatched level of performance in tank and hopper weighing applications. The RL94 series mount is ideally suited for indoor and outdoor process control operations with medium to heavy capacities. The low-profile compression load cell features a fixed mounting system. Built-in protection against lateral forces is standard. Modules are available with nickel-plated or stainless steel construction.

Order Information

Nominal Capacity	Part #	Price
Nickel		
20t	161213	Consult
25t	161215	Consult
30t	161217	Consult
40 t	161219	Consult
50t	161221	Consult
Base plate only / RL94N		
20 - 50 t	161211	Consult
Stainless steel		
20t	161214	Consult
25t	161216	Consult
30t	161218	Consult
40 t	161220	Consult
50t	161222	Consult
Base plate only / RL94S		
20 - 50 t	161212	Consult

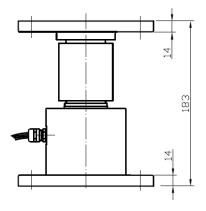
Note: Refer to page 238 for load cell information



RL964

Applications

- · Heavy capacity tanks, blenders, reactors and bulk inventory management
- Petroleum refining process control
- · Chemical blending/batching



Heavy Capacity Pendulum Mount Tank, Hopper and Vessel Weighing

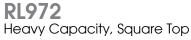
Mount Only. Does Not Include Load Cell

The RL964 mount is a low-profile compression load cell with autoadjusting mount. Ideal for process control, batch weighing, silo/hopper and best scale applications with the built-in protection against lateral forces. Nickel or stainless steel mounts in pendulum-mount design.

Order Information

Nominal Capacity	Part #	Price
Nickel		
40 t	161263	Consult
50 t	161269	Consult
75 t	161275	Consult
100t	161281	Consult
200 t	161287	Consult
Stainless steel		
50 t	161270	Consult
75 t	161276	Consult
100 t	161282	Consult
200 t	161288	Consult

Rated Capacity	A	В	С	D	E
mm					
Pendulum Support	183	12	12	85	150





- Heavy capacity tanks, blenders, reactors and bulk inventory management
- Petroleum refining process control
- Chemical blending/batching

Optional Features

· Load cell checking system

Mount Only. Does Not Include Load Cell

The RL972 mount is designed to be used with the RL97 load cell. Low-profile compression design allows mounts to be integrated into tank weigh module systems. Design moves with tilt of the plate to provide stable weighing. The mount can be installed without the load cell.

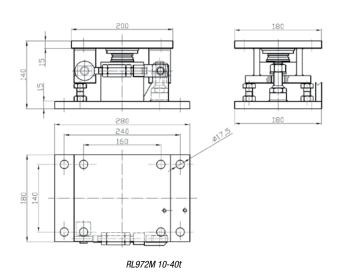
Order Information

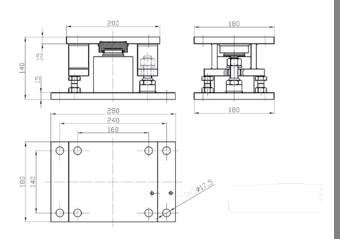
	-	
Nominal Capacity	Part #	Price
Nickel		
15t	161303	Consult
20 t	161305	Consult
25 t	161307	Consult
30 t	161309	Consult
35 t	161311	Consult
40 t	161313	Consult
50 t	161315	Consult
75 t	161317	Consult
100 t	161319	Consult
200 t	161321	Consult
Stainless Steel		
15 t	161304	Consult
20 t	161306	Consult
25 t	161308	Consult
30 t	161310	Consult
35 t	161312	Consult
40 t	161314	Consult
50 t	161316	Consult
75t	161318	Consult
100 t	161320	Consult
200 t	161322	Consult

Note: Refer to page 258 for load cell information

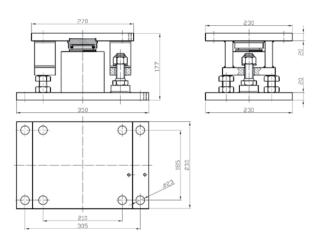
Options/Accessories

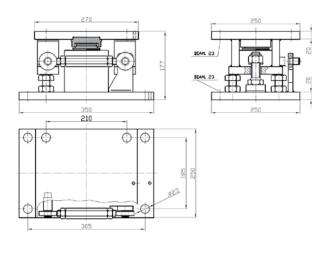
Description	Rating	Part #	Price
Nickel			
Load cell checking	40 t	161323	Consult
Load cell checking	100t	161325	Consult
Load cell checking	200 t	161327	Consult
Stainless Steel			
Load cell checking	40 t	161324	Consult
Load cell checking	100t	161326	Consult
Load cell checking	200t	161328	Consult





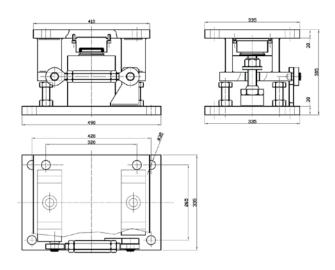
RL972 10 to 40 t





RL972 50 to 100 t

RL972M 50 to 100 t



RL972 200 t



Applications

- Heavy capacity tanks, blenders, reactors, and bulk inventory management
- · Petroleum refining process control
- Chemical blending/batching

Mount Only. Does Not Include Load Cell

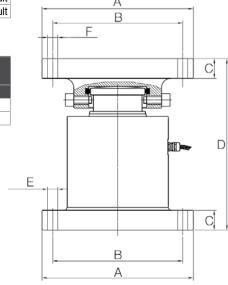
The RL981 tank, hooper and vessel weighing module is designed to meet heavy capacity weighing applications. A low-profile compression load cell is complete with a swivel and self-leveling top plate. Mount includes internal system of protection against lateral forces. Expansion joints between top plate and load cell body complete the design.

Order Information

Nominal Capacity	Part #	Price
Nickel		
15t	161339	Consult
20 t	161341	Consult
25 t	161343	Consult
30 t	161345	Consult
35 t	161347	Consult
40 t	161349	Consult
50 t	161351	Consult
75 t	161353	Consult
100 t	161355	Consult
Stainless Steel		
15t	161340	Consult
20 t	161342	Consult
25t	161344	Consult
30 t	161346	Consult
35 t	161348	Consult
40 t	161350	Consult
50 t	161352	Consult
75 t	161354	Consult
100t	161356	Consult

Note: Refer to page 259 for load cell information

Rated Capacity	A	В	С	D	F	F	G
mm							
15 - 40 t	250	215	32	277	150	.ø17	.ø17
50 - 100 t	250	215	32	277	150	.ø17	.ø17



Applications

- Medium capacity tanks, bins and hoppers
- · Process control and batching

Mount Configuration:

- Rocking system: rocking pin and bumper; free rocking pin and bumping rocking pin
- Sliding system: sliding pin and bumpers, free slinging pin and fixed pin



Mount Only. Does Not Include Load Cell

The 52-18RS is the ideal choice for status tank and hopper applications.

The 52-18SS (sliding pin) is ideal when very large expansions/contractions due to temperature or other reasons are expected.

Designed to work with SB4, SB5 and SLB load cells.

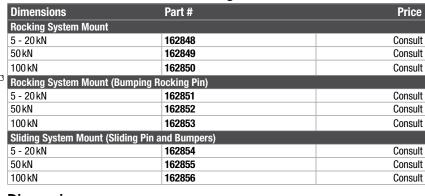
Standard Features

- Universal system
- Capacity range 100 to 10.000 kg
- Blind hole load introduction
- · Low profile
- Easy to install
- No check links needed
- Two basic versions:
- 52-18RS rocking system
- 52-18SS sliding system

Optional Features

- Overload protection
- Lift-off protection
- Welding plate
- · Bolting plate

Order Information (Free Rocking Pin)



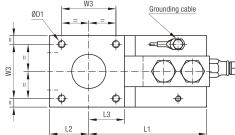
E P Included in delivery (8x)

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W1

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Rated Capac	ity	H1	H2	НЗ	H4	H5	Н6	L1	L2	L3	L4	L5	W1	W2	W3	D1	T1	Q1
mm																		
5-20 kM	V	100	63	25	25	27	14	130	45	40	140	41	80	80	58	9	M8	25 Nm
50 kN		135	84	35	35	35	13	165	55	50	169	41	100	100	76	11	M10	50 Nm
100 kN		195	128	50	50	50	18	205	80	60	215	41	120	150	90	14	M12	115 Nm



Specifications

Material/Finish:

Stainless steel

Cable Color Code:

N/A

Warranty:

One-year limited warranty

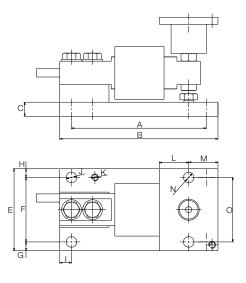
Mount Only. Does Not Include Load Cell

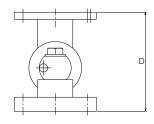
Order Information

Picture is a representation of actual product

Load Rating	Part Number	Price
10-500 kg	185219	Consult
Note: Refer to page 231 for load cell information		

Rated Capacity	A	В	С	D	E	F	G	Н	ı	J	K	L	М	N	0
mm															
10-500 kg	115	135	12	84,5	70	55	7,5	7,5	10	Ø9	M6	25	25	Ø9	55





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Specifications

Material/Finish: Nickel-plated/Stainless Steel

Warranty:

One-year limited warranty



Mount Only. Does Not Include Load Cell

Order Information

Picture is a representation of actual product

Load Rating	Part Number	Price
500-2.000 kg	185213 Nickel	Consult
500-2.000 kg	185214 Stainless steel	Consult

Note: Refer to page 233 for load cell information

Paramounts® EP

Environmentally Protected, Mild Steel, Light to Medium Capacity Tank Weighing Systems

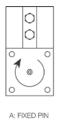


Available in configurations with three or four mounting assemblies. Picture is a representation of actual product

The Paramounts EP system offers all the design advantages of the Paramounts system in applications where extensive sealing of the SB4 load cell is not necessary. Paramounts EP provides a low-cost alternative to the superior mechanical loading system found in the standard Paramounts. Economy and performance are in one complete weighing system.



Free-sliding module with Flintec SB5 bending beam load cell.





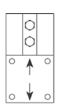














Side-stop Mount

Standard Features

- · Capacities (per module): 1 kN/102,1 kg-100 kN/10.205,9 kg
- NTEP Certified 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
- Load cell outputs are matched to \pm 0.07% allowing replacement without further calibration

Applications

- · Light- to medium-capacity tanks and hoppers
- · High-vibration mixers and blenders
- · Process measurement and control

Complete Kit Includes

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- One fixed-pin module, one side-stop module, and one or two free-sliding assemblies. Each

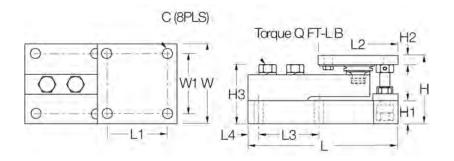
 Constant of the constant of module is complete with a Flintec® SB5 NTEP Certified 1:5000 d, Class III, stainless steel environmentally protected load cell.
- 7,6 m of our hostile environment EL147HE SURVIVOR® load cell cable

Load Cell Certifications





Paramounts® EP Environmentally Protected, Mild Steel, Light to Medium Capacity Tank Weighing Systems



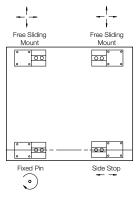
Dimensions

Rated Capacity	С	Н	H1	*H2	**H2	Н3	L	L1	L2	L3	L4	W	W1	Q (FT- LB)
kg/mm														
510,8 - 2.041,0 kg	11,1	90,9	31,8	12,7	19,1	77,7	190,8	76,2	101,6	76,2	12,7	101,6	76,2	_
5.107,5 kg	14,3	118,4	38,1	15,7	25,4	103,9	233,4	98,3	127,0	98,3	14,2	127,0	98,3	_
10.215,0 kg	17,5	162,8	50,8	19,1	31,8	145,5	291,1	120,7	152,4	120,7	17,5	152,4	120,7	_

Order Information

Load Rating (Per Module)	Part#	Price
3-Module Kits		
510,8 kg	33683	Consult
1.021,5 kg	33682	Consult
2.041,2 kg	33681	Consult
5.107,5 kg	33680	Consult
10.205,8 kg	33679	Consult
4-Module Kits		
510,8 kg	33678	Consult
1.021,5 kg	33677	Consult
2.041,2 kg	33676	Consult
5.107,5 kg	33675	Consult
10.205,8 kg	33674	Consult

^{*} Side-stop and free-sliding units



VESSEL ARRANGEMENT

When arranged as illustrated, the vessel is fixed at one corner but is able to slide freely as indicated. This ensures that 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 units

WEIGH MODULES WITH LOAD CELLS

RL9000TWM Series

Tank, Hopper and Vessel Weighing Assembly



Picture is a representation of actual product

The RL9000TWM Series stainless steel weigh module is ideal for use in tank, hopper, vessel and many other applications. The low-profile design offers an economical solution in a competitive marketplace. This rugged, high-precision mount is designed for easy installation and does not require check rods or other stabilizing hardware. The stainless steel construction and welded seal offer additional protection in washdown areas.

Load Cell Specifications

Full Scale Output:

 $3.0 (\pm 0.1\%) \text{ mV/V}$

Bridge Resistance:

350 ohms

Material/Finish:

Stainless steel

Safe Overload: 150% full scale

Rated Excitation:

5-10 VDC

Operating Temperature:

-18° C to 66° C

Insulation Resistance:

5.000 megohms **Non-linearity:**

1 k-100 k 0,05% FS 150 k-450 k 0,1% FS

Non-repeatability:

1 k-100 k 0,02% FS 150 k-450 k 0,03% FS

Seal Type:

Welded-seal IP67

Cable Length:

7.6 m

Cable Color Code:

Green+	Excitation
Black	Excitation
White+	Signal
Red	Signal

Warranty:

Two-year limited warranty



Assembly with integral RL9000TWM compression disk load cell.

Standard Features

- Capacities: 454 kg-204.116,6 kg
- · Very low profile design
- 3,0 mV/V output
- Self-centering
- · Self-checking assembly
- Offers 100% sideload, 100% uplift and 150% static safe load and 300% ultimate static overload protection
- · Stainless steel construction
- Welded seal
- Weighs accurately with as much as a 3° non-parallel load
- Includes 7,6 m load cell cable

Applications

• Tank, hopper or vessel weighing

Optional Features

 Stainless steel top plates (68.038.9 kg-204.116,6 kg have mild steel painted base plate)

Complete Kit Includes

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four stainless steel mounting assemblies
- 7,6 m of our hostile environment EL147HE SURVIVOR® load cell cable

Load Cell Certifications



Order Information

Load Rating (Per Module)	Part#	Price
Single Module		
453,6 kg	84353	Consul
1.134 kg	84354	Consul
2.268 kg	84355	Consul
4.535,9 kg	84356	Consul
6.803,9 kg	84357	Consul
9.071,8 kg	84358	Consul
11.339,8 kg	84359	Consul
15.875,7 kg	84360	Consul
22.679,6 kg	84361	Consul
27.215,5 kg	84362	Consul
34.019,4 kg	84363	Consul
45.359,2 kg	84364	Consul
68.038,9 kg	84365	Consul
90.718,5 kg	84366	Consul
113.398,1 kg	84368	Consul
136.077,7 kg	84369	Consul
181.436,9 kg	84370	Consul
204.116,6 kg	84371	Consul
3-Module Kit		
453,6 kg	98974	Consul
1.134 kg	98980	Consul
2.268 kg	98981	Consul
4.535,9 kg	98982	Consul
6.803,9 kg	98983	Consul
9.071,8 kg	98984	Consul
11.339,8 kg	98985	Consul
15.875,7 kg	98986	Consul
22.679,6 kg	98987	Consul
27.215,5 kg	98988	Consul
34.019,4kg	98989	Consul
45.359,2 kg	98990	Consul
68.038,9 kg	98991	Consul
90.718,5 kg	98992	Consul
113.398,1 kg	98993	Consul
136.077,7 kg	98994	Consul
181.436,9 kg	98995	Consul
204.116,6 kg	98996	Consul
4-Module Kit	90990	Consu
453,6 kg	98997	Consu
1.134 kg	98998	Consu
2.268 kg	98999	Consu
4.535,9 kg	99000	Consu
6.803,9 kg	99001	Consul
9.071,8 kg	99002	Consu
11.339,8 kg	99003	Consu
15.875,7 kg	99004	Consul
22.679,6 kg	99005	Consul
27.215,5 kg	99006	Consul
34.019,4 kg	99007	Consul
45.359,2 kg	99008	Consul
68.038,9 kg*	99009	Consul
90.718,5 kg	99010	Consul
113.398,1 kg	99011	Consul
136.077,7 kg	99012	Consul
181.436,9 kg	99013	Consul
204.116,6 kg*	99014 eel painted base plates	Consul

^{68.038,9} kg-204.116,6 kg have mild steel painted base plates

Load Rating (Per Module)	Part#	Price
Top Plates (Stainless Steel) with bo	olts	
453,6 kg-6.803,9 kg	91207	Consult
9.071,8 kg-22.679,6 kg	91210	Consult
27.215,5 kg-45.359,2 kg	91211	Consult
68.038,9 kg-90.718,5 kg	91213	Consult
113.398,1 kg-204.116,6 kg	91215	Consult
Top Plates (Mild Steel) with bolts		
453,6 kg-6.803,9 kg	124758	Consult
9.071,8 kg-22.679,6 kg	125141	Consult
27.215,5 kg-45.359,2 kg	124759	Consult
68.038,9 kg-90.718,5 kg	124760	Consult
113.398,1 kg-204.116,6 kg	124761	Consult
Dummy Weigh Modules (non-funct	ioning)	
453,6 kg-4.535,9 kg	158749	Consult
6.803,9 kg	158750	Consult
9.071,8 kg-22.679,6 kg	158752	Consult
27.215,5 kg-45.359,2 kg	158753	Consult
68.038,9 kg-90.718,5 kg	158754	Consult
113.398,1 kg-204.116,6 kg	158755	Consult

^{* 68.038,9} kg-204.116,6 kg have mild steel painted base plates

Shims - Order Information

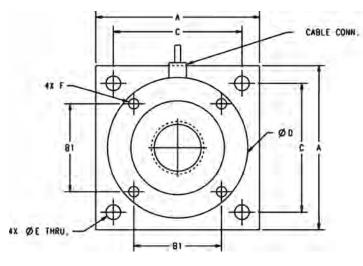
Capacity	Thickness	Material	Part #	Price
Shims				
453,6 kg-6.803,9 kg	1,6	SST	167001	Consult
453,6 kg-6.803,9 kg	3,2	SST	167002	Consult
453,6 kg-6.803,9 kg	6,4	SST	167003	Consult
453,6 kg-6.803,9 kg	1,6	MS	167004	Consult
453,6 kg-6.803,9 kg	3,2	MS	167005	Consult
453,6 kg-6.803,9 kg	6,4	MS	167006	Consult
9.071,8 kg-22.679,6 kg	1,6	SST	167008	Consult
9.071,8 kg-22.679,6 kg	3,2	SST	167009	Consult
9.071,8 kg-22.679,6 kg	6,4	SST	167010	Consult
9.071,8 kg-22.679,6 kg	1,6	MS	167011	Consult
9.071,8 kg-22.679,6 kg	3,2	MS	167012	Consult
9.071,8 kg-22.679,6 kg	6,4	MS	167013	Consult
27.215,5 kg-45.359,2 kg	1,6	SST	167014	Consult
27.215,5 kg-45.359,2 kg	3,2	SST	167015	Consult
27.215,5 kg-45.359,2 kg	6,4	SST	167016	Consult
68.038,9 kg-90.718,5 kg	1,6	SST	167020	Consult
68.038,9 kg-90.718,5 kg	3,2	SST	167021	Consult
68.038,9 kg-90.718,5 kg	6,4	SST	167022	Consult
113.398,1 kg-204.116,6 kg	1,6	SST	167026	Consult
113.398,1 kg-204.116,6 kg	3,2	SST	167027	Consult
113.398,1 kg-204.116,6 kg	6,4	SST	167028	Consult

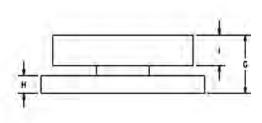
SST = Stainless steel MS = Mild steel

Threads are UN style. Metric is not available.

WEIGH MODULES WITH LOAD CELLS

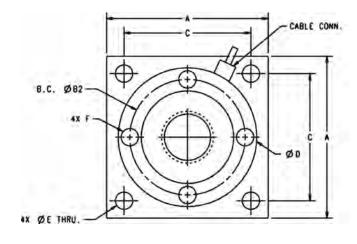
RL9000TWM SeriesTank, Hopper and Vessel Weighing Assembly

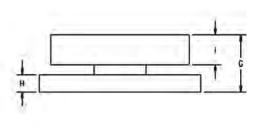




Dimensions (mm)

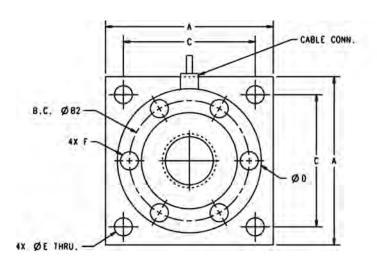
Rated Capacity	A	B1	C	D	E	F	G	Н	I	Conduit Adapter
453,6 - 4.535,9 kg	101,6	50,8	82,6	88,9	10,2	3/8-16 UNC	34,3	9,5	19,1	N/A
6.803,9 kg	101,6	50,8	82,6	88,9	10,2	3/8-16 UNC	40,6	15,9	19,1	N/A
9.071,8 - 22.679,6 kg	177,8	95,3	140	152,4	16	1/2-13 UNC	63	19,1	33	1/2-14 NPT
27.215,5 - 45.359,2 kg	203,2	108	165,1	177,8	20,1	3/4-16 UNF	63,5	25,4	33	1/2-14 NPT

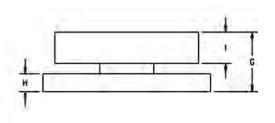




Dimensions (mm)

Rated Capacity	Α	B2	C	D	E	F	G	Н	1	Conduit Adapter
68.038,9 - 90.718,5 kg	254	199	203,2	228,6	27,9	1-14 UNF	120,7	50,8	43,2	1/2-14 NPT

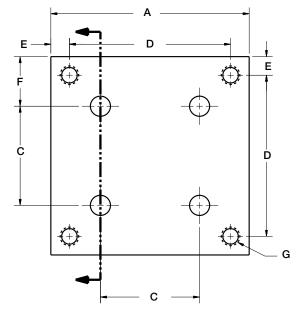


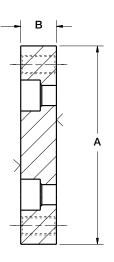


Dimensions

Rated Capacity	A	B2	C	D	E	F	G	Н	I	Conduit Adapter
113,398 - 204.116,6 kg	279,4	196,9	228,6	228,6	33	7/8-14 UNF	163,1	76,2	57,2	4/2-14 NPT

Optional Top Plates





Rated Capacity	A	В	C	D	Е	F	G
kg/mm							
453,6 - 6.803,9 kg	101,6	18,3	50,8	82,6	9,7	25,4	3/8-16 UNC
9.071,8 - 22.679,6 kg	177,8	24,6	95,3	140	19,1	41,1	5/8-11 UNC
27.215,5 - 45.359,2 kg	203,2	37,1	108	165,1	19,1	47,8	3/4-16 UNF
68.038,9 - 90.718,5 kg	254	49,3	140,5	203,2	25,4	57,2	1-14 UNS
113.398.1 - 204.116.6 kg	279.4	74.7	196.9 B.C.	228.6	25.4	25.4	1-1/4-12UNF

WEIGH MODULES WITH LOAD CELLS

RL9000TWM-HT

Tank, Hopper and Vessel Weigh Module



Picture is a representation of actual product

The RL9000TWM-HT is the latest addition to the popular RL9000TWM Series weigh module. The RL9000TWM-HT is a high temperature version that is designed to operate in temperatures up to 204°C.

The integral 7,6m of FEP cable complements the RL9000TWM-HT weigh module.

Load Cell Specifications

Full Scale Output:

3,0 (±- 0,1%) mV/V

Bridge Resistance:

700 ohms

Material/Finish:

Stainless steel

Safe Overload:

150% full scale

Rated Excitation:

5-10 VDC

Operating Temperature:

-18° C to 204° C

Insulation Resistance:

5.000 megohms

Non-linearity:

0,05% FS

Non-repeatability:

0,02% FS

Seal Type:

Welded-seal IP67

Cable Length:

7,6 m FEP jacket

Cable Color Code:

dieen+	Excitation
Black	Excitation
White+	Signal
Red -	Signal

Warranty:

Two-year limited warranty

Standard Features

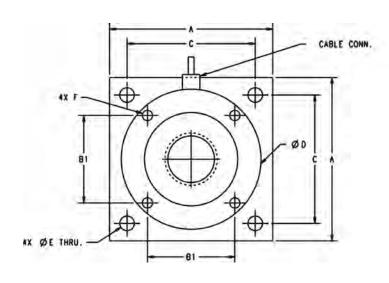
- Capacities: 453,6 kg-22.679,6 kg
- · Very low profile design
- 3,0 mV/V output
- Self-centering
- · Self-checking assembly
- Offers 100% side load, 100% uplift and 150% safe load and 300% ultimate overload protection
- · Stainless steel construction
- Welded-seal
- Weighs accurately with as much as a 3° on-parallel load
- Complete with 7,6 m FEP cable

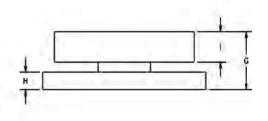
Optional Features

- · Stainless steel top plates
- · Higher capacities available upon request

Applications

- Tank, hopper, or vessel weighing
- High temperature applications





Dimensions

Rated Capacity	A	B1	C	D	E	F	G	Н	1	Conduit Adapter
kg/mm										
453,6 - 4.535,9 kg	101,6	50,8	83,6	88,9	10,2	3/8-16 UNC	34,3	9,5	19,1	_
6.803,9 kg	101,6	50,8	83,6	88,9	10,2	3/8-16 UNC	40,6	15,9	19,1	_
9071,8 - 22.679,6	177,8	95,3	139,7	152,4	16	1/2-13 UNC	63	19,1	33	1/2-14 NPT

Order Information

Load Rating (per module)	Part#	Price
Single Module		
453,6 kg	117050	Consult
1.134 kg	117051	Consult
2.268 kg	117052	Consult
4.535,9 kg	117140	Consult
6.803,9 kg	117053	Consult
9071,8 kg	117054	Consult
11.339,8 kg	117055	Consult
15.875,7 kg	117056	Consult
22.679,6 kg	117057	Consult
Top Plates (Stainless Steel) with bolts		
453,6 - 6.803,9 kg	91207	Consult
9.071,8 - 22.679,6 kg	91210	Consult
Top Plates (Mild Steel) with bolts		
453,6 - 6.803,9 kg	124758	Consult
9.071,8 - 22.679,6 kg	125141	Consult

Threads are UN style. Metric is not available.

WEIGH MODULES WITH LOAD CELLS

EZ Mount 1

Mild Steel Weigh Modules



Available in configurations with three or four mounting assemblies. Picture is a representation of actual product

The EZ Mount 1 Series weigh modules utilize the double-ended beam design with an articulating top plate to provide superior accuracy in any loading condition. The double-ended beam design means there is less cumbersome hardware and each module has a lower profile than modules of different configurations. NTEP Certified and FM approved RL70000 Series load cells give you accuracy and dependability in many applications, including intrinsically safe and explosion proof areas.



Module with RL70000 double-ended shear beam load cell.

Standard Features

- Capacities (per module): 2.268 kg-113.398,1 kg
- Unique sliding pin design compensates for thermal expansion/contraction
- · Self-checking
- · Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Center-loaded, double-ended shear beam design
- · Low-profile design
- · Painted mild steel construction

Optional Features

 Kits available with VPG® Revere 5103 load cell, capacities in 2.268,0 kg-68.039,0 kg)

Applications

Medium- to heavy-capacity tank and hopper weighing applications

Complete Kit Includes

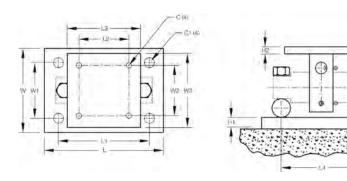
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four EZ Mount 1 mild steel compression mounts
- Three or four RL70000 double-ended shear beam load cells
- 7,6 m of our hostile environment EL147HE SURVIVOR® load cell cable

Load Cell Certifications





load cells on



Dimensions

Rated Capacity	C	C1	Н	H1	H2	L	L1	L2	L3	L4	T	W	W1	W2	W3
kg/mm															
2.268,0 - 9.071,9 kg	14,2	26,9	134,9	19,1	12,7	279,4	203,2	76,2	152,4	174,5	5/8-18 UNF	190,5	101,6	76,2	152,4
13.607,8 - 27.215,5 kg	17,3	30,2	214,1	25,4	19,1	381,0	292,1	130,0	203,2	215,9	1-14 UNS	254,0	152,4	130,1	203,2
45.359,2 kg	20,6	35,1	263,4	31,8	31,8	457,2	355,6	190,5	254,0	241,3	1-14 UNS	304,8	228,6	190,5	254,0
68.039,0 kg	20,6	35,1	263,4	31,8	31,8	457,2	355,6	190,5	254,0	241,3	1-14 UNS	304,8	228,6	190,5	254,0
90.718,5 - 113.398,1 kg	26,9	47,8	425,5	50,8	50,8	660,4	508,0	228,6	304,8	330,2	1 1/2-12 UNS	304,8	152,4	228,6	304,8

Order Information

Load Rating (Per Module)	Part#	Price
Single Module (Does NOT Include L	oad Cell)	
2.268,0 - 9.071,9 kg	17823	Consult
13.607,8 - 27.215,5 kg	17824	Consult
45.359,2 kg	17850	Consult
68.039,0 kg	29012	Consult
90.719,0 - 113.398,4 kg	26068	Consult
3-Module Kit		
2.268,0 kg	18163	Consult
4.535,9 kg	18164	Consult
9.071,9 kg	18165	Consult
13.607,8 kg	32164	Consult
18.143,7 kg	32167	Consult
22.679,6 kg	18166	Consult
27.215,5 kg	18167	Consult
45.359,2 kg	18168	Consult
68.040,0 kg	43290	Consult
4-Module Kit		
2.268,0 kg	18169	Consult
4.535,9 kg	18170	Consult
9.071,9 kg	18171	Consult
13.607,8 kg	32165	Consult
18.143,7 kg	32166	Consult
22.679,6 kg	18172	Consult
27.215,5 kg	18173	Consult
45.359,2 kg	18174	Consult
68.040,0 kg	43291	Consult

^{*}Load cell bolts protrude from bottom of base plate 6,35 mm

VPG Revere® 5103 Mild Steel **Order Information**

Load Rating (Per Module)	Part#	Price
3-Module Kit		
2.268,0 kg	18175	Consult
4.535,9 kg	18176	Consult
9.071,9 kg	18177	Consult
13.607,8 kg	32169	Consult
18.143,7 kg	32171	Consult
22.679,6 kg	18178	Consult
27.215,5 kg	18179	Consult
45.359,2 kg	18180	Consult
68.039,0 kg	18181	Consult
4-Module Kit		
2.268,0 kg	18182	Consult
4.535,9 kg	18183	Consult
9.071,9 kg	18184	Consult
13.607,8 kg	32170	Consult
18.143,7 kg	32172	Consult
22.679,6 kg	18185	Consult
27.215,5 kg	18186	Consult
45.359,2 kg	18187	Consult
68.039.0 kg	18188	Consult
Dummy Load Cells		
2.268 - 9.071,8 kg	33749	Consult
13.607,8 - 27.215,5 kg	74016	Consult
45.359,2 kg	94175	Consult
68.038,9 kg	158715	Consult
Grounding Kit		
2.268,0 - 22.679,6 kg, includes ground strap and mounting hardware per mount	126419	Consult

WEIGH MODULES WITH LOAD CELLS

EZ Mount 1

Stainless Steel Weigh Modules



Available in configurations with three or four mounting assemblies. Picture is a representation of actual product

The EZ Mount 1 Series weigh module utilizes the double-ended beam design with an articulating top plate to provide superior accuracy in any loading condition. The double-ended beam design means there is less cumbersome hardware and each module has a lower profile than modules of different configurations. FM approved RL70000 SS Series load cells give you accuracy and dependability in many applications, including intrinsically safe and explosion proof areas.



Module with RL70000 SS double-ended shear beam load cell.

Standard Features

- Capacities (per module): 2.268 kg-60.039,0 kg)
- Unique sliding pin design compensates for thermal expansion/contraction
- · Self-checking
- · Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Center-loaded, double-ended shear beam design
- · Low-profile design
- 304 stainless steel construction

Optional Features

• Kits available with VPG-Revere 9103 load cell, capacities in 2.268,0 - 68.039,0 kg

Applications

Medium to heavy-capacity tank and hopper weighing applications

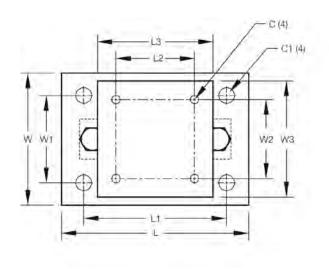
Complete Kit Includes

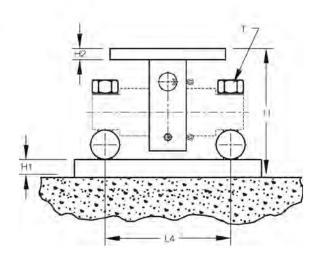
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four EZ Mount 1 stainless steel compression mounts
- Three or four RL70000 SS stainless steel double-ended shear beam load cells
- 7,6 m of our hostile environment EL147HE SURVIVOR® load cell cable

Load Cell Certifications









Dimensions

Rated Capacity	C	C1	Н	H1	H2	L	L1	L2	L3	L4	T	W	W1	W2	W3
kg/mm															
2.268,0 - 9.071,9 kg	14.2	26.9	134.9	19.1	12.7	279.4	203.2	76.2	152.4	174.5	5/8-18 UNF	190.5	101.6	76.2	152.4
13.607,8 - 27.215,5 kg	17.3	30.2	214.1	25.4	19.1	381.0	292.1	130.0	203.2	215.9	1-14 UNS	254.0	152.4	130.1	203.2
45.359,2 kg	20.6	35.1	263.4	31.8	31.8	457.2	355.6	190.5	254.0	241.3	1-14 UNS	304.8	228.6	190.5	254.0
68.039,0 kg	20.6	35.1	263.4	31.8	31.8	457.2	355.6	190.5	254.0	241.3	1-14 UNS	304.8	228.6	190.5	254.0

Order Information

Load Rating (Per Module)	Part#	Price								
Single Module (Does NOT Include Load Cell)										
2.268,0 - 9.071,9 kg	17943	Consult								
13.607,8 - 27.215,5 kg	17944	Consult								
45.359,2 kg	17945	Consult								
68.039,0 kg	29011	Consult								
3-Module Kit										
2.268,0 kg*	36195	Consult								
4.535,9 kg	36196	Consult								
9.071,9 kg	36197	Consult								
13.607,8 kg	36198	Consult								
18.143,7 kg	36199	Consult								
22.679,6 kg	36200	Consult								
27.215,5 kg	36201	Consult								
45.359,2 kg	36202	Consult								
68.039,0 kg*	43288	Consult								

^{*}Load cell bolts protrude from bottom of base plate 6,35 mm

Order Information

Load Rating (Per Module)	Part#	Price
4-Module Kit		
2.268,0 kg	36203	Consult
4.535,9 kg	36204	Consult
9.071,9 kg	36205	Consult
13.607,8 kg	36206	Consult
18.143,7 kg	36207	Consult
22.679,6 kg	36208	Consult
27.215,5 kg	36209	Consult
45.359,2 kg	36210	Consult
68.039,0 kg	43289	Consult
Dummy Load Cells (Mild Steel)		
2.268 - 9.071,8 kg	33749	Consult
13.607,8 - 27.215,5 kg	74016	Consult
45.359,2 kg	94175	Consult
68.038,9 kg	158715	Consult
Grounding Kit		
2.268 - 27.215,5 kg	126419	Consult

Includes ground strap and mounting hardware

RL1600 Series

Cast Iron Weigh Modules

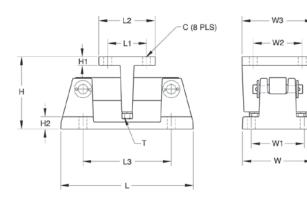


Available in configurations with three or four mounting assemblies. Picture is a representation of actual product

The RL1600 Series mounting module kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 Series kit is ideally suited for indoor and outdoor process control operations in the medium- to high-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.



Cast iron module with RL75016 double-ended beam load cell.



Standard Features

- Capacities (per module): 453,6 kg-11.339,8 kg
- · 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
- · Environmentally protected load cells
- Double-ended beam design, center loaded

Optional Features

 Kits available with VPG® Sensortronics 65016 load cells, capacities (per module): 453,6 -11.339,8 kg

Applications

- Medium- to heavy-capacity tanks, bins and hoppers
- Bulk material management

Complete Kit Includes

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1600 cast iron compression mounts
- Three or four RL75016 double-ended shear beam load cells
- 7,6 m of our hostile environment EL147HE SURVIVOR® load cell cable

Load Cell Certifications



Rated Capacity	C	Н	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
kg/mm													
453,6 - 2.268,0 kg	14,2	127,0	12,7	12,7	236,5	69,9	101,6	158,8	1/2-13 UNC	127,0	95,3	69,9	101,6
4.535,9 - 11.339,8 kg	19,8	200,4	19,1	19,1	304,8	152,4	203,2	190,5	3/4-10 UNC	203,2	152,4	152,4	203,2

RL1600 Series Cast Iron Weigh Modules

Order Information

Single Module (Does NOT Include Load Cell) 453,6 - 2.268,0 kg 17964 4.535,9 - 11.339,8 kg 17965 3-Module Kit 25663 453,6 kg 25664 907,2 kg 25665 1.134,0 kg 25666 1.360,8 kg 25667 2.268,0 kg 25668	Consult Consult Consult Consult Consult Consult Consult Consult Consult
4.535,9 - 11.339,8 kg 17965 3-Module Kit 25663 453,6 kg 25664 907,2 kg 25665 1.134,0 kg 25666 1.360,8 kg 25667 2.268,0 kg 25668	Consult Consult Consult Consult Consult Consult Consult
3-Module Kit 453,6 kg 25663 680,4 kg 25664 907,2 kg 25665 1.134,0 kg 25666 1.360,8 kg 25667 2.268,0 kg 25668	Consult Consult Consult Consult Consult
453,6 kg 25663 680,4 kg 25664 907,2 kg 25665 1.134,0 kg 25666 1.360,8 kg 25667 2.268,0 kg 25668	Consult Consult Consult Consult
680,4 kg 25664 907,2 kg 25665 1.134,0 kg 25666 1.360,8 kg 25667 2.268,0 kg 25668	Consult Consult Consult Consult
907,2 kg 25665 1.134,0 kg 25666 1.360,8 kg 25667 2.268,0 kg 25668	Consult Consult Consult
1.134,0 kg 25666 1.360,8 kg 25667 2.268,0 kg 25668	Consult Consult
1.360,8 kg 25667 2.268,0 kg 25668	Consult
2.268,0 kg 25668	
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4.535,9 kg 25669	Consult
6.803,9 kg 25671	Consult
9.071,9 kg 25672	Consult
11.339,8 kg 25674	Consult
4-Module Kit	
453,6 kg 25675	Consult
680,4 kg 25676	Consult
907,2 kg 25677	Consult
1.134,0 kg 25678	Consult
1.360,8 kg 25679	Consult
2.268,0 kg 25680	Consult
4.535,9 kg 25681	Consult
6.803,9 kg 25682	Consult
9.071,9 kg 25683	Consult
11.339,8 kg 25684	Consult

Load Cell Upgrade

RL75016SS Stainless Steel Load Cells
Three mount kits, 453,6 kg to 11.339,8 kg \$ added to list price
Four mount kits, 453,6 kg to 11.339,8 kg \$ added to list price
RL75016WHE Stainless Steel Hermetic Load Cells
Three mount kits 453,6 kg to 2.268 kg, 10 k-11.339,8 kg \$ added to list price
Four mount kits 453,6 kg to 2.268 kg, 10 k-11.339,8 kg \$ added to list price
Contact factory for a 22.679,6 kg to 34.019,4 kg upgrade

VPG Sensortronics 65016 Order Information

Load Rating (Per Module)	Part#	Price
3-Module Kit		
453,6 kg	25685	Consult
680,4 kg	25686	Consult
1.134,0 kg	25688	Consult
2.268,0 kg	25690	Consult
4.535,9 kg	25691	Consult
6.803,9 kg	25692	Consult
9.071,9 kg	25693	Consult
11.339,8 kg	25694	Consult
4-Module Kit		
453,6 kg	25695	Consult
680,4 kg	25696	Consult
1.134,0 kg	25698	Consult
2.268,0 kg	25700	Consult
4.535,9 kg	25701	Consult
6.803,9 kg	25702	Consult
9.071,9 kg	25703	Consult
11.339,8 kg	25704	Consult
Dummy Load Cells		
453,6 - 2.268,0 kg	18236	Consult
4.535,9 - 11.339,8 kg	18237	Consult

Shims, Mild Steel

	Part #	Price
453,6 - 2.268 kg		
1,6	150844	Consult
3,2	150845	Consult
6,4	150846	Consult
4.535,9 - 11.339,8 kg		
1,6	150847	Consult
3,2	150848	Consult
6,4	150849	Consult

RL1600 Series

Mild Steel Weigh Modules

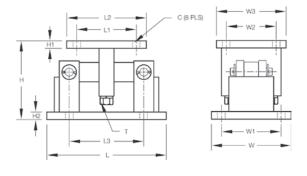


Available in configurations with three or four mounting assemblies. Picture is a representation of actual product

The RL1600 Series mounting module kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 Series kit is ideally suited for indoor and outdoor process control operations in the medium- to high-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.



Mild steel module with RL75016 double-ended beam load cell.



Standard Features

- Capacities (per module): 453,6 34.019,5 kg
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Environmentally protected load cells
- Double-ended shear beam design, center loaded
- · Painted mild steel construction

Optional Features

 Kits available with VPG® Sensortronics 65016 load cells, capacities (per module): 453,6 -34.019,5 kg

Applications

- Medium- to heavy-capacity tanks, bins and hoppers
- · Bulk material management

Complete Kit Includes

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1600 mild steel compression mounts
- Three or four RL75016 double-ended shear beam load cells
- 7,6 m of our hostile environment EL147HE SURVIVOR® load cell cable

Load Cell Certifications





load cells on

Rated Capacity	C	Н	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
kg/mm													
453,6 - 2.268,0 kg	14,2	127,0	12,7	12,7	235,0	69,9	101,6	158,8	1/2-13 UNC	127,0	95,3	69,9	101,6
4.535,9 - 11.339,8 kg	19,8	199,9	19,1	19,1	304,8	152,4	203,2	190,5	3/4-10 UNC	203,2	152,4	152,4	203,2
22.679,7 - 34.019,5 kg	19,8	234,9	25,4	25,4	412,8	165,1	228,6	292,1	1 1/4-7 UNC	304,8	241,3	165,1	228,6

RL1600 SeriesMild Steel Weigh Modules

Order Information

oad Rating (Per Module)	Part#	Price
Single Module (Does NOT Include	Load Cell)	
453,6 - 2.268,0 kg	17812	Consult
4.535,9 - 11.339,8 kg	17814	Consult
22.679,6 kg	17816	Consult
34.019,5 kg	25346	Consult
3-Module Kit		
453,6 kg	18117	Consult
680,4 kg	18118	Consult
907,2 kg	18119	Consult
1.134,0 kg	18120	Consult
1.360,8 kg	18121	Consult
2.268,0 kg	18122	Consult
4.535,9 kg	18123	Consult
6.803,9 kg	18124	Consult
9.071,9 kg	18125	Consult
11.339,8 kg	18126	Consult
22.679,6 kg	18127	Consult
34.019,5 kg	25348	Consult
4-Module Kit		
453,6 kg	18129	Consult
680,4 kg	18130	Consult
907,2 kg	18131	Consult
1.134,0 kg	18132	Consult
1.360,8 kg	18133	Consult
2.268,0 kg	18134	Consult
4.535,9 kg	18135	Consult
6.803,9 kg	18136	Consult
9.071,9 kg	18137	Consult
11.339,8 kg	18138	Consult
22.679,6 kg	18139	Consult
34.019,5 kg	25349	Consult

VPG Sensortronics 65016 Order Information

Load Rating (Per Module)	Part#	Price
3-Module Kit		
453,6 kg	18189	Consult
680,4 kg	18190	Consult
1.134,0 kg	18192	Consult
2.268,0 kg	18194	Consult
4.535,9 kg	18195	Consult
6.803,9 kg	18196	Consult
9.071,9 kg	18197	Consult
11.339,8 kg	18198	Consult
22.679,6 kg	18199	Consult
34.019,5 kg	25350	Consult
4-Module Kit		
453,6 kg	18201	Consult
680,4 kg	18202	Consult
1.134,0 kg	18204	Consult
2.268,0 kg	18206	Consult
4.535,9 kg	18207	Consult
6.803,9 kg	18208	Consult
9.071,9 kg	18209	Consult
11.339,8 kg	18210	Consult
22.679,6 kg	18211	Consult
34.019,5 kg	25351	Consult
Dummy Load Cells		
453,6 - 2.268,0 kg	18236	Consult
4.535,9 - 11.339,8 kg	18237	Consult
22.679,6 kg	18238	Consult

Shims, Mild Steel

	Part #	Price
453,6 - 2.268 kg		
1,6	150844	Consult
3,2	150845	Consult
6,4	150846	Consult
4.535,9 - 11.339,8 kg		
1,6	150847	Consult
3,2	150848	Consult
6,4	150849	Consult
22.679,6 - 34.019,4 kg		
1,6	150850	Consult
3,2	150851	Consult
6,4	150866	Consult

Load Cell Upgrade

RL75016SS Stainless Steel Load Cells
Three mount kits, 453,6 kg to 11.339,8 kg \$ added to list price
Four mount kits, 453,6 kg to 11.339,8 kg \$ added to list price
RL75016WHE Stainless Steel Hermetic Load Cells
Three mount kits 453,6 kg to 2.268 kg, 10 k-11.339,8 kg \$ added to list pric
Four mount kits 453,6 kg to 2.268 kg, 10 k-11.339,8 kg \$ added to list price
Contact factory for a 22.679.6 kg to 34.019.4 kg upgrade

RL1600 Series Stainless Steel Weigh Modules

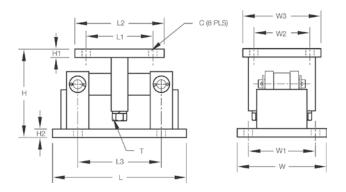


Available in configurations with three or four mounting assemblies. Picture is a representation of actual product

The RL1600 Series mounting module kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 Series kit is ideally suited for indoor and outdoor process control operations in the medium-to high-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.



Fabricated stainless steel module with RL75016 SS double-ended beam load cell.



Standard Features

- Capacities (per module): 453,6 kg-34.019,5 kg
- 304 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
- · Environmentally protected load cells
- Double-ended shear beam design, center loaded

Optional Features

• Kits available with VPG Sensortronics 65016W SS load cells

Applications

- Medium-to heavy-capacity tanks, bins, and hoppers
- · Bulk material management

Complete Kit Includes

- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- Three or four RL1600 stainless steel compression mounts
- Three or four RL75016 SS stainless steel double-ended shear beam load cells
- 7,6 m of our hostile environment EL147HE SURVIVOR® load cell cable

Load Cell Certifications





Rated Capacity	C	Н	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
kg/mm													
453,6 - 2.268,0 kg	14,2	127,0	12,7	12,7	235,0	69,9	101,6	158,8	1/2-13 UNC	127,0	95,3	69,9	101,6
4.535,9 - 11.339,8 kg	19,8	199,9	19,1	19,1	304,8	152,4	203,2	190,5	3/4-10 UNC	203,2	152,4	152,4	203,2
22.679,7 - 34.019,5 kg	19,8	234,9	25,4	25,4	412,8	165,1	228,6	292,1	1 1/4-7 UNC	304,8	241,3	165,1	228,6

Order Information

Load Rating (Per Module)	Part#	Price
Single Module (Does NOT Include Load	Cell)	
453,6 - 2.268,0 kg	17813	Consult
4.535,9 - 11.339,8 kg	17815	Consult
22.679,6 kg	17842	Consult
34.019,5 kg	25347	Consult
3-Module Kit		
453,6 kg	18141	Consult
680,4 kg	18142	Consult
907,2 kg	18143	Consult
1.134,0 kg	18144	Consult
2.268,0 kg	18145	Consult
4.535,9 kg	18146	Consult
6.803,9 kg	18147	Consult
9.071,9 kg	18148	Consult
11.339,8 kg	18149	Consult
22.679,6 kg	18150	Consult
34.019,5 kg	25352	Consult
4-Module Kit		
453,6 kg	18152	Consult
680,4 kg	18153	Consult
907,2 kg	18154	Consult
1.134,0 kg	18155	Consult
2.268,0 kg	18156	Consult
4.535,9 kg	18157	Consult
6.803,9 kg	18158	Consult
9.071,9kg	18159	Consult
11.339,8 kg	18160	Consult
22.679,6 kg	18161	Consult
34.019,5 kg	25353	Consult

VPG Sensortronics 65016W Order Information

Load Rating (Per Module)	Part#	Price
3-Module Kit		
453,6 kg	18213	Consult
680,4 kg	18214	Consult
1.134,0 kg	18216	Consult
2.268,0 kg	18217	Consult
4.535,9 kg	18218	Consult
6.803,9 kg	18219	Consult
9.071,9 kg	18220	Consult
11.339,8 kg	18221	Consult
22.679,6 kg	18222	Consult
34.019,5 kg	25354	Consult
4-Module Kit		
453,6 kg	18224	Consult
680,4 kg	18225	Consult
1.134,0 kg	18227	Consult
2.268,0 kg	18228	Consult
4.535,9 kg	18229	Consult
6.803,9 kg	18230	Consult
9.071,9 kg	18231	Consult
11.339,8 kg	18232	Consult
22.679,6 kg	18233	Consult
34.019,5 kg	25355	Consult
Dummy Load Cells (Mild Steel)		
453,6 - 2.268,0 kg	18236	Consult
4.535,9 - 11.339,8 kg	18237	Consult
22.679,6 kg	18238	Consult

Shims, Stainless

	Part #	Price
453,6 - 2.268 kg		
1,6	150852	Consult
3,2	150853	Consult
6,4	150854	Consult
4.535,9 - 11.339,8 kg		
1,6	150855	Consult
3,2	150856	Consult
6,4	150857	Consult
22.679,6 - 34.019,4 kg		
1,6	150858	Consult
3,2	150859	Consult
6,4	150861	Consult

Motor Truck Scale Electronic Conversion Kit

Rice Lake Weighing Systems



Picture is a representation of actual product

Full electronic performance can be achieved at a fraction of the cost of a new scale and pit. The Motor Truck Scale (MTS) electronic conversion kit is designed to transform an existing scale pit and weighbridge into a fully electronic vehicle scale. Designed for quick installation without removing the platform or reconfiguring the pit, the conversion kit can often be installed in a matter of days, minimizing downtime. This ease of installation is important when considering installations where it is not feasible to completely remove the existing scale.

Standard Features

- Cost- and time-efficient installation; no need to remove weighbridge
- Converts existing scale capacities of 18.143,7 kg-90.718,7 kg)
- 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
- Capacity per mount: 11.339,8 45.359,4 kg)
- Utilizes cells with 3 mV/V output

Optional Features

- · Custom heights available; consult
- RLWS RL75223 welded-seal, VPG® Sensortronics 65040A or RTI 5223 load cells

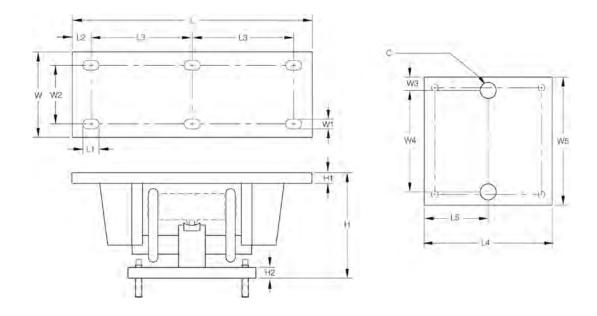
Applications

- 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

Complete Kit Includes

- 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
- Four, six or eight Translink mounting assemblies with RL75040 or RL75223 load cells
- 30,5 m of hostile environment EL147HE SURVIVOR® load cell cable

Motor Truck Scale Electronic Conversion Kit Rice Lake Weighing Systems



Dimensions

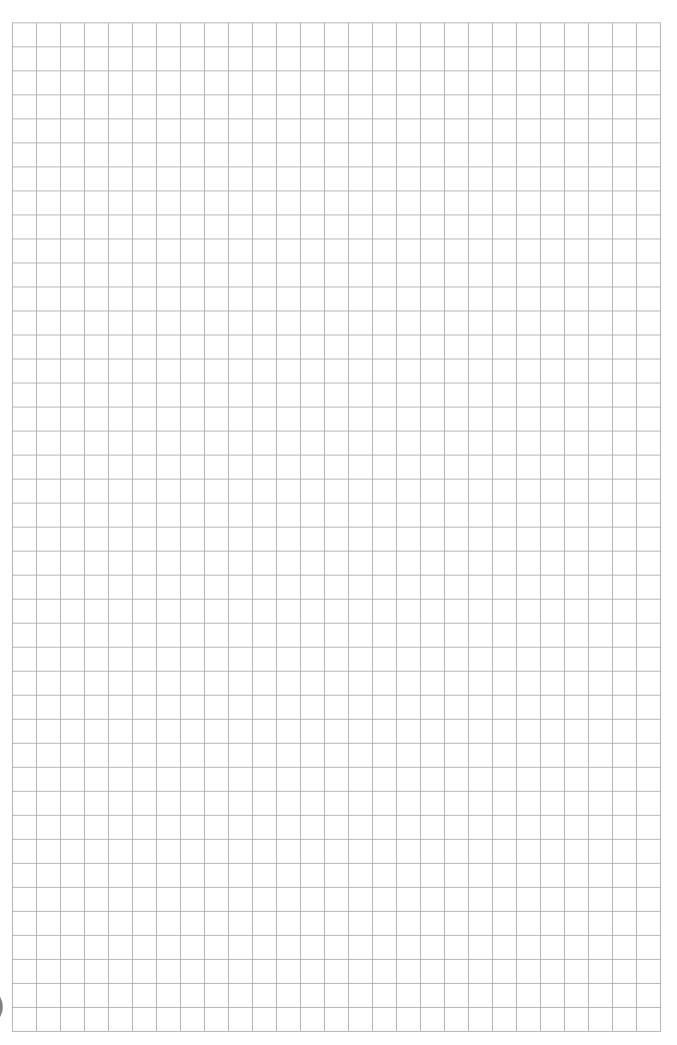
Rated Capacity	C	H*	H1	H2	L	L1	L2	L3	L4	L5	W	W1	W2	W3	W4**	W5
kg/mm																
22.679,6 - 45.400,00 kg (RL75223)	38,1	328,4	25,4	25,4	571,5	37,5	44,5	241,3	298,5	149,4	196,9	23,1	133,4	31,8	235,0	298,45
11.339,8 - 18.143,7 kg (RL75040A)	38,1	251,0	25,4	25,4	469,9	37,5	44,5	190,5	298,5	149,4	196,9	23,1	133,4	31,8	235,0	298,45
22.679,6 - 34.019,4 kg (RL75040A)	38,1	325,6	25,4	25,4	571,5	37,5	44,5	241,3	298,5	149,4	196,9	23,1	133,4	31,8	235,0	298,45

^{*}Custom heights available; consult **Custom hole spacing for existing bolt patterns is available; consult

Order Information

Scale Suggested Capacity	Load Cell Capacity (Per Module)	Part#	Load Cell Used In Kit	Price
4-Module Kit (Include:	s Weigh Modules Lo	oad Cells, Junctio	n Box, and Transient Prote	ection)
18,143.7 kg	11,339.8 kg	30513	RL75040A	Consult
27,215.6 kg	18,143.7 kg	30514	RL75040A	Consult
6-Module Kit (Include:	s Weigh Modules Lo	oad Cells, Junctio	n Box and Transient Prote	ction)
45,359.4 kg	22,679.6 kg	30515	RL75040A	Consult
54,431.2 kg	27,215.6 kg	30516	RL75040A	Consult
8-Module Kit (Include:	s Weigh Modules Lo	oad Cells, Junctio	n Box and Transient Prote	ction)
54,431.2 kg	27,215.6 kg	30517	RL75040A	Consult
90,718.7 kg	34,019.4 kg	30518	RL75040A	Consult
SD 136,078.1 kg	45,359.4 kg	30512	RL75223	Consult

SD refers to super duty, 45.359,4 kg capacity welded-seal load cells



PORTABLE VEHICLE SCALES

Portable Vehicle Weighing

TABLE OF CONTENTS

Looking for products?

Please visit www.ricelake.com/global for current product pricing or call our European office at +31 (0) 26 472 1319 to talk to an industry expert about our product offerings and customized solutions.

Load Ranger Wireless Wheel Pad Scale



Standard Features

- Up to six individual pads (three sets) per system, completely wireless
- Up to 14 individual pads (7 sets) maximum per system, pairs must be joined with Y-cables and communicate wirelessly to the indicator
- Industrial Bluetooth® radio module to communicate with indicator
- Integrated wheels for easy transport and positioning
- Internal rechargeable battery with 40 hours of battery life
- Non-slip rubber on the underside of the platform for good grip on all types of surfaces
- Built-in indicator on each scale with 25,4 mm character display
- IP68 rating
- Cover plate protects built-in indicator

Remote indicator with integrated printer in carrying case

- Carrying case: 325 mm x 460 mm x 170 mm
- · Backlit graphic display with touchscreen technology
- . Internal battery with 10 hours of battery life
- · Real-time clock
- · Permanent data storage
- Slot for built-in micro SD
- 24-bit A/D converter, up to 2,300 conversions per second
- · One RS-232 serial port
- · Thermal printer
- · ABS transport case

Wheel weighing software

- . Multi-scale function mode weighs with up to 14 individual pads (seven 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
- · Customizable keyboard
- 15 customizable and printable text IDs
- 1,000 field database
- · Programmable printout from keyboard
- Print and display list of last 3,500 vehicles

Options/Accessories

- · Leveling modules
- · Pit frames for semi-permanent floor installations
- Aluminum ramps

Specifications

Construction:

Aluminum alloy

Display:

25,4 mm character display on each scale

Platform Dimensions (I x w x h):

Load Ranger RF-MD: 564 mm x 511 mm x 58 mm Load Ranger RF-WD: 750 mm x 561 mm x 58 mm Load Ranger RF-XWD: 950 mm x 611 mm x 59 mm

System Accuracy:

0,05% of rated capacity

Power Supply:

Rechargeable battery Approximately 40 hours of battery life Includes uL approved AC wall adaptor

Loading Surface (I x w): Load Ranger RF-MD: 564 mm x 400 mm Load Ranger RF-WD: 750 mm x 450 mm Load Ranger RF-XWD: 950 mm x 500 mm

Operating Temperature:

-10°C to 40°C

Storage Temperature:

-20°C to 60°C

Warranty:

Approvals

EU

2 year limited warranty

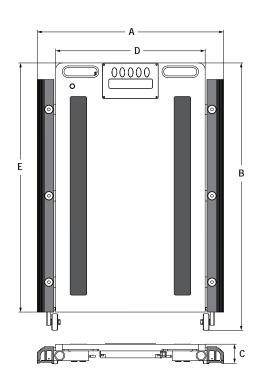


Part Number/Price

Part #	Description		Price				
182099	Remote indicator with integrated printer in carrying case						
Load Ranger F	RF-MD						
181843	564 mm x 511 mm x 58 mm	1.500 kg x .5 kg	Consult				
181844	564 mm x 511 mm x 58 mm	3.000 kg x 1 kg	Consult				
181845	564 mm x 511 mm x 58 mm	6.000 kg x 2 kg	Consult				
181846	564 mm x 511 mm x 58 mm	10.000 kg x 5 kg	Consult				
181847	564 mm x 511 mm x 58 mm	15.000 kg x 5 kg	Consult				
Load Ranger F	RF-WD						
181848	750 mm x 561 mm x 58 mm	6.000 kg x 2 kg	Consult				
181849	750 mm x 561 mm x 58 mm	10.000 kg x 5 kg	Consult				
181850	750 mm x 561 mm x 58 mm	15.000 kg x 5 kg	Consult				
Load Ranger F	RF-XWD						
181851	950 mm x 611 mm x 59 mm	6.000 kg x 2 kg	Consult				
181852	950 mm x 611 mm x 59 mm	10.000 kg x 5 kg	Consult				
181853	950 mm x 611 mm x 59 mm	15.000 kg x 5 kg	Consult				
181854	950 mm x 611 mm x 59 mm	20.000 kg x 10 kg	Consult				

Options/Accessories

Part #	Description	Price
188744	RS-485 cable	Consult
181881	Aluminum Ramp for Load Ranger MD Models	Consult
181882	Aluminum Ramp for Load Ranger WD Models	Consult
181883	Aluminum Ramp for Load Ranger XWD Models	Consult
N/A	Installation, testing, configuration and verification	Consult factory



Dimensions									
	RF-MD	RF-WD	RF-XWD						
Α	508 mm	559 mm	610 mm						
В	610 mm	813mm	991 mm						
С	58 mm	58 mm	58 mm						
D	406 mm	457 mm	508 mm						
E	559 mm	762 mm	940 mm						

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Printers

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RICE LAKE GUARDIAN G-2™320 Steel Printer Enclosure)
LP542S	I

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Rice Lake GUARDIAN™

Stainless Steel Printer Enclosure



Specifications

Enclosure:

304 stainless steel; piano-style hinge

Dimensions:

Part #66762 (W x H x D): 361,2 x 361,2 x 539,7 mm

Weight:

Approximately 17,2kg

Warranty:

One-year limited warranty

Standard Features

- GUARDIAN
- Designed to protect the Datamax-O'Neil® I-4208, I-4308 and I-4212 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

Part Number/Price

Part #	Description	Est. Weight	Price
66762	Guardian stainless steel printer enclosure for Datamax-0'Neil® I-4206, I-4208, I-4308, I-4212 and Mark II	17,2 kg	Consult

Consult factory for additional models and pricing

Rice Lake GUARDIAN G-2™

Steel Printer Enclosure



Guardian G-2

Specifications

Enclosure:

Heavy-gauge 304 stainless steel

Dimensions

Part #78672 (W x H x D): 323,8 x 209,5 x 469,9 mm

Weight:

Approximately 13,6 kg

Warranty:

One-year limited warranty

Standard Features

- GUARDIAN G-2
- 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

Part Number/Price

	•		
Part #	Description	Est. Weight	Price
78672	Guardian, G-2 for Zebra TLP2844	10,9 kg	Consult
99465	Guardian, G-2, LP2844, GKD	10,9 kg	Consult
107638	Guardian, G-2 RL-42DT, DT4	10,9 kg	Consult
107639	Guardian, G-2 RL-42TT, G500	10,9 kg	Consult

Options/Accessories

Part #	Description	Price
46341	Heater option	Consult
46342	Fan option	Consult

Specifications

Printing Resolution:

203 dpi (8 dots/mm)

Print Speed:

Up to 127 mm/sec

Maximum Print Length:

1016 mm

Maximum Print Width:

108 mm

Label Length:

From 10 mm up to $999\,\text{mm}$

Label Width:

From 20 mm up to $112 \, \text{mm}$

Label Thickness:

From 0.06 mm up to 0.19 mm

Label Roll Dimensions:

127 mm OD (5.0 in OD)

Fonts:

8 fixed alphanumeric fonts, 1 true type font with rotation at 0, 90, 180, and 270 degrees

Available Bar Codes:

Code 39, Code 39C, Code 93, Code 128uCC, Code 128 (Subset A, B, C), Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN e UPC 2 (5) digits add-on, MSI, PLESSEY, POSTNET, China Post, ITF 14, EAN 14

Available 2D Bar Codes:

PDF-417, MAXICODE, DATA MATRIX, QR Code

Memory:

2 MB DRAM, 2 MB Flash Memory

Interfaces:

RS 232, Parallel, USB 1.1

Standard Software Programming:

Creation of customized labels with logos, images, weight data, and bar codes

Dimensions:

240 x 200 x 164 mm

Operating Temperature:

5° C to 40° C

Power Supply:

Switching 100/240 VAC, 24V 3.75A DC (external power adapter)



Standard Features

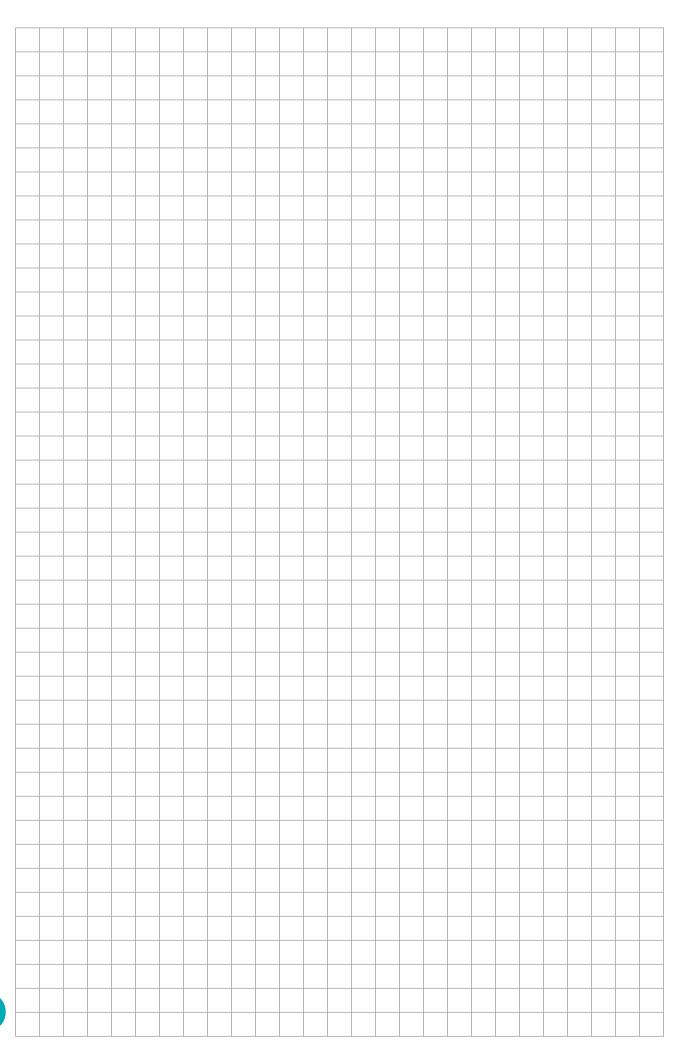
· Fitted front peel mechanism with label present sensor

Part Number/Price

Part #	Description	Est. Weight	Price
185313	Direct thermal labeler		Consult

Options/Accessories

Part #	Description	Price
185314	RS232 cable, 1,5 m for LP542xx, SMTPlus, PR80 printers	Consult
185315	RS232 cable, 10 m for LP542xx, SMTPlus, PR80 printers	Consult
185316	Roll of 1.000 adhesive thermal labels 54 x 66 mm, 40,8 mm hole, 120 mm external diameter	Consult
185317	20 rolls of 1.000 adhesive thermal labels 54 x 66 mm, 40,8 mm hole, 120 mm external diameter	Consult
185318	Roll of 1.000 adhesive thermal labels 58 x 53 mm, 39,5 mm hole, 110 mm external diameter	Consult
185319	24 rolls of 1.000 adhesive thermal labels 58 x 53 mm, 39,5 mm hole, 110 mm external diameter	Consult
185329	Roll of 500 adhesive thermal labels 63,5 x 80 mm, 40,8 mm hole, 100 mm external diameter	Consult
185330	36 rolls of 500 adhesive thermal labels 63,5 x 80 mm, 40,8 mm hole, 100 mm external diameter	Consult
185331	Roll of 1.000 adhesive thermal labels 100 x 40 mm, 40,8 mm hole, 100 mm external diameter	Consult
185332	16 rolls of 1.000 adhesive thermal labels 100 x 40 mm, 40,8 mm hole, 100 mm external diameter	Consult
185333	Roll of 1.000 adhesive thermal labels 100 x 60 mm, 40,8 mm hole, 115 mm external diameter	Consult
185334	12 rolls of 1.000 adhesive thermal labels 100 x 60 mm, 40,8 mm hole, 115 mm external diameter	Consult
185335	Roll of 250 adhesive thermal labels 100 x 120 mm, 40,8 mm hole, 90 mm external diameter	Consult
185336	20 rolls of 250 adhesive thermal labels 100 x 120 mm, 40,8 mm hole, 90 mm external diameter	Consult



Software

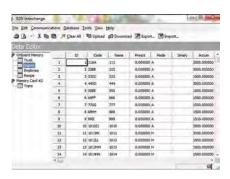
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Interchange 920i®/1280 Database Management Software







Database Editor

Communication Settings for Download

Export or Import Data

Used to set up a custom job file for each indicator database you need to export. Manually or automatically run the job file by setting a predetermined time. Windows® Task Scheduler can run the job file before you get to work and have an uploaded Excel® spreadsheet in your email inbox.

Specifications

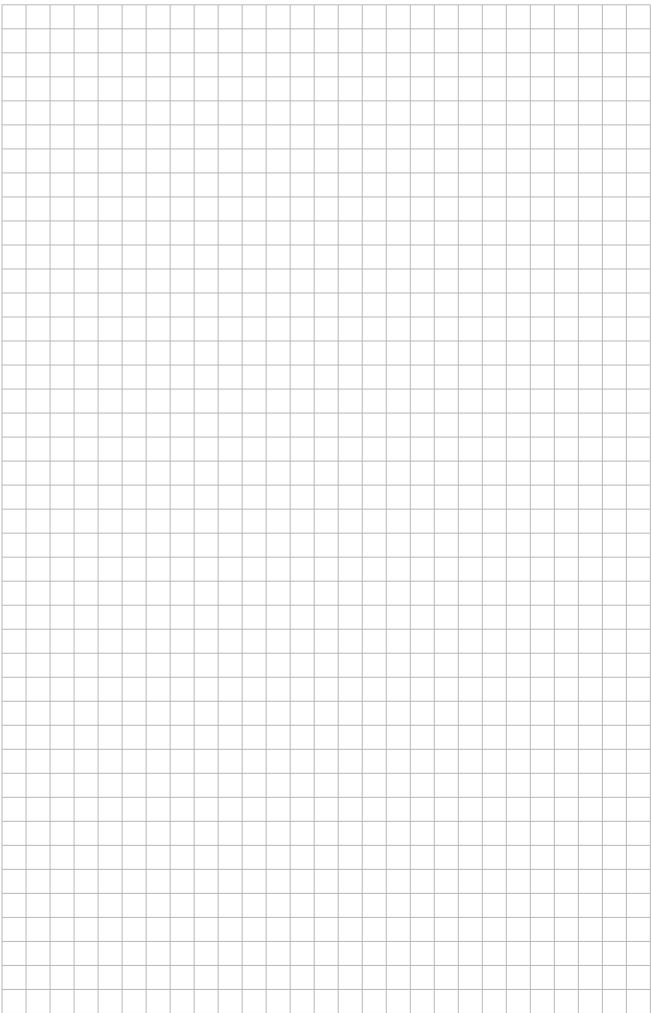
Minimum System Requirements: Windows XP or greater

Standard Features

- · Setup using an export job wizard
- Connect using RS-232, RS-485 or Ethernet TCP/IP
- · Program will connect to the indicator and upload the current database structure
- · Select the desired database
- Export database table file types: delimited text, XML, XLS, HTML

Part Number/Price

Part #	Description	Price
72809	Interchange database software	Consult









Weigh Scale



Customer Account Information

Standard Features APPROVALS

- SQL Server® Express client/server database
- · Comprehensive report filters
- · User and administrator filters
- Backup and restore via included SQL Server Management Studio Express
- · 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 only

Optional Features

- Image capture with Ethernet camera TCP/IP (may require SQL server upgrade through Microsoft)
- · Interface to non-Rice Lake weight indicators
- · Custom reports
- Database configuration
- · Field installation and training
- · Factory phone support

Specifications

System Requirements:

Supports Windows® 7 and up (x86 or x64) systems

Databases:

 $4~\mbox{GB}$ max database size when using included MS SQL Server Express, unlimited with standard version of MS SQL Server.

Backup and restore via included SQL Server Management Studio Express

Communications:

Support for multiple printers Supports all Rice Lake indicator interfaces Supports VIRTUi/VIRTUi2 interface 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. Export reports can be saved as PDF/XLS

Transaction Calculations:

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

Software Support:

Database configuration, field installation and train-ing available. Phone support packages available, contact Rice Lake for further options

Approvals:

NTEP CC 05-107



Part Number/Price

Part #	Description	Price
104787	OnTrak activation code	Consult
101062	OnTrak CD/ROM*	Consult

OnTrak trial at www.ricelake.com/ontrak

Options/Accessories

Part #	Description	Price
Consult	Non-Rice Lake indicator interface	Consult
Consult	Custom reports	Consult
Consult	Database configuration	Consult
104789	Phone support, one hour	Consult
104790	Phone support, 10 hours	Consult
104791	Phone support, 25 hours	Consult
104792	Phone support, 50 hours	Consult
101003	Additional OnTrak manual	Consult

WeighVault®



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
- · Reports can be exported into word processing, spreadsheet of PDF formats

Part Number/Price

Part #	Description	Price
117358	Software package, WeighVault for CW90/90X	Consult
125546	Software package, WeighVault for Counterpart	Consult

Specifications

Minimum System Specifications:

CW-90X or Counterpart®

800+ MHz Intel® compatible processor

1 GB of RAM

750 MB hard drive space

See website for OS details

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 of hard drive space

Microsoft XP SP3 (32-bit), Windows Vista (x86 or x64), Windows 7 (x86 or x64), Windows 8 (64-bit), Windows 10

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 Functions Only

• 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-90/90X Functions Only

· Part Fields:

Product ID [4 characters] Two Descriptions Fields [32 Characters each] Target

Tare

Over

Under

Units

• Reports:

Transaction Productivity



Over 40,000 weighing products and 3,000,000 parts distributed worldwide.

An ISO 9001 registered company

EUROPE OFFICI

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EUROPE OFFICE BUSINESS HOURS

Monday through Friday from 8:00 a.m. to 5:30 p.m. Central European Time



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EXTENDED BUSINESS HOURS

Monday through Friday from 6:30 a.m. to 6:30 p.m. Saturday from 8:00 a.m. to 12:00 p.m. Central Time

EMERGENCY CONTACT INFORMATION

Your service doesn't stop when the office is closed and neither does ours. For immediate assistance, day or night please call +31 (0)26 4721319 to be forwarded to on-call personnel within Europe. In the event that staff within Europe cannot be reached, please dial our U.S. headquarters at +1 715-234-9171 for immediate assistance.

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