JUNCTION BOXES / SIMULATORS

Junction Boxes / Simulators

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Approvals

Part#	Description	Price
88956	JB4SS signal trim junction box with PG7 cord grips for load cells	\$295.00
107700	JB4SS signal trim junction box with PG9 cord grips for load cells	\$310.00
88958	Board only	\$175.00
182990	Board only with standoffs	\$180.00
165271	Enclosure only (includes cord grips and filter)	\$150.00

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Dimensions

JB4SS				
Α	2.30 in	Е	6.55 in	
В	3.80 in	F	0.25 in (4)	
С	5.75 in	G	1.60 in	
D	4.00 in			

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Standard Features

- Stainless steel, NEMA Type 4X enclosure
- Jumpers to enable/disable a load cell
- PreVent[™] breather vent
- · Conformal coated circuit board
- · Connect two, three or four single cells
- · Expansion port

Applications

· Floor, tank, hopper scales

Specifications

Cable Fittings:

P/N 88956: (4) PG7 0.118 to 0.255 in strain relief (2) PG11 0.197 to 0.394 in strain relief P/N 107700:

(4) PG9 0.138 to 0.315 in strain relief

(2) PG11 0.197 to 0.394 in strain relief

Rating/Material:

NEMA Type 4X Stainless steel

Connectors:

Spring clamp screwless, 12 to 28 AWG

Trimming:

Individual cell, signal trim

Temperature:

Operating:

0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers: 100,000 ohm, 25-turn cermet

Circuit Board:

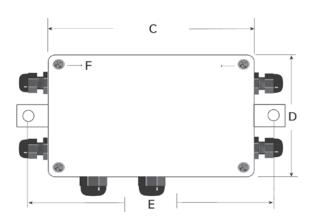
 3.8×2.3 in, with conformal coating

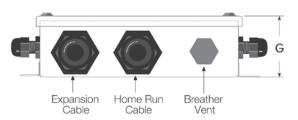
Warranty:

One-year limited

Approvals:

cFMus







Approvals

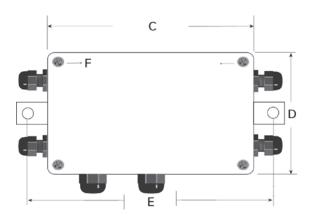
Part#	Description	Price
91779	JB4ES excitation trim junction box	\$295.00
89446	Board only	\$170.00
165271	Enclosure only (includes cord grips and filter)	\$150.00

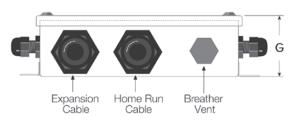
Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Dimensions

JB4ES					
Α	2.30 in	Е	6.55 in		
В	3.80 in	F	0.25 in (4)		
С	5.75 in	G	1.60 in		
D	4.00 in				

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Standard Features

- Jumpers to enable/disable a load cell
- PreVent[™] breather vent
- Conformal-coated circuit board
- Connect two, three or four single load cells
- Expansion port

Applications

• Floor, tank, hopper scales

Specifications

Cable Fittings:

(4) PG7 0.118 to 0.255 in strain relief (2) PG11 0.197 to 0.394 in strain relief

Rating/Material:

NEMA Type 4X Stainless steel

Connectors:

Spring clamp screwless, 12 to 28 AWG

Trimming:Individual cell, excitation trim

Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:

100 ohm, 25-turn cermet

Circuit Board:

 3.8×2.3 in, with conformal coating

Warranty: One-year limited

Approvals: cFMus

Approvals



PN 92762 Not FM approved

Part Number/Price

Part#	Description	Price
91780	JB4SP signal trim four-channel with expansion	\$310.00
92762	JB4SPT signal trim with transient protection (not FM approved)	\$495.00
88958	Board only	\$175.00
89894	Transient board	\$235.00
165272	Enclosure only (does not include cord grips and filter)	\$145.00

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Standard Features

- Jumpers to enable/disable a load cell
- PreVent[™] breather vent
- Conformal coated circuit board
- Connect two, three or four single load cells
- · Expansion port

Applications

• Tank and hopper scales

Specifications

Cable Fittings:

(4) PG7 0.118 to 0.255 in strain relief (2) PG11 0.197 to 0.394 in strain relief

Rating/Material:

NEMA Type 4X

Polycarbonate with overlapping solid cover, stainless steel screws

Connectors:

Spring clamp screwless, 12 to 28 AWG

Trimming:

Individual cell, signal trim

Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:

100,000 ohm, 25-turn cermet

Circuit Board:

 3.8×2.3 in, with conformal coating

Warranty:

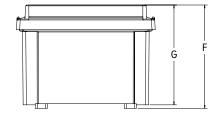
One-year limited

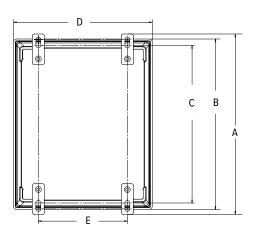
Approvals:

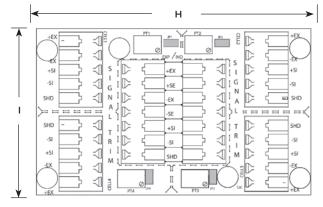
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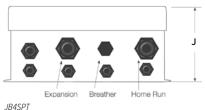
Dimensions

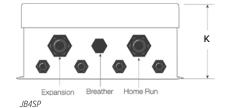
JB4SP and JB4SPT					
Α	10.04 in	Е	4.00 in	I	2.30 in
В	9.52 in	F	5.95 in	J	5.95 in
С	8.50 in	G	5.71 in	K	5.95 in
D	7.43 in	Н	3.80 in		













Dimensions

Description	Price
JB4EP excitation trim junction box	\$310.00
JB4EPT excitation trim junction box with transient protection	\$495.00
Board only	\$170.00
Transient board	\$235.00
Enclosure only (does not include cord grips or filter)	\$145.00
	JB4EP excitation trim junction box JB4EPT excitation trim junction box with transient protection Board only Transient board

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.

Standard Features

- Jumpers to enable/disable a load cell
- PreVent[™] breather vent
- · Conformal -coated circuit board
- Connect two, three or four single load cells
- Expansion port

Applications

• Tank and hopper scales

Specifications

Cable Fittings:

(4) PG7 0.118 to 0.255 in strain relief (2) PG11 0.197 to 0.394 in strain relief

Rating/Material:

NEMA Type 4X

Polycarbonate with overlapping solid cover, stainless steel screws

Connectors:

Spring clamp screwless, 12 to 28 AWG

Trimming:

Individual cell, excitation trim

Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:

100 ohm, 25-turn cermet

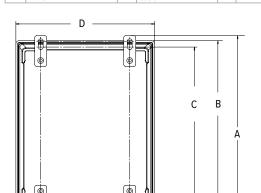
Circuit Board: 3.8×2.3 in, with conformal coating

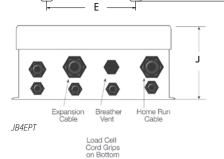
Warranty:

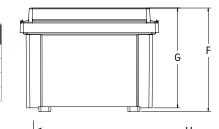
One-year limited

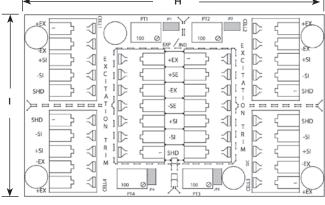
Approvals: cFMus

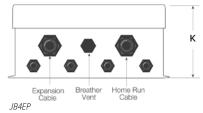
	2					
JB4	4EP and JB4EPT					
Α	10.04 in	Е	4.00 in	I	2.30 in	
В	9.52 in	F	5.95 in	J	5.95 in	
С	8.50 in	G	5.71 in	K	5.95 in	
D	7.43 in	Н	3.80 in			











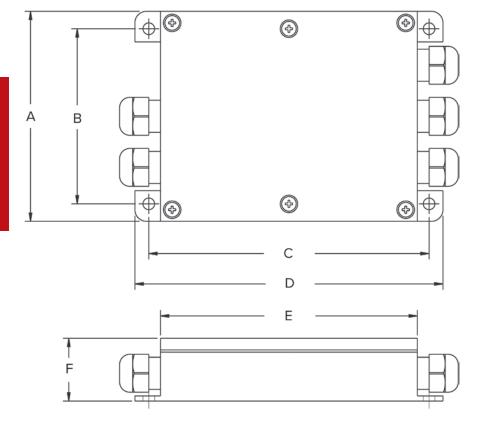


Part#	Description	Price
73428	EL204 junction box	\$245.00
88958	Board only	\$175.00

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Dimensions

EL204				
Α	4.50 in	D	6.59 in	
В	3.75 in	Е	5.50 in	
С	6.00 in	F	1.34 in	



Standard Features

- · ABS enclosure with molded-in cable fittings
- Connect two, three or four single load cells

Applications

• Floor, hopper, tank or livestock applications

Specifications

Cable Fittings:

Five water tight nylon compression fittings, 0.210 × 0.280 in

Enclosure:

ABS with molded through-fittings, sealed six-screw lid

Connectors:

Spring clamp screwless, 12 to 28 AWG

Trimming:

Individual cell, signal trim

Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:

100,000 ohm, 25-turn cermet

Circuit Board:

 3.8×2.3 in, with conformal coating

Warranty:

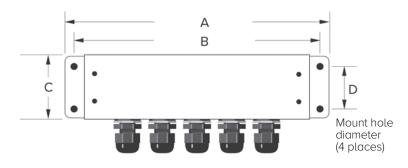


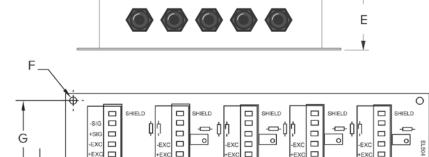
Part#	Description	Price
21165	EL504 signal trim junction box	\$425.00
21296	Board only	\$275.00
165274	Enclosure only (includes cord grips and cover)	\$175.00

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability. Any unused channels require modification.

Dimensions

EL5	EL504						
Α	9.50 in	F	Ø.14 in thru type	K	6.33 in		
В	8.80 in	G	1.37 in	L	6.50 in		
С	2.40 in	Н	0.15 in	М	1.50 in		
D	1.50 in	I	0.15 in				
Е	2.30 in	J	3.73 in				





CELL#2

Κ

Standard Features

- Strain relief cable fittings
- Removable connectors for easy wiring
- Connect two or four single load cells (even number of load cells only)

Applications

- Truck and floor scales
- Limited space installations

Specifications

Cable Fittings:

Five nylon 0.187 to 0.312 in cable strain reliefs

Rating/Material:

NEMA Type 4X, 40 psi washdown Stainless steel

Connectors:

Electrovert 0.197 in (5.0 mm) miniature two piece connectors. Maximum wire size #14 AWG; connectors are removable for easy wiring.

Trimming:

Individual cell, signal trim

Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers: 100,000 ohm, 25-turn cermet

Circuit Board:

 6.5×1.5 in, with anti-fungal coating

Warranty:

One-year limited

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CELL#3



Part#	Description	Price
91782	JB8SP signal trim eight-channel with expansion	\$495.00
173807	JB8SP signal trim eight-channel with expansion, FM approved	\$525.00
89889	Board only	\$395.00
172415	Board only, FM approved	\$425.00
165273	Enclosure only (does not include cord grips and filter)	\$175.00

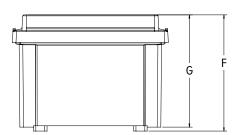
Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

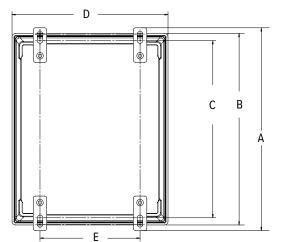
Options/Accessories

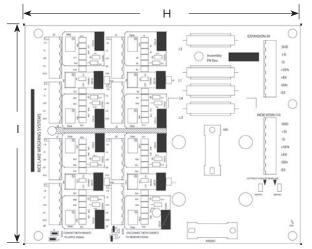
Part#	Description	Price
215178	Mounting tabs-new style (set of 4, includes screws), polycarbonate	\$15.00
92734	Coupling, 1/2-in NPT cord grip to 3/4-in NPT conduit fitting	\$27.00
92735	Coupling, 3/8-in NPT cord grip to 3/4-in NPT conduit fitting	\$27.00

Dimensions

JB8SP					
Α	12.13 in	F	5.98 in		
В	11.45 in	G	6.95 in		
С	11.38 in	Н	7.20 in		
D	10.59 in	1	5.70 in		
Е	9.32 in				







Standard Features

- Polycarbonate, NEMA Type 4X enclosure
- PreVent[™] breather vent
- · Conformal-coated circuit board
- Removable load cell connectors
- Section and individual cell trim capability
- · Connect two, four, six or eight single load cells (even number of cells only)
- · Expansion port

Applications

• Truck, livestock and railroad scales

Specifications

Cable Fittings:(9) 3/8 in NPT 0.157 to 0.314 in (2) 1/2 in NPT 0.272 to 0.472 in

Rating/Material:

NEMA Type 4X

Polycarbonate with overlapping solid cover, stainless steel screws

Connectors:

Pluggable screw type, 12 to 28 AWG

Trimming:

Individual cell , range trim

Temperature:

Operating:

0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:

100,000 ohm, 25 turn cermet

Circuit Board:

5.7 × 7.2 in with conformal coating

Warranty:

One-year limited

Approvals:

cFMus



Part#	Description	Price
91783	JB8SPT signal trim junction box with transient protection	\$700.00
89889	Board only	\$395.00
89894	Transient board	\$235.00
165273	Enclosure only (does not include cord grips and filter)	\$175.00

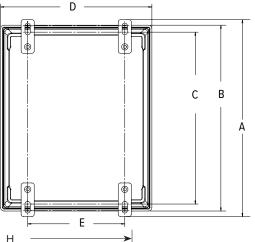
Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Options/Accessories

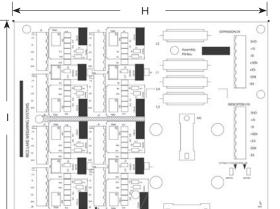
Part#	Description	Price
215178	Mounting tabs-new style (set of 4, includes screws), polycarbonate	\$15.00
92734	Coupling, 1/2-in NPT cord grip to 3/4-in NPT conduit fitting	\$27.00
92735	Coupling, 3/8-in NPT cord grip to 3/4-in NPT conduit fitting	\$27.00

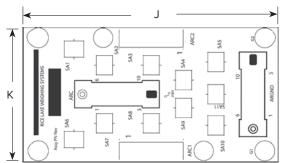
Dimensions

JB	8SP	
Α	12.13 in	
В	11.45 in	
С	11.38 in	
D	10.59 in	
Е	9.32 in	
F	5.98 in	
G	6.95 in	
Н	7.20 in	
1	5.70 in	
J	3.80 in	
K	2.30 in	



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Standard Features

- Transient protection
- PreVent[™] breather vent
- Conformal-coated circuit board
- Removable load cell connectors
- Section and individual cell trim capability
- Field replaceable transient protection
- One coupling, 0.5 inch NPT cord grip to 0.75-inch NPT conduit fitting for homerun cable
- Connect two, four, six or eight single load cells (even number of cells only)
- Expansion port

Applications

• Truck, livestock and railroad scales

Specifications

Cable Fittings:(9) 3/8 in NPT 0.157 to 0.314 in (2) 1/2 in NPT 0.272 to 0.472 in

Rating/Material:

NEMA Type 4X

Polycarbonate with overlapping solid cover, stainless steel screws

Connectors:

Pluggable screw type, 12 to 28 AWG

Trimming:

Individual cell trim

Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:

100,000 ohm, 25-turn cermet

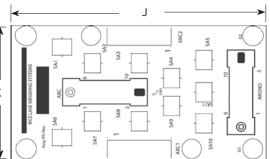
Circuit Board:

 5.7×7.2 in with conformal coating

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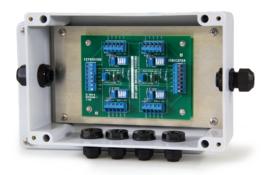
Warranty:

One-year limited



Transient Board

Load Cell Board

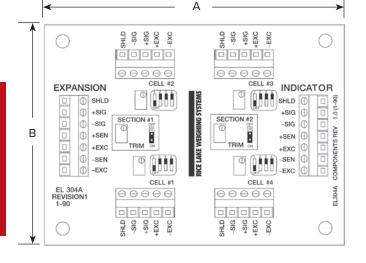


Part#	Description	Price
21169	EL304A signal trim four-channel junction box	\$350.00
21301	Board only	\$235.00
165275	Enclosure only (includes cord grips)	\$180.00
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Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Dimensions

EL304A					
Α	5.50 in	D	6.62 in		
В	4.00 in	Ε	1.38 in		
С	9.88 in	F	3.25 in		



Standard Features

- Strain relief cable fittings
- Individual cell signal disconnect switches
- Connect two or four single cells (even number of cells only)
- Corner and/or section trim applications
- · Expansion port

Applications

· Livestock scales, tank and vessel weighing

Specifications

Cable Fittings:

Four nylon cable strain reliefs, 0.079 to 0.236 in Two nylon cable strain reliefs. 0.236 to 0.354 in

Rating/Material:

NEMA Type 4X, 40 psi washdown Fiberglass Reinforced Polyester (FRP)

Connectors:

Electrovert 0.197 in (5.0 mm) miniature screw terminals

Maximum wire size #14 AWG

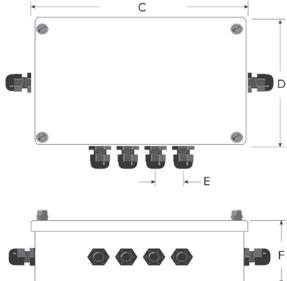
Trimming:

Individual cell and section, signal trim

Potentiometers:

100,000 ohm, 25-turn cermet

Warranty:





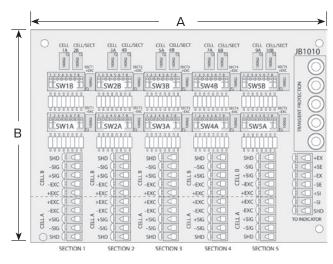


Part#	Description	Price
36231	JB1010 signal/excitation trim junction box	\$685.00
36351	Board only	\$475.00
165276	Enclosure only (includes cord grips)	\$275.00

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of

Dimensions

JB1	010T
Α	6.75 in
В	4.75 in
С	7.88 in
D	10.75 in
Е	5.00 in



Standard Features

- Transient protection
- · Signal or excitation trim
- Front panel mounting
- · Strain relief cable fittings
- Connect up to 10 single load cells
- Trims odd numbers of cells without modification

Applications

- Tank, truck, railroad, hopper and floor scales
- Universal field replacement of existing boxes
- · Expansion of existing scales

Specifications

Cable Fittings:

Nylon waterproof strain-relief type

Rating/Material:

NEMA Type 4X Fiberglass Reinforced Polyester (FRP)

Terminal Block:

Rated 300V/15A;

7-position screw terminal can each accommodate up to #16 AWG

Trimming:

Individual cell, section signal and excitation trim

Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:

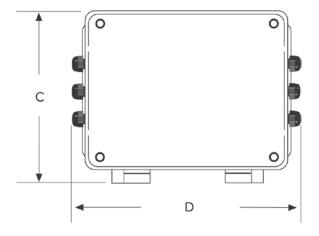
100,000 ohm, 25-turns cermet

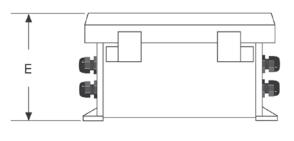
Mounting Centers: 3.75 × 2.31 in (95.2 × 58.7 mm)

Cable Diameter:

0.079 to 0.314 in

Warranty:



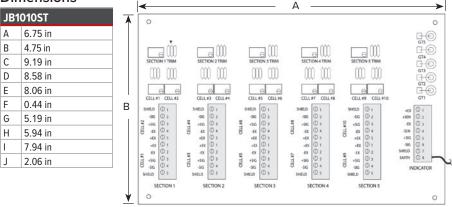




Part#	Description	Price
68813	JB1010ST signal trim junction box	\$615.00
68811	Board only	\$465.00
165277	Enclosure only (includes cord grips)	\$485.00
165277		

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability. Any unused channels require modification.

Dimensions



Standard Features

- Transient protection using gas discharge tubes
- Stainless steel, NEMA Type 4X enclosure
- Section and individual cell trim capability
- Compact enclosure only 1.75 in deep
- · Strain relief cable fitting
- Connect two, four, six, eight or 10 single load cells (even number of load cells only)
- Legal for Trade sealing screws, wire and seal included

Applications

- Tank, truck and railroad scales
- Summing 10 load cells with individual and section trimming capability

Specifications

Cable Fittings:

Eleven nylon 0.079 to 0.314 in cable strain reliefs

Ratina/Material:

NEMA Type 4X

Stainless steel

Connectors:

Electrovert 0.197 miniature screw terminals

Maximum wire size: #14 AWG

External enclosure ground stud

Trimming:

Individual cell and section signal trim

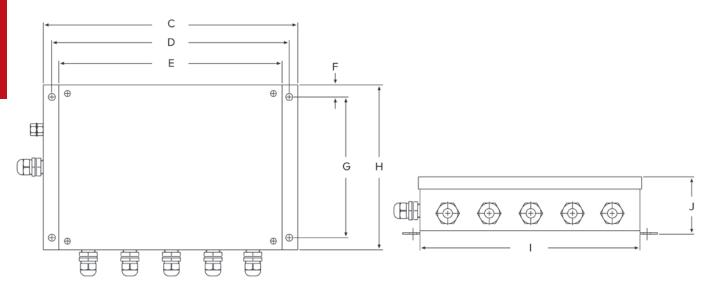
Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Potentiometers:

100,000 ohm, 25-turn cermet, individual trim 100 ohm, for section trimming

Warranty:



JUNCTION BOXES / SIMULATORS

Replacement Junction Boxes, Boards or Components

Model	Complete J-Box Replacement	Replacement Board Only	Replacement Cord Grips	Replacement Pressure & Condensation Vent	Desiccant Pack
JB4SS	88956 \$295.00	88958 \$175.00	58983 =PG7, \$5.00 59001 =PG11 \$3.70	88733 PreVent" breather (vent) \$22.00 88734 (vent nut) \$1.05	92240 \$1.20
JB4ES	91779 \$295.00	89446 \$170.00	58983 =PG7, \$5.00 59001 =PG11 \$3.70	88733 PreVent" breather (vent) \$22.00 88734 (vent nut) \$1.05	92240 \$1.20
JB4SP JB4SPT	91780 \$310.00 92762 \$495.00	88958 (load cell) \$175.00 & 89894 (transient protection) \$235.00	58983 =PG7, \$5.00 59001 =PG11 \$3.70	88733 PreVent" breather (vent) \$22.00 88734 (vent nut) \$1.05	16039 \$2.30
JB4EP JB4EPT	91781 \$310.00 92763 \$495.00	89446 (load cell) \$170.00 & 89894 (transient protection) \$235.00	58983 =PG7, \$5.00 59001 =PG11 \$3.70	88733 PreVent" breather (vent) \$22.00 88734 (vent nut) \$1.05	16039 \$2.30
EL204	73428 \$245.00	88958 \$175.00	N/A	N/A	N/A
JB8SP	91782 \$495.00 173807 FM approved \$525.00	89889 \$395.00 172415 FM approved \$425.00	15655 (cord grip) \$2.10 & 15656 (nut) \$1.05 = 3/8 in NPT 15628 (cord grip) \$5.00 & 15630 (nut) \$3.00 = 1/2 in NPT	88733 PreVent" breather (vent) \$22.00 88734 (vent nut) \$1.05	16039 \$2.30
JB8SPT	91783 \$700.00	89889 (load cell) \$395.00 & 89894 (transient protection) \$235.00	15655 (cord grip) \$2.10 & 15656 (nut) \$1.05 = 3/8 in NPT 15628 (cord grip) \$5.00 & 15628 (nut) \$3.00 = 1/2 in NPT	88733 PreVent" breather (vent) \$22.00 88734 (vent nut) \$1.05	16039 \$2.30
EL304A	21169 \$350.00	21301 \$235.00	N/A	N/A	N/A
JB1010	36231 \$685.00	36351 \$475.00	N/A	N/A	A/N
JB1010ST	68813 \$615.00	68811 \$465.00	N/A	N/A	N/A
EL210	91781 , JB4EP*\$310.00	92472 \$155.00	58983 =PG7, \$5.00 59001 =PG11 \$3.70	N/A	N/A
EL211A	91780 , JB4SP* \$310.00 (However the board does not have section trim capabilities)	92473 , \$160.00 (However the board does not have section trim capabilities)	58983 =PG7, \$5.00 59001 =PG11 \$3.70	N/A	N/A
EL604-AL	88956 , JB4SS*\$295.00	88958 \$175.00	58983 =PG7, \$5.00 59001 =PG11 \$3.70	N/A	N/A
EL604STA	88956 , JB4SS* \$295.00	88958 \$175.00	58983 =PG7, \$5.00 59001 =PG11 \$3.70	N/A	N/A
EL604ETA	91779 , JB4ES* \$295.00	89446 \$170.00	58983 =PG7, \$5.00 59001 =PG11 \$3.70	N/A	N/A
EL504	21165 \$425.00	21296 \$275.00	N/A	N/A	N/A
JB808S	91782, JB8SP* \$495.00	92471 \$385.00	15655 (cord grip) \$2.10 & 15656 (nut) \$1.05 = 3/8 in NPT 15628 (cord grip) \$5.00 & 15630 (nut) \$3.00 = 1/2 in NPT	N/A	N/A
JB818ST	91783 , JB8SPT*\$700.00	Need (1) 77445 \$68.00 (1) 89889 \$395.00, & (1) 89894 \$235.00	15655 (cord grip) \$2.10 & 15656 (nut) \$1.05 = 3/8 in NPT 15628 (cord grip) \$5.00 & 15630 (nut) \$3.00 = 1/2 in NPT	N/A	N/A
*See cata	*See catalog pages for enclosure dimensions				





Approvals







Standard Features

- iQUBE² board has four A/D channels
- Supports networking up to four boards, for 16 A/D channels; connection can be up to four separate platforms with a system total, or four separate scale systems
- · Diagnostic routines for weighing errors and system health
- Cell tests for overloaded, underloaded, zero reference, drift, noise and unbalanced conditions
- · Onboard status LEDs for communication and visual bi-color indication of cell health
- Cell emulator compensates for load cell failure until a repair can be made

- Cal-Match® algorithm automatically trims and calibrates the scale in one pass of test weights (stopping over each mount)
- · Standard communications
- Option card slot for fiber optic, Ethernet TCP/IP, wireless TCP/IP, USB or RS-232/RS-485
- Communicates to 920i®, 1280, VIRTUi2® using ASCII (EDP) serial commands

Applications

- · Truck, railroad, tank and hopper scales
- · Multi-channel scales

Specifications

Voltage Input:

115/230 VAC power supply DC/DC converter for 9 to 36 V 6 to 12 VDC to CPU

Analog Signal Input Range: -78 to +78 mV

Analog Signal Sensitivity:

0.3 uV/grad at 30 Hz 0.5 uV/grad at 100 Hz 1.2 uV/grad at 500 Hz

A/D Sampling Rate:

2.5 to 500 Hz (selectable)

Digital I/O:

Four per card, for push-button operation, setpoint control or cell status

Communication Ports:

RS-232/RS-422

Load Cell Inputs:

Four channels per board up to four networked boards

Load Cell Excitation:

5 V DC, 57 mA maximum per channel

Rating/Material:

Polycarbonate (NEMA Type 4X) enclosure with overlapping solid cover, stainless steel screws Stainless steel (NEMA Type 4X) enclosure with hinged cover

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: -13 °F to 140 °F (-25 °C to 60 °C)

Warranty:

Two-year limited

Approvals:

NTEP 03-032A1 Measurement Canada AM-5561 CE Marked cULus E151461

Part Number/Price

Part#	Description	Est. Weight	Price
With AC Po	wer Supply		
108425*	iQUBE ² , four-channel, polycarbonate small junction box	9 lb	\$1,365.00
108426	iQUBE ² , four-channel, polycarbonate large junction box	11 lb	\$1,575.00
108427	iQUBE ² , eight-channel, polycarbonate large junction box	11 lb	\$2,625.00
108428*	iQUBE ² , four-channel, stainless steel small junction box	13 lb	\$2,573.00
Without Po	wer Supply		
108429*	iQUBE ² , four-channel, polycarbonate small junction box	8 lb	\$1,260.00
108430	iQUBE ² , four-channel, polycarbonate large junction box	10 lb	\$1,470.00
108431	iQUBE ² , eight-channel, polycarbonate large junction box	10 lb	\$2,520.00
108432 * iQUBE ² , four-channel, stainless steel small junction box 12 lb		12 lb	\$2,468.00
Conduit Ad	apters		
92734	Conduit adapter 3/8 in NTP to 3/4 in NPT		\$27.00
92735	Conduit adapter 1/2 in NTP to 3/4 in NPT		\$27.00

^{*} Enclosure size 8 x 10in required for truck scale junction box pocket

Options/Accessories

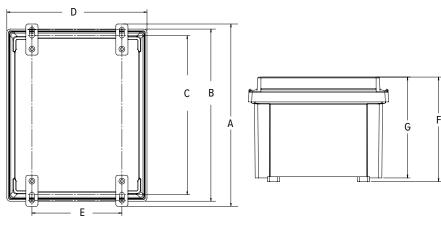
Part #	Description	Price
108433	Four-channel iQUBE ² board with cables and connectors	\$1,050.00
97475	DC/DC power supply, 9 to 36 VDC (requires factory installation)	\$255.00
108434	Remote power supply 115/230 VAC and transient board with enclosure	\$473.00
109396	Transient board	\$95.00
110949	Transient board with mount	\$116.00
161954	Hotspot in polycarbonate enclosure	\$3,195.00
215178	Mounting tabs-new style (set of 4, includes screws), polycarbonate	\$15.00

Options/Accessories

Part #	Description	Price
	tation Card	11100
108579	RS-232/RS-485 port	\$300.00
77142	Ethernet TCP/IP	\$545.00
206272	Wireless LAN 802.11 A/B	\$610.00
93245	USB port	\$225.00
77143	Fiber-optic board	\$225.00
77788	Fiber-optic board (installed in 920i)	\$231.00
	er (Max Run 350 ft)	\$235.00
78026	Fiber-optic cable, 100 ft	\$185.00
78026	Fiber-optic cable, 100 ft	\$350.00
78910		\$350.00 \$1.85/ft
Home Run	Fiber-optic cable, custom length	\$1.65/10
116587	EL166 16 gauge, six conductor, shielded	\$2.65/ft
Software	ELTOO TO gauge, six conductor, sinetaed	\$2.05/10
108436	VIRTUi² activation part number	\$578.00
112262	Firmware update flash cable	\$69.00
_	cators for use with iQUBE ² , requires version 4 software	\$69.00
77790	920i Universal, 115 VAC, without A/D	\$3,195.00
77791	920i Universal, 230 VAC, without A/D	\$3,195.00
93243	920i Deep Universal, 115 VAC, without A/D	\$3,445.00
93244	920i Deep Universal, 230 VAC, without A/D	\$3,445.00
77792	920i Panel Mount, 115 VAC, without A/D	\$3,195.00
77793	920i Panel Mount, 230 VAC, without A/D	\$3,195.00
77794	920i Wall Mount, 115 VAC, without A/D	\$4,095.00
77795	920i Wall Mount, 230 VAC, without A/D	\$4,095.00
-	ators for use with iQUBE ²	\$4,055.00
189623	1280 7 inch touch-only, AC power supply, no power cord, standard display, without A/D	\$3,180.00
188526	1280 7 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	\$3,280.00
188395	1280 12 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	\$4,345.00
181073	1280 Panel Mount, DC power supply, no power cord, standard display, without A/D	\$3,180.00
178473	1280 Panel Mount, AC power supply, no power cord, high visibility display, without A/D	\$3,280.00
205677	1280 Wall Mount, AC power supply, U.S. power cord, standard display, without A/D	\$3,780.00
171667	1280 Wall Mount, AC power supply, U.S. power cord, high visibility display, without A/D	\$3,880.00
174750	1280 Panel Mount, AC power supply, no power cord, standard display, without A/D	\$3,180.00
174207	1280 Universal, AC power supply, Europe power cord, standard display, without A/D	\$3,380.00
171582	1280 Universal, AC power supply, U.S. power cord, standard display, without A/D	\$3,380.00
188713	1280 Universal, DC power supply, no power cord, standard display, without A/D	\$3,380.00
171540	1280 Universal, DC power supply, no power cord, high visibility display, without A/D	\$3,480.00
172419	1280 Universal, AC power supply, U.S. power cord, high visibility display, without A/D	\$3,480.00

Dimensions

iQl	iQUBE ²		
Sta	inless Steel		
Α	13.50 in (343 mm)	Е	8.00 in (203 mm)
В	12.28 in (312 mm)	F	6.29 in (160 mm)
С	12.75 in (324 mm)	G	6.20 in (157 mm)
D	10.28 in (261 mm)		
Pol	ycarbonate Small		
Α	12.13 in (308 mm)	Е	5.98 in (152 mm)
В	11.45 in (291 mm)	F	6.95 in (176 mm)
С	10.51 to 11.30 in (267 to 287 mm)	G	6.71 in (170 mm)
D	9.32 in (236.84 mm)		
Polycarbonate Large			
Α	14.13 in (359 mm)	Е	7.99 in (203 mm)
В	13.46 in (341 mm)	F	7.02 in (178 mm)
С	12.52 to 13.31 in (318 to 338 mm)	G	6.79 in (172 mm)
D	11.36 in (289 mm)		







Approvals







Standard Features

- iQUBE³ CPU board: Four A/D channels, SD Slot, RS232/485, four DIOs, Ethernet TCP/IP (wired), USB-C
- iQUBE³ CPU board supports networking up to four iQUBE³ four-channel boards (four A/D channels each), for a total of 24 A/D channels; connection can be up to four separate scales and a system total
- Diagnostic routines for weighing errors and system health
- Additional diagnostics for overloaded, underloaded, zero reference, drift, noise and unbalanced conditions

- Onboard status LEDs for communication and visual bi-color indication of cell health
- Cell emulator compensates for a failed load cell
- Cal-Match® algorithm automatically trims and calibrates the scale in one pass of test weights (stopping over each mount)
- · Standard communications
- Two option card slots for fiber optic, analog output (16-bit, 0 to 10 VDC, 0 to 20 mA, 4 to 20 mA), relay or Serial (two RS-232 or RS-422/485)
- Communicates to 1280

Applications

- 1280 indicator
- Truck and railroad scales
- Tank and hopper scales
- Multi-channel scales

Specifications

Voltage Input:

AC voltage: 100 to 240 VAC; 50/60 Hz DC voltage: 9 to 36 VDC

Analog Signal Input Range:

-51 to +51 mV

Analog Signal Sensitivity:

0.3 uV/grad at 30 Hz 0.5 uV/grad at 100 Hz

1.2 uV/grad at 500 Hz A/D Sampling Rate:

2.5 to 500 Hz (selectable)

Digital I/O:

Four per card, for push-button operation, setpoint control or cell status

Communication Ports:

RS-232/RS-422/485

USB-C

Ethernet TCP/IP, w ired

Load Cell Inputs:

Connect up to 24 load cells (four, per board)

Load Cell Excitation:

3.3 VDC, 38 mA maximum per channel

Rating/Material:

Polycarbonate (NEMA Type 4X) enclosure with overlapping solid cover, stainless steel screws Stainless steel (NEMA Type 4X) enclosure with hinged cover

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: -40 °F to 140 °F (-40 °C to 60 °C) Storage: -40 °F to 158 °F (-40 °C to 70 °C)

Warranty:

Two-year limited

Approvals:

NTEP 25-041 Measurement Canada (pending) cULus (pending) CE Marked (pending)

Part Number/Price

Part#	Description Est. Weight		Price
With AC Po	wer Supply		
227157	iQUBE ³ , four-channel, polycarbonate small junction box	9 lb	Consult
227158	iQUBE ³ , four-channel, polycarbonate large junction box	11 lb	Consult
227159	iQUBE ³ , eight-channel, polycarbonate large junction box	11 lb	Consult
227160*	iQUBE ³ , four-channel, stainless steel small junction box	13 lb	Consult
Without Po	wer Supply		
227161	iQUBE ³ , four-channel, polycarbonate small junction box	8 lb	Consult
227162	iQUBE ³ , four-channel, polycarbonate large junction box	10 lb	Consult
227163 iQUBE ³ , eight-channel, polycarbonate large junction box 10 lb		Consult	
227164* iQUBE ³ , four-channel, stainless steel small junction box 12lb		Consult	
Conduit Ad	apters		
92734	Conduit adapter 1/2 in NPT to 3/4 in NPT		\$27.00
92735	92735 Conduit adapter 3/8 in NPT to 3/4 in NPT		\$27.00

*Small iQUBE3 required for truck scale junction box pocket.

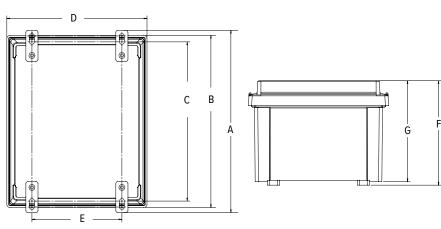


Options/Accessories

Part #	Description	Price
231373	iQUBE ³ CPU Board, Four-channel with cables and connectors	Consult
227169	iQUBE ³ 4-Channel Board, Four-channel with cables and connection	Consult
227171	Power Supply, 115/230VAC Input, 24VDC Output, FRP Enclosure, iQUBE ³ Remote Power	Consult
230935	Bridge Resistance Card Assembly, 4-channel	Consult
97475	DC/DC power supply, 9 to 36 VDC (requires factory installation)	\$255.00
108434	Remote power supply 115/230 VAC and transient board with enclosure	\$473.00
109396	Transient board	\$95.00
110949	Transient board with mount (only used with multiple enclosures)	\$116.00
231993	iQUBE ³ Enclosure, Small, Polycarbonate, Includes Kickstand Bracket	Consult
231994	iQUBE ³ Enclosure, Large, Polycarbonate, Includes Kickstand Bracket	Consult
231995	iQUBE³ Enclosure, Stainless Steel	Consult
215178	Enclosure mounting tabs-new style (set of 4, includes screws), polycarbonate	\$15.00
195084	Analog card, kit	\$360.00
211709	Relay card, kit	\$360.00
Communicat	on Card	
211710	Dual Serial Card (RS232 and/or RS422/485), option	\$300.00
230919	Fiber-optic Card Assembly	\$545.00
231366	Wireless LAN 802.11 A/B	Consult
	(Note: Factory installed, must be ordered at the time of new iQUBE³)	Consuit
<u> </u>	(Max Run 500 ft)	
78026	Fiber-optic cable, 100 ft (includes polishing kit)	\$185.00
78027	Fiber-optic cable, 200 ft (includes polishing kit)	\$350.00
78910	Fiber-optic cable, duplex 1.00 mm core 2.2 mm, custom length	\$1.85/ft
1280 Indicat	ors for use with iQUBE ³	
189623	1280 7 inch touch-only, AC power supply, no power cord, standard display, without A/D	\$3,180.00
188526	1280 7 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	\$3,280.00
188395	1280 12 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	\$4,345.00
181073	1280 Panel Mount, DC power supply, no power cord, standard display, without A/D	\$3,180.00
178473	1280 Panel Mount, AC power supply, no power cord, high visibility display, without A/D	\$3,280.00
205677	1280 Wall Mount, AC power supply, U.S. power cord, standard display, without A/D	\$3,780.00
171667	1280 Wall Mount, AC power supply, U.S. power cord, high visibility display, without A/D	\$3,880.00
174750	1280 Panel Mount, AC power supply, no power cord, standard display, without A/D	\$3,180.00
174207	1280 Universal, AC power supply, Europe power cord, standard display, without A/D	\$3,380.00
171582	1280 Universal, AC power supply, U.S. power cord, standard display, without A/D	\$3,380.00
188713	1280 Universal, DC power supply, no power cord, standard display, without A/D	\$3,380.00
171540	1280 Universal, DC power supply, no power cord, high visibility display, without A/D	\$3,480.00
172419	1280 Universal, AC power supply, U.S. power cord, high visibility display, without A/D	\$3,480.00

Dimensions

iQl	iQUBE ³		
Sta	inless Steel		
Α	13.50 in (343 mm)	E	8.00 in (203 mm)
В	12.28 in (312 mm)	F	6.29 in (160 mm)
С	12.75 in (324 mm)	G	6.20 in (157 mm)
D	10.28 in (261 mm)		
Polycarbonate Small			
Α	12.13 in (308 mm)	Е	5.98 in (152 mm)
В	11.45 in (291 mm)	F	6.95 in (176 mm)
С	10.51 to 11.30 in (267 to 287 mm)	G	6.71 in (170 mm)
D	9.32 in (236.84 mm)		
Polycarbonate Large			
Α	14.13 in (359 mm)	E	7.99 in (203 mm)
В	13.46 in (341 mm)	F	7.02 in (178 mm)
С	12.52 to 13.31 in (318 to 338 mm)	G	6.79 in (172 mm)
D	11.36 in (289 mm)		

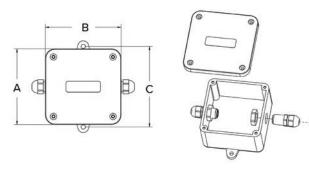




Part#	Description	Price
21161	EL168 one-cell junction box	\$85.00

Dimensions

EL168	
Α	4.38 in (111 mm)
В	4.38 in (111 mm)
С	4.66 in (118 mm)



Standard Features

- Non-metallic PVC enclosure with separate input and output cable fittings
- · No soldering, compression or swaged fittings are required

Applications

• Splicing or extending load cell cable

Specifications

Dimensions:

 $(L \times W \times H)$ $4.0 \times 4.0 \times 2.5$ in

Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Cable Fittings: Nylon waterproof strain-relief type

Cable Diameter:

0.079 to 0.314 in (2 to 8 mm)

Terminal Block:

Rated 300 V/15 A; seven-position, screw terminal can each accommodate up to #16 AWG

Warranty:

One-year limited

TP75 DC

Transient Protection



Standard Features

- Protects load cells and indicators from voltage transients
- · Avalanche diode design
- · Full six-wire with shield protection
- NEMA Type 4X enclosure
- Unlimited number of parallel load cells; up to eight in series
- · Terminal lugs provided



Applications

- Truck, railroad, tank, bin and hopper scales
- · Suitable for outdoor use

Specifications

Protection Type:

Six-wire type with separate shield

Maximum Excitation Voltage:

22.8 VDC

Response Time:

Five nanoseconds

Peak Surge Currents:

100 amps

Grounding:

10 AWG wire or larger (not provided)

Cable Fitting:

(2) Nylon strain relief for 0.187 to 0.312 in diameter cable

Enclosure:

Impact-resistant polycarbonate NEMA Type 4X, maximum 40 psi washdown

Temperature:

Operating: -4 °F to 149 °F (-20 °C to 65 °C)

Dimensions:

 $(L \times W \times H)$ 3.16 × 2.20 × 1.18 in

Warranty:

One-year limited

Part Number/Price

Part#	Description	Price
33185	TP75 DC transient protection	\$340.00

Options/Accessories

-		
Part#	Description	Price
31164	Circuit board only	\$265.00





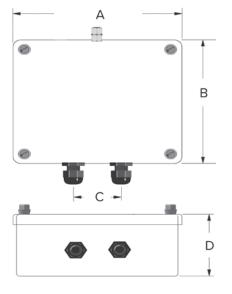
Part#	Description	Price
21134	UJB3T6	\$495.00

Options/Accessories

Part#	Description	Price
21135	Six-wire load cell transient protector, board only	\$285.00

Dimensions

UJB3T6 DC		
Α	7.63 in	
В	6.63 in	
С	2.0 in	
D	3.25 in	



Standard Features

- Protects load cells from voltage transients
- Compatible with signals down to $1\,\mu\text{V}$ per grad
- · Factory serviceable
- Full six-wire with shield protection
- #6 SEMS screw type; accepts spade lugs, tinned leads or bare wires up to #12 AWG
- Up to eight parallel or summed load cells

Applications

- Installations exposed to significant transients
- Environments where serial communication lines and load cells must be protected

Specifications

Protection Type:

Six-wire type with separate shield

Maximum Excitation Voltage:

20 VDC or 20 VAC

Clamping Voltage:

75 VDC or 75 VAC

Clamping Time:

75 VDC Stages <100 nanoseconds typical

Peak Surge Currents:

75 VDC Stage, 5,000 amps

Maximum Serial Transmission Rate:

50K baud

Series Resistance:

0.219 ohm typical

Series Inductance: 110 µH typical

Grounding:

20 ft insulated #10 AWG wire

Cable Fitting:

(2) Nylon strain relief for 0.079 to 0.236 in diameter cable

Enclosure:

NEMA Type 4X, maximum 40 psi washdown Fiberglass Reinforced Polyester (FRP)

Temperature:

Operating: 4 °F to 104 °F (-10 °C to 40 °C)

Circuit Board: 6.75×4.75 in with anti-fungal coating

Dimensions:

$(L \times W \times H)$

 $7.63 \times 6.63 \times 3.25$ in

Warranty:



Standard Features

- Two metal mounting brackets
- Three stages of protection: Gas discharge tube, series resistor and transient voltage suppressor (TVS)
- Two terminal posts for ground
- RS-232 high energy surge protector
- Terminal blocks for transmit, receive, request to send, clear to send and signal ground
- Safe for use with computers and PLCs
- · Also works with RS-485, RS-422 and 20 mA

Applications

Indicators, remote displays, printers, computers and PLCs

Specifications

Clamping Voltage (Stage One):

72 V DC minimum, 108 V DC maximum

Series Resistance (Stage Two): 2.7 ohm

Clamping Voltage (Stage Three):

14.3 V minimum, 15.7 V maximum

Clamping Time:

< 5 × 10⁹ seconds

Temperature:

Operating: 0 °F to 122 °F (-18 °C to 50 °C)

Connectors:

Five-position terminal blocks

Dimensions:

 $(L \times W \times H)$

Approximately $4.5 \times 3.3 \times 1.8$ in

Warranty:

One-year limited

Approvals:

CE Listed

Part Number/Price

Part#	Description	Price
69201	TP232	\$190.00

Options/Accessories

Part#	Description	Price
17778	12 in ground strap	\$22.00
17781	24 in ground strap	\$22.00
69516	Additional installation manual	\$6.00

Ranger 1

Variable Range Simulator



Part Number/Price

Part#	Description	Price
68029	Ranger 1 variable range simulator	\$160.00

Options/Accessories

Part#	Description	Price
21116	Cable (4 ft) with banana plugs	\$70.00

Standard Features

- ABS plastic case, weighs less than 1 lb
- · Large vernier knob, smooth 10-turn potentiometer
- · Ideal tool for troubleshooting a scale system, bench testing stability of indicators and setpoint simulation

Specifications

Variable Range:

0 to 3 mV/V

Impedance:

700 ohm nominal

Temperature:

Operating:

0 °F to 122 °F (-18 °C to 50 °C) **Connectors:**

Binding posts suitable for banana plug or 14 gauge wire

Temperature Coefficient:

±100 ppm/°C

Dimensions:

 $(L \times W \times H)$ $4.5 \times 3.5 \times 1.25$ in (114 × 89 × 32 mm)

Warranty:



Part#	Description	Price
68030	Ranger 3 simulator	\$425.00

Options/Accessories

Part#	Description	Price
21116	Cable (4 ft) with banana plugs	\$70.00

Standard Features

- ABS plastic case, weighs less than 1 lb
- Fixed rotary switch, -0.5 mV/V to 4.5 mV/V in nine steps of 0.5 mV/V per step
- Ideal tool for calibrating the indicator A/D offset and gain setting
- A/D calibration steps for -0.5 mV/V for offset and 4.5 mV/V for gain
- Used in troubleshooting and testing systems

Specifications

Range:

-0.5 mV/V to 4.5 mV/V

Impedance:

350 ohm nominal

Nonlinearity:

Less than 0.02%

Connectors:

Binding posts suitable for banana plug or 14-gauge wire

Temperature Coefficient:

±5 ppm/ °C

Dimensions:

(L × W × H) 4.5 × 3.5 × 1.25 in

Warranty:

One-year limited

Ranger 5

Variable Range Simulator



Standard Features

- ABS plastic case, weighs less than 1 lb
- Fixed rotary switch, -0.5 mV/V to 4.5 mV/V in nine steps of 0.5 mV/V per step
- 10-turn vernier knob with locking graduated dial
- Vernier selection of four ranges: Off, Fine, Medium and Coarse
- Ideal tool for calibrating indicator A/D offset and gain setting
- A/D calibration steps for -0.5 mV/V for offset and 4.5 mV/V for gain
- Used in testing, troubleshooting and calibrating digital weight indicator

Specifications

Fixed Steps:

-0.5 mV/V to 4.5 mV/V

Vernier:

Variable range: up to 0.5 mV/V, up to 1 mV/V, up to 1.5 mV/V $\,$

Impedance:

350 ohm nominal

Nonlinearity:

Less than 0.02%

Connectors:

Binding posts suitable for banana plug or 14 gauge wire

Temperature Coefficient:

± 5 ppm/ °C

Dimensions:

 $\begin{array}{l} (L\times W\times H) \\ 4.5\times 3.5\times 1.25 \ in \end{array}$

Warranty:

One-year limited

Part Number/Price

Part#	Description	Price
68031	Ranger 5 simulator	\$695.00

Options/Accessories

Part#	Description	Price
21116	Cable (4 ft) with banana plugs	\$70.00

Description

Options/Accessories

Description

Part#

21116



157323 Ranger 7 high resolution calibration simulator

Cable (4 ft) with banana plugs

Standard Features

- · High resolution design
- Used in high precision testing, troubleshooting and calibrating digital weight indicators
- Switchable offset
- Painted die-cast enclosure

Specifications

Vernier:

Two ranges; one is equal to the sum of the 0.05 mV/V switch and the 0 to 0.5 mV/V switch. The other is the sum of the 0.5 mV/V, 0.1 mV/V and 0.01 mV/V switches.

Load Impedance:

Three settings: X0.5: 700 ohm

X1: 350 ohm (one standard load cell)

X4: 87.5 ohm (four load cell platform)

Linearity:

 $\pm 0.01\% + 1\mu V$

Connectors:

Low Thermal Electronics, Type 2758 precision gold plated binding posts, standard banana jacks or . 14 AWG wire

Temperature Coefficient:

5 ppm/°C

Zero Offset:

Price

Price

\$70.00

\$1,050.00

± 0.0005 mV/V

Output Range:

0 to 3 mV/V in 0.01 mV/V steps

LED Annunciators:

EXC +

EXC -

Offset ON 0.5 mV/V

0.1 mV/V

Warranty:

One-year limited

Transducer Simulator 4



Part Number/Price

Part#	Description	Price
22513	Transducer simulator 4	\$850.00

Options/Accessories

F	Part#	Description	Price
2	21116	Cable (4 ft) with banana plugs	\$70.00

Standard Features

- · Designed for high accuracy
- · Sealed lid with neoprene O-ring
- Dustproof and crush tested to 500 lb
- Four operational modes include: vernier adjustment, calibrated adjustment, 0.25 mV/V offset and 0.50 mV/V offset
- · Ideal for setpoint or batching simulation

Specifications

Range:

Choose any fixed setting \pm 0.25 mV or 0.50 mV through a 10-turn wire-wound potentiometer with locking clutch, fixed and variable

Maximum Voltage:

15 V

Linearity:

Less than ± 0.02% full scale

Temperature Coefficient:

Absolute 5 ppm/°C; tracking less than 0.5 ppm/°C

Load Factors:

Simulates one, two, three, four or eight 350 ohm load cells; or two, four, six, eight or 16 700 ohm load cells

Offset:

+0.25 mV/V for use with digitally calibrated meters requiring positive dead load for calibration

Connectors:

Binding posts, suitable for loose wires or banana jacks

Warranty: