Indicators / Controllers

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Standard Features

120

- LED display
- · Configurable analog to digital measurement rate
- Primary/secondary units configuration: lb, kg, ounces, grams
- · Five-button operation
- Two independent communication ports
- Programmable ticket format, up to two 180-character printout
- Full front-panel digital calibration and configuration
- Tilt stand
- · Three-stage digital filtering
- · Consecutive transaction numbering
- · Time and date (volatile)

120 Plus

- LCD display
- Internal rechargeable lithium battery and wall adapter
- Power save feature for 700 hours of battery life
- Ten stored tare values
- Display hold (based on three second average)
- · Time and date
- Configurable with Revolution® software

Specifications

Power:

120/120 Plus

Line voltages: 115 or 230 VAC Frequency: 50 or 60 Hz

Battery Life:

120 Plus

60 hours with 1 x 350 ohm, 40 hours with 4×350 ohm load cells

Eight hour charge time

Excitation Voltage: 5 VDC, 4×350 ohm or 8×700 ohm load cells

Analog Signal Input Range:

-0.6 mV/V to 3.0 mV/V

Analog Signal Sensitivity:

0.3 µV/graduation minimum, $1.5 \mu V/grad recommended$

A/D Sample Rate:

120: 3 to 30 Hz, software selectable

120 Plus: 30 Hz

Resolution:

Internal: 1,000,000 counts Display: 10,000

System Linearity:

Within 0.01% of full scale

(Optional) Digital I/O:

120 Plus: Requires option card

24 volt source Three digital inputs

Two digital outputs

Circuit Protection: RFI, EMI, ESD protected

Load Cell Connection: Cord grip entry

Detachable plug (optional)

Communication Port:

EDP port: Full duplex RS-232

Printer port: Output-only RS-232 or active 20 mA current loop Both ports: 9600, 4800, 2400, 1200, 600, 300bps;

Seven or eight data bits; even, odd or no parity

Annunciators:

120/120 Plus: Center of zero, standstill, gross, net, lb, kg, oz, g **120 Plus:** Battery, setpoint 1 and 2, Hold

Displau:

120: 0.8 in (20 mm), six-digit red light emitting diode (LED) display, seven-segment digits 120 Plus: 0.8 in (20 mm) six-digit LCD with backlight, seven-segment digits

Keys/Buttons:

120: Five-key flat membrane panel, tactile feel **120 Plus:** Zero, tare, preset tare, hold, gross/net, units, numeric 0-9, clear, enter/print

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Ratina/Material:

Enclosure: Heavy gauge ABS

Weight:

2.6 lb (1.2 kg)

Warranty:

One-year limited

Approvals:

NTEP CC 03-059, Class III/IIIL 10,000 d Measurement Canada AM-5517 EU Test Certificate TC7626 CE Marked

Part Number/Price

Part #	Description	Est. Weight	Price
120			
131923	Desktop 115 VAC/230 VAC	3 lb	\$525.00
120 Plus			
103632	Desktop 115/230 VAC	3 lb	\$670.00
107619	Desktop 115/230 VAC with digital I/O option	3 lb	\$720.00

NOTE: Both plugs included with power supply

US Plug

© o Euro Plug

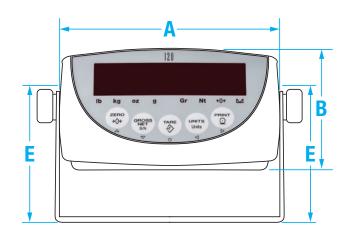
Options/Accessories

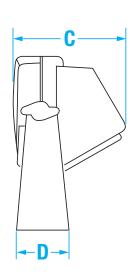
Part #	Description	Price
93205	Load cell connector with 6 m length pigtail (requires 103507)	\$60.00
82505	Six-pin socket external load cell connector (requires 103507)	\$16.00
103507	External load cell plug replaces cord grip (requires 82505 or cable 93205)	\$42.00
107620	Digital I/O card for 120 Plus	\$95.00
105670	15-Pin connector for 120 Plus	\$14.00
106705	15-Pin Interface cable for 120 Plus, 2 m length	\$39.00
76699	Additional operating manual for 120	\$39.00
105914	Additional operating manual for 120 Plus	\$37.00
Primary Comp	onent Parts for 120	·
131924	Board assembly for use with internal load cell connector	\$315.00
78610	Overlay membrane switch	\$70.00
131925	Power supply, 115 VAC/230 VAC	\$47.00
64794	Cable, null modem DB9F to DB9M	\$69.00
Primary Comp	onent Parts for 120 Plus	
103634	CPU/Display board assembly	\$430.00
103635	Overlay membrane switch	\$70.00
103636	Power supply, 115 VAC/230 VAC	\$47.00
103637	Rechargeable battery	\$100.00

Revolution can be downloaded for free at www.ricelake.com To have your option factory installed, please specify when placing your order.

Dimensions

120/120 Plus				
Α	7.32 in (186 mm)	D	1.65 in (42 mm)	
В	6.06 in (154 mm)	E	4.76 in (121 mm)	
С	3.74 in (95 mm)			





IQ Plus® 210

Digital Weight Indicator



Approvals





Standard Features

- LED display
- Piezo switch technology with stainless steel buttons (zero and units)
- NEMA Type 4X/IP66 stainless steel enclosure
- Displays units in decimals lb, kg, oz, lb/ oz and grams
- 1 full duplex RS-232 port
- 2 digital inputs for remote zero, print and units
- Gore-Tex® breather vent
- Configurable with Revolution® software

Part Number/Price

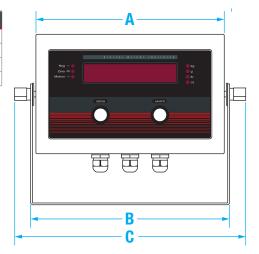
Part #	Description	Est. Weight	Price
65137	IQ Plus 210, 115 VAC	10 lb	\$775.00
65138	IQ Plus 210, 230 VAC	10 lb	\$775.00

Options/Accessories

Part #	Description	Price
64640	Additional operating manual	\$31.00

Dimensions

IQ Plus 210			
Α	9.50 in (241 mm)	Е	6.00 in (152 mm)
В	10.03 in (254 mm)	F	8.58 in (217 mm)
С	11.67 in (296 mm)	G	3.75 in (95 mm)
D	2.69 in (68 mm)		



Specifications

Power:

Line voltages: 115 VAC or 230 VAC Frequency: 50/60 Hz

Excitation Voltage:

10 VDC 4×350 ohm load cells

Analog Signal Input Range:

0.6 mV/V to 4.5 mV/V

Analog Signal Sensitivity:

0.3 μV/graduation minimum, $1.5 \mu V/grad recommended$

A/D Sample Rate:

15 Hz

Resolution:

Display: 10,000 counts

Digital I/0:

Two inputs, TTL or switch closure, active-low

Communication Port:

Full duplex RS-232, 9600, 4800, 2400, 1200bps; Seven or eight data bits, even, off, or no parity

Annunciators:

lb, kg, oz, g, negative, motion, center of zero

Display:

Six-digit light emitting diode (LED) display Seven-segment, 0.8 in (20 mm) digits

Dimensions:

Enclosure 9.5 × 6.0 × 2.75 in (241 × 152 × 70 mm)

Temperature:

Operating: 14 °F to 104 °F (-10 °C to 40 °C) Storage: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:

NEMA Type 4X/IP66, stainless steel

Weight:

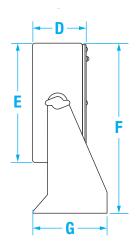
10 lb (4.5 kg)

Warranty:

Two-year limited

Approvals:

NTEP CC 00-045, Class III/IIL 10,000 d Measurement Canada AM-5374 cULus Listed





Approvals









Dimensions

CW-	CW-90		
Α	9.50 in (241 mm)		
В	10.02 in (255 mm)		
С	11.24 in (285 mm)		
D	3.12 in (79 mm)		
Е	6.00 in (152 mm)		
F	8.57 in (218 mm)		
G	3.75 in (95 mm)		
Н	4.00 in (102 mm)		

Standard Features

- Gore-Tex® breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz
- · LED display
- Two full duplex serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or fiber-optic
- Four configurable digital I/O
- Reflash memory to upgrade firmware
- · Auto print capability
- Battery backed up time and date
- Accumulator
- · Membrane keypad consisting of zero, units, print, tare, over, under, ID, target, 0 to 9, clear, decimal, enter, menu, power

Specifications

Power:

Line voltages: 115 to 230 VAC Frequency: 50/60 Hz

Power Consumption:

1.5 A at 115 VAC (8 W) 0.75 A at 230 VAC (8 W)

Excitation Voltage:

+5 VDC 8 \times 350 ohm or 16 \times 700 ohm load cells

Analog Signal Input Range:

-0.5 mV/V to 4.5 mV/V

Analog Signal Sensitivity:

0.3 uV/graduation minimum 1.5 uV/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz software selectable

Resolution:

Display: 100,000 counts

System Linearity: ± 0.01% full scale

Digital I/O:

Four channels on CPU board

Circuit Protection:

RFI, EMI, ESD protection

Annunciators:

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

Display:

Large 0.8 in 14-segment, six-digit high-intensity red LED display

Keys/Buttons:

Membrane keypad, 23 keys with international symbols

Temperature:

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

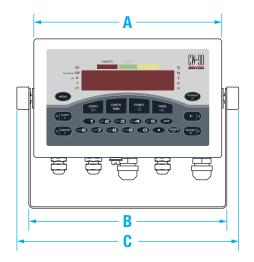
Rating/Material: IP66, 304 stainless steel

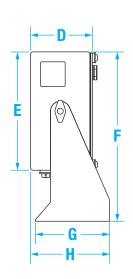
Warranty:

Two-year limited

Approvals:

NTEP CC 08-092, Class III/IIIL 10,000 d Measurement Canada AM-5710 OIML R76/2006-GBI-10.02 TC11569 CE Marked cULus Listed





Part Number/Price

Part #	Description	Est. Weight	Price
105970†	CW-90, 115 VAC	7 lb	\$995.00
105971 [#]	CW-90, 230 VAC, CE marked/OIML approved	7 lb	\$995.00
118888†	CW-90, 230 VAC	7 lb	\$995.00
171247 ^{†††}	CW-90, 230 VAC	7 lb	\$995.00

† US plug (NA) - Type B

tt Euro Plug - Type E



ttt IEC Type I plug

Options/Accessories

Part #	Description	Price
200578	Ethernet TCP/IP, 10 ft cable included	\$440.00
206272	RS-232/Wi-Fi interface 802.11 A/B	\$610.00
95357	USB cable, Type A to mini-B, 1 m	\$11.00
171968	Firmware download cable	\$39.00
96736	Fiber optic board	\$250.00
78026	Fiber optic, duplex cable 100 ft	\$185.00
80892	Fiber optic cutter	\$15.00
117358	WeighVault (requires part number 200578 or 206272)	\$265.00

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



Approvals











Dimensions

CW-	CW-90X		
Α	9.50 in (241 mm)		
В	10.02 in (255 mm)		
С	11.24 in (285 mm)		
D	3.12 in (79 mm)		
E	6.00 in (152 mm)		
F	8.57 in (218 mm)		
G	3.75 in (95 mm)		
Н	4.00 in (102 mm)		

Standard Features

- · Gore-Tex® breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz
- LED displau
- · 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
- · Battery backed up time and date
- Accumulator
- Piezo keypad consisting of zero, units, print, tare, over, under, ID, target, enter, menu, power

Specifications

Power:

Line voltages: 115 to 230 VAC Frequency: 50/60 Hz

Power Consumption:

1.5 A at 115 VAC (8 W) 0.75 A at 230 VAC (8 W)

Excitation Voltage:

+5 VDC 8 \times 350 ohm or 16 \times 700 ohm load cells

Analog Signal Input Range:

-0.5 mV/V to 4.5 mV/V

Analog Signal Sensitivity:

0.3 uV/graduation minimum

1.5 uV/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz software selectable

Resolution:

Display: 100,000 counts

System Linearity:

± 0.01% full scale

Digital I/O:

Four channels on CPU board

Circuit Protection:

RFI, EMI, ESD protection

Annunciators:

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

Display:

Large 0.8 in 14-segment, six-digit high-intensity red LED display

Keys/Buttons:

Piezo keypad, 11 keys with international symbols

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

Rating/Material: IP69K, 304 stainless steel

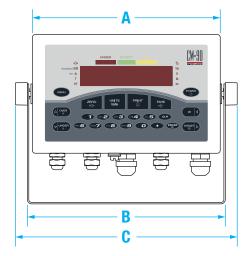
Warranty:

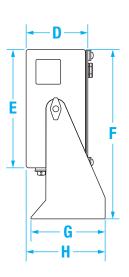
Three-year limited

Approvals:

cULus Listed

NTEP CC 08-092, Class III/IIIL 10,000 d Measurement Canada AM-5710 OIML R76/2006-GBI-10.02 TC11569 CE Marked







Part Number/Price

Part #	Description	Est. Weight	Price
105972 [†]	CW-90X, 115 VAC	7 lb	\$1,045.00
105973 ^{††}	CW-90X, 230 VAC, CE marked/OIML approved	7 lb	\$1,045.00
118889 [†]	CW-90X, 230 VAC	7 lb	\$1,045.00
171248 ^{†††}	CW-90X, 230 VAC	7 lb	\$1,045.00

† US plug (NA) - Type B

tt Euro Plug - Type E



ttt IEC Type I plug

Options/Accessories

Part #	Description	Price
200578	Ethernet TCP/IP, 10 ft cable included	\$440.00
206272	RS-232/Wi-Fi interface 802.11 A/B	\$610.00
95357	USB cable, Type A to mini-B, 1 m	\$11.00
171968	Firmware download cable	\$39.00
96736	Fiber optic board	\$250.00
78026	Fiber optic, duplex cable 100 ft	\$185.00
80892	Fiber optic cutter	\$15.00
117358	WeighVault™ (requires part number 200578 or 206272)	\$265.00

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

380 Synergy Series

Digital Weight Indicator



Approvals



Measurement Canada





Standard Features

- · LCD display
- · Alkaline battery powered
- Push-button and keyed tare
- · Two communication ports
- · Five tactile buttons
- Configurable print formats

Options

- · Time/date

· External power supply

Part Number/Price

Part #	Description	Est. Weight	Price
202711	380 Universal battery powered	6.25 lb (3 kg)	\$705.00

Options/Accessories

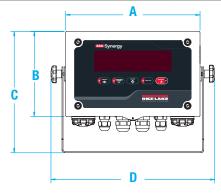
Part #	Description	Price
206433 [†]	External AC adapter	\$60.00
204258	Real time clock module	\$127.00
223864	Knob, stainless steel M6 x 1.0 inch	\$15.00

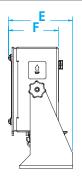
To have your option factory installed, please specify when placing your order.

† US plug (NA) - Type A

Dimensions

380	380 Synergy Series				
Α	9.50 in (241 mm)	D	11.58 in (294 mm)		
В	6.00 in (152 mm)	E	4.53 in (115 mm)		
С	8.57 in (218 mm)	F	3.53 in (90 mm)		





Specifications

Power:

Batteries: 4 alkaline C-cell (not included) Optional: 115/230 VAC to 12 VDC adapter

Power Consumption:

6 W max with optional external power adapter

Battery Life:

100 hours with 1×350 ohm load cell, no backlight 45 hours with 4×350 ohm load cells, low backlight 20 hours with 8×350 ohm load cells, low backlight

Excitation Voltage:

5 VDC, 8×350 ohm or 16×700 ohm load cells

Analog Signal Input Range:

-0.3 mV to +30 mV

Common mode voltage 0.7 V to 3.3 V

Analog Signal Sensitivity: $1 \mu V/graduation$ recommended

A/D Sample Rate:

5, 6, 10, 12, 20, 25, 40, 50, 80, 100Hz, software selectable

Resolution:

Internal: 8,000,000 counts Display: 100,000

System Linearity:

Within 0.01% full scale

Communication Ports:

One full-duplex RS-232 One USB 2.0

Annunciators:

g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Display:

Six 1 in (25 mm) tall, LCD digits

Keys/Buttons:

5 tactile buttons

Dimensions: $(L \times W \times H)$

11.58 × 4.53 × 8.57 in (294 × 115 × 218 mm)

Temperature:

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

Rating/Material:

IP66, 304 stainless steel Weight:

6.25 lb (3 kg)

Warranty:

Two-year limited **EMC Immunity:**

10 V/m

Approvals:

NTEP 21-051, Class III/IIIL, 10,000 d Measurement Canada AM-6184 CE Marked

cULus Listed

380X Synergy Series Washdown Digital Weight Indicator



Approvals



Measurement Canada Approved







Standard Features

LCD display

- Battery powered, internal charger
- Push button and keyed tare
- Two communication ports
- · Five-tactile buttons
- · Configurable print formats

Options

· Time/date

Part Number/Price

Part #	Description	Est. Weight	Price
214337	380X Universal battery powered	6.25 lb (3 kg)	\$800.00

Options/Accessories

Part #	Description	Price
204258	Real time clock module	\$127.00
223864	Knob, stainless steel M6 x 1.0 inch	\$15.00

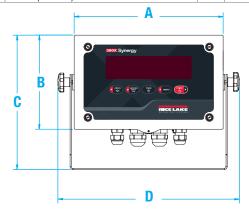
To have your option factory installed, please specify when placing your order.

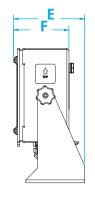


† US plug (NA) - Type B

Dimensions

380X Synergy Series				
Α	9.50 in (241 mm)	D	11.58 in (294 mm)	
В	6.00 in (152 mm)	E	4.53 in (115 mm)	
С	8.57 in (218 mm)	F	3.53 in (90 mm)	





Specifications

Power:

Battery: Lithium ion Charger: 120 VAC internal

Power Consumption:

25 W max with internal power

Battery Life:

45 hours, one 350 ohm load cell, no backlight 15 hours, four 350 ohm load cells, no backlight 10 hours, eight 350 ohm load cells, backlight

Excitation Voltage:

5 VDC, 8×350 ohm or 16×700 ohm load cells

Analog Signal Input Range:

-0.3 mV to +30 mV

Common mode voltage 0.7 V to 3.3 V

Analog Signal Sensitivity:

 $1 \,\mu V/graduation$ recommended

A/D Sample Rate:

5, 6, 10, 12, 20, 25, 40, 50, 80, 100 Hz, software selectable

Resolution:

Internal: 8,000,000 counts Display: 100,000

System Linearity:

Within 0.01% full scale

Communication Ports:

One full-duplex RS-232 (three-wire) One USB 2.0

Annunciators:

g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Display:

Six 1 in (25 mm) tall, LCD digits

Keys/Buttons:

Five-tactile buttons

Dimensions: $(L \times W \times H)$

11.58 × 4.53 × 8.57 in (294 × 115 × 218 mm)

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:

IP69K, 304 Stainless steel

Weight:

6.25 lb (3 kg)

Warranty:

One-year limited on battery Two-year limited on indicator and parts

EMC Immunity:

10 V/m

Approvals:

NTEP 21-051

Measurement Canada AM-6184

cULus

CE UKCA

IEC



Approvals



Approved

Standard Features

Options

- · LCD display
- · Battery powered
- · Push-button and keyed tare
- Two communication ports
- Five tactile buttons
- Configurable print formats
- · ABS enclosure

Part Number/Price

Part #	Description	Price
215695	381 Universal, AA battery powered	\$395.00
215696	381 Universal, Nickel metal hydride (NiNH) battery powered	\$495.00

· Time/date

Options/Accessories

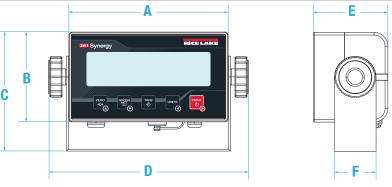
Part #	Description	Price
215273	RS-232 DB9 cable, 1.5 m DB9 female RJ11 connector, compatible with 381 model	\$95.00
204258	Real time clock module	\$127.00
216647	3 mm t-handle hex key	\$6.00
223864	Knob, stainless steel M6 x 1.0 inch	\$15.00

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

† US plug (NA) - Type B

Dimensions

381 Synergy Series				
Α	6.77 in (172 mm)	D	8.50 in (216 mm)	
В	3.82 in (97 mm)	E	3.17 in (81 mm)	
С	5.06 in (129 mm)	F	1.77 in (45 mm)	



Specifications

Battery: AA or Nickel Metal Hydride (NiMH) 381-2D-AA Adapter: 115/230 VAC to 12 VDC 381-2D-NiMH Charger: 115/230 VAC

Power Consumption:

AA: input 0.8 A (6 W while using AC adapter) NiMH: input of 0.35 A

Battery Life:

AA: 40 hours with 1×350 ohm load cell NiMH: 80 hours with 1 × 350 ohm load cell

Excitation Voltage:

5 VDC, 8×350 ohm or 16×700 ohm load cells

Analog Signal Input Range:

-0.3 mV to +30 mV

common mode voltage 0.7 V to 3.3 V

Analog Signal Sensitivity:

1 μV/graduation recommended

A/D Sample Rate:

5, 6, 10, 12, 20, 25, 40, 50, 80, 100Hz, software selectable

Resolution:

Internal: 8,000,000 counts Display: 100,000

System Linearity:

Within 0.01% full scale

Communication Ports:

One full-duplex RS-232 One USB 2.0

Annunciators:

g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Display:

Six 1 in (25 mm) tall, LCD digits

Keys/Buttons:

5 tactile buttons

Dimensions:

 $(L \times W \times H)$ 8.50 × 3.17 × 5.06 in (215.8 × 80.5 × 128.5 mm)

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:

AA Battery: IP54, ABS NiMH Battery: IP66, ABS

Warranty:

Two-year limited

EMC Immunity:

10 V/m

Approvals:

NTEP 21-051 Class III/IIIL, 10,000 d Measurement Canada AM-6184

480/482 Legend® Series

Digital Weight Indicator



Approvals









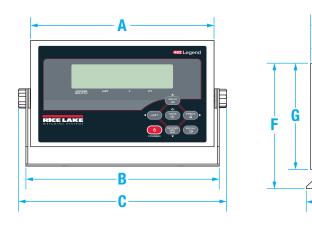


Standard Features

- LED display (480)
- LCD backlit display (482)
- Time and date, battery backed
- · Local/remote operation
- Numeric keypad (480 Plus/482 Plus)
- Keyed entries for setpoint values (480 Plus/482 Plus)
- Two independent serial ports
- 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

Dimensions

48	480/482 Legend Series					
Α	9.50 in (241 mm)	D	3.65 in (92 mm)	G	6.00 in (152 mm)	
В	10.00 in (254 mm)	Е	2.75 in (70 mm)	Н	3.75 in (95 mm)	
С	11.00 in (279 mm)	F	7.00 in (178 mm)			



Specifications

Power:

Line voltages: 100 to 240 VAC Frequency: 50/60 Hz

Power Consumption:

Excitation Voltage:

5 VDC, 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:

±7 mV/V

Analog Signal Sensitivity:

0.1 μV/graduation minimum, 0. 5 μV/graduation recommended

A/D Sample Rate:

5, 10, 20, 40 Hz, software selectable

Resolution:

Internal: 523,000 counts Display: 100,000

System Linearity:

Within 0.01% of full scale

Digital I/O:

Optional 2 or 4 inputs 4 or 8 dry-contact relays

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 inputs Primary keys, pseudo functions, batching functions (4) 30 VDC, 2 amp dry-contract relays

Annunciators:

Gross, net, center of zero, standstill, lb, kg, tare, preset tare

Display:

480/480 Plus: LED display

0.8 in (20 mm), six-digit, seven-segment

482/482 Plus: LCD backlit display,

transmissive/transflective

0.8 in (20 mm), six-digit, seven-segment

Keus/Buttons:

Flat membrane panel, embossed keys, tactile feel

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:

NEMA Tupe 4X/IP66 Stainless steel

Weight:

6.4 lb (2.9 kg)

Warranty:

Two-year limited

EMC Immunity:

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

Approvals:

NTEP 12-123, Class III/IIIL, 10 ,000 d Measurement Canada AM-5892C OIML R76/2006-NL1-15.24 EU Test Certificate TC8322 CE Marked cULus HΚCΔ

480/482 Legend® Series Digital Weight Indicator

Part Number/Price

Part #	Description	Est. Weight	Price
480 Indicate	or 115 VAC [†]		
126564 [†]	480 LED	8 lb	\$1,075.00
130338 [†]	480 LED with analog output	8 lb	\$1,500.00
480 Indicato	r 90 to 264 VAC #		
126565 ^{††}	480 LED	8 lb	\$1,075.00
130339 ##	480 LED with analog output	8 lb	\$1,450.00
480 Plus Ind	icator 115 VAC [†]		
164588 [†]	480 Plus LED	8 lb	\$1,075.00
164589 [†]	480 Plus LED with analog output	8 lb	\$1,500.00
164590 †	480 Plus LED with relay output	8 lb	\$1,300.00
480 Plus Ind	icator 90 to 264 VAC ⁺⁺		
164591 [#]	480 Plus LED	8 lb	\$1,075.00
164592 ^{††}	480 Plus LED with analog output	8 lb	\$1,500.00
164593 <i>††</i>	480 Plus LED with relay output	8 lb	\$1,250.00
482 Indicato	r 115 VAC [†]		
164581 [†]	482 LCD	8 lb	\$1,225.00
482 Indicato	r 90 to 264 VAC ††		
164672 <i>††</i>	482 LCD	8 lb	\$1,075.00
482 Plus Ind	icator 115 VAC [†]		
164584 [†]	482 Plus LCD	8 lb	\$1,225.00
482 Plus Ind	icator 90 to 264 VAC #		
164673 ##	482 Plus LCD	8 lb	\$1,075.00

Options/Accessories

Part #	Description	Price
131340	Mounting bracket for option boards	\$31.00
131341	Analog output, 0-10 VDC, 4-20 mA (requires 131340)	\$420.00
131342	Relay board, two digital inputs, four dry contact outputs (requires 131340)	\$290.00
165379	Flash update cable	\$82.00
151100	A/D sealing kit, used with audit trail tracking	\$40.00
151099	Panel mount bezel (not NEMA Type rated)	\$215.00
83564	Clear protective overlay (package of five)	\$82.00
223864	Knob, stainless steel M6 x 1.0 in	\$15.00
119201	Installation manual (480 indicator)	\$31.00
165124	Installation manual (482 indicator)	\$29.00
Primary Re	placement Components	
131345	Overlay, 480 six-key, red window	\$78.00
159612	Overlay, 480 Plus with numeric keys, red window	\$78.00
131346	Display board, LED	\$189.00
161048	Overlay, 482 six-key, green window	\$78.00
161049	Overlay, 482 Plus with numeric keys, green window	\$78.00
153776	Display board, LCD	\$185.00
131316	Power supply, 85-265 VAC	\$68.00
131318	CPU board	\$310.00
131319	A/D board	\$245.00

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

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



† US plug (NA) - Type B



tt Euro Plug - Type E

680 Synergy SeriesDigital Weight Indicator



Approvals











Standard Features

- LED displau
- · Battery backed time and date
- · Full numeric keypad
- · Multiple communication ports
- · Eight setpoint, 22 configurable types
- Numeric keyed entry for tare and setpoint entry
- Formattable tickets
- Four onboard configurable digital I/O points, TTL logic
- · Local/remote

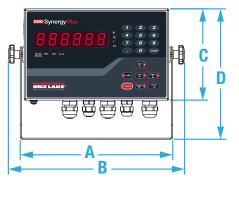
Options

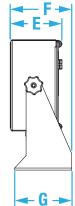
- Analog output: 16-bit resolution, 0-10 VDC, 0-20 mA, 4-20 mA
- · RJ45 Ethernet connector

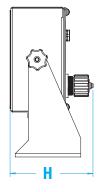
Note: IP Rating is IP66 with RJ45 option. Rating is valid only when the cover is in place, not in use.

Dimensions

680 Synergy Series				
Α	10.02 in (255 mm)	Е	3.40 in (86 mm)	
В	11.58 in (294 mm)	F	4.05 in (103 mm)	
С	6.00 in (152 mm)	G	3.80 in (97 mm)	
D	8.57 in (218 mm)	Н	4.74 in (120 mm)	







With External RJ45 Connector

Specifications

Power:

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

Power Consumption:

 $2 \text{ W (AC)} 1 \times 350 \text{ ohm load cell, } 15 \text{ W max}$

Excitation Voltage:

10 VDC (± 5 VDC), 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:

-5 mV to +70 mV

Analog Signal Sensitivity:

1 μV/graduation recommended

A/D Sample Rate:

6.25 to 120 Hz, software selectable

Resolution:

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

System Linearity:

Within 0.01% full scale

Digital I/O:

Four configurable I/O - 5 V logic

(Optional) Analog Output:

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

Communication Ports:

Two full-duplex RS-232 RS-485/422 (five-wire) Micro USB (device) Ethernet TCP/IP (10/100)

Annunciators:

Eight LED annunciators

Display:

Seven 0.8 in tall, seven-segment digits

Keys/Buttons:

Flat membrane panel, tactile feel (18 buttons plus ON/OFF)

Dimensions:

 $(L \times W \times H)$ 11.58 × 4.05 × 8.57 in (294 × 103 × 218 mm)

Temperature:

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

Rating/Material:

IP69K (IP66 with RJ45) AISI 304 stainless Steel

Weight:

6.25 lb (3 kg)

Warranty:

Two-year limited

EMC Immunity:

10 V/m

Approvals:

NTEP 19-021, Class III/IIIL, 10,000 d Measurement Canada AM-6121C OIML R76/2006-A-NL1-19.56 EU Test Certificate TC11562 UKCA **CE Marked** cULus Listed NMI

680 Synergy Series Digital Weight Indicator

Part Number/Price

Part #	Description	Est. Weight	Price
115 to 230 VAC			
193152 [†]	680 Plus indicator, LED display, US power cord	7 lb	\$1,025.00
193153#	680 Plus indicator, LED display, EU power cord	7 lb	\$1,025.00
196326†††	680 Plus indicator, LED display, UK power cord	7 lb	\$1,025.00
196327###	680 Plus indicator, LED display, AUS power cord	7 lb	\$1,025.00
9 to 36 VDC			
193154*	680 Plus indicator, LED display	7 lb	\$1,140.00
With Analog Outpu	ıt Card		
195176 [†]	680 Plus indicator, LED display, 115-230 VAC with analog output card, US power cord	7 lb	\$1,350.00
195177 [#]	680 Plus indicator, LED display, 115-230 VAC with analog output card, EU power cord	7 lb	\$1,350.00
196539†††	680 Plus indicator, LED display, 115-230 VAC with analog output card, UK power cord	7 lb	\$1,350.00
196538###	680 Plus indicator, LED display, 115-230 VAC with analog output card, AUS power cord	7 lb	\$1,350.00
With External RJ45	5 Connector**		
200183 [†]	680 Plus Indicator, LED display, 115-230 VAC with RJ45, US power cord	7 lb	\$1,175.00
200184#	680 Plus Indicator, LED display, 115-230 VAC with RJ45, EU power cord	7 lb	\$1,175.00
200185##	680 Plus Indicator, LED display, 115-230 VAC with RJ45, UK power cord	7 lb	\$1,175.00
200186###	680 Plus Indicator, LED display, 115-230 VAC with RJ45, AUS power cord	7 lb	\$1,175.00

Options/Accessories

Part #	Description	Price
195084	Analog output option card	\$360.00
151099	Panel mount option, gasketed non-NEMA seal	\$215.00
223864	Knob, stainless steel M6 x 1.0 in	\$15.00
195684	CPU board	\$505.00
194477	Parts kit	\$33.50

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



† US plug (NA) - Type B



tt Euro Plug - Type E



ttt BS1363 (UK) - Type G



tttt AS 3112 (Australian) - Type I

^{*}Not UL approved **IP rating is IP66 with RJ45 opton

682 Synergy Series

Digital Weight Indicator



Approvals





OIML





Standard Features

- Graphical, LCD color display with configurable softkeys
- Numeric, tactile keypad for scale operations, numeric entry and navigation
- · Multi-language operation and text entry
- · Formattable tickets
- · Battery backed time and date
- · Multiple communication ports
- Eight setpoints, 22 configurable types
- Fieldbus communication using Rice Lake's SCT-2200 modules and RS-485 port
- Built-in web server for remote access, systems integration and data monitoring
- · Built-in Truck In/Out application
- Four onboard configurable digital I/O points, TTL logic
- · Local/remote
- · Multi-range/interval

Options

- Analog output: 16-bit resolution, 0-10 VDC, 0-20 mA, 4-20 mA
- · Relay card
- · Dual serial card
- · RJ45 Ethernet connector

Note: IP Rating is IP66 with RJ45 option. Rating is valid only when the cover is in place, not in use.

Specifications

Power:

Line voltage: 100 to 240 VAC, 50/60 Hz Optional: 9 to 36 VDC

Power Consumption:

3.2 W (AC) 1×350 ohm load cell, 15 W max; 4 W 4 × 350 ohm load cells or 8×700 ohm load cells

Excitation Voltage:

10 VDC (± 5 VDC), 8 × 350 ohm or 16×700 ohm load cells

Analog Signal Input Range:

-5 mV to +70 mV

Analog Signal Sensitivity:

0.3 µV/graduation minimum $1\,\mu\text{V/graduation}$ recommended

A/D Sample Rate:

6.25 to 120 Hz, software selectable

Resolution:

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

System Linearity:

Within 0.01% full scale

Digital I/O:

Four configurable I/O, 5 V logic

(Optional) Analog Output:

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

(Optional) Relay Board:

4 normally open dry contact relays and can switch 20-250 VAC @ 3 A or 30 VDC @ 3 A. Use of external fusing to limit current is recommended. Relay COM-NO are transient protected to 400 V @ 600 W

Communication Ports:

Two full-duplex RS-232 RS-485/422 (two-wire or four-wire) Micro USB (device) Ethernet TCP/IP (10/100) Wi-Fi

Bluetooth®

Annunciators: Zero, Gross/Net, Tare, Wi-Fi, Bluetooth®

Display:

Five-inch LCD, 800 × 480 pixel, 500 NIT

Keys/Buttons:

Flat membrane panel, tactile feel 18 buttons plus 5 softkeys and power

Dimensions:

 $(L \times W \times H)$ 10.0 x 4.0 x 8.6 in (254 x 102 x 218 mm)

Temperature:

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

Ratina/Material:

IP69K (IP66 with RJ45 option) AISI 304 Stainless Steel

Weight:

6.25 lb (2.84 kg)

Warranty:

Two-year limited

Approvals:

NMI

NTEP CC 19-021, Class III/IIIL, 10,000 d Measurement Canada AM-6121C OIML R76 2006 A NL1 19.56R3 EU Test Certificate TC11562 CE Marked UKCA cULus

Part Number/Price

Part #	Description	Est. Weight	Price		
115-230 VAC					
193155 [†]	682 Plus indicator, LCD display, US power cord	7 lb	\$1,175.00		
193156††	682 Plus indicator, LCD display, EU power cord	7 lb	\$1,175.00		
207348†††	682 Plus indicator, LCD display, UK power cord	7 lb	\$1,175.00		
207349****	682 Plus indicator, LCD display, AU power cord	7 lb	\$1,175.00		
9-36 VDC					
193157	682 Plus indicator, LCD display	7 lb	\$1,300.00		
With External R.	With External RJ45 Connector*				
207354 [†]	682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, US power cord	7 lb	\$1,350.00		
207355 ††	682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, EU power cord	7 lb	\$1,350.00		
207356†††	682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, UK power cord	7 lb	\$1,350.00		
207357###	682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, AU power cord	7 lb	\$1,350.00		

*IP rating is IP66 with RJ45 option



† US plug (NA) - Type B



tt Euro Plug - Type E



††† BS1363 (UK) - Type G



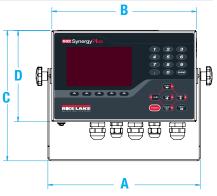
tttt AS 3112 (Australian) - Type I

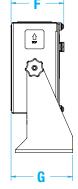
Options/Accessories

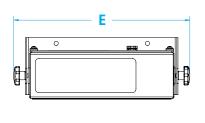
Options/Accessories				
Description	Price			
Analog output	\$360.00			
Relay board	\$360.00			
Serial output	\$360.00			
Panel Mount	\$215.00			
Replacement CPU	\$480.00			
Knob, stainless steel M6 x 1.0 inch	\$15.00			
Parts kit	\$33.50			
Fieldbus, SCT-2200, Profinet module	\$625.00			
Fieldbus, SCT-2200, Ethernet TCP/IP and Wi-Fi	\$620.00			
Fieldbus, SCT-2200, Profibus module	\$425.00			
Fieldbus, SCT-2200, EtherNet/IP module	\$625.00			
Fieldbus, SCT-2200, DeviceNet module	\$625.00			
Fieldbus, SCT-2200, EtherCAT module	\$620.00			
Fieldbus, SCT-2200, CANopen module	\$620.00			
Fieldbus, SCT-2200, Modbus TCP module	\$620.00			
Cable with RJ45 plugs, 6 in length	\$15.00			
Fieldbus, SCT-2200, Profibus module	\$425.00			
	Description Analog output Relay board Serial output Panel Mount Replacement CPU Knob, stainless steel M6 x 1.0 inch Parts kit Fieldbus, SCT-2200, Profinet module Fieldbus, SCT-2200, Ethernet TCP/IP and Wi-Fi Fieldbus, SCT-2200, Profibus module Fieldbus, SCT-2200, EtherNet/IP module Fieldbus, SCT-2200, EtherNet/IP module Fieldbus, SCT-2200, EtherCAT module Fieldbus, SCT-2200, CANopen module Fieldbus, SCT-2200, Modbus TCP module Cable with RJ45 plugs, 6 in length			

Dimensions

68	682 Synergy Series				
Α	10.00 in (254 mm)	Е	11.60 in (295 mm)		
В	9.50 in (241 mm)	F	3.50 in (89 mm)		
С	8.60 in (218 mm)	G	4.00 in (102 mm)		
D	6.00 in (152 mm)				







680HE Synergy Series

Hostile Environment Digital Weight Indicator











Part Number/Price

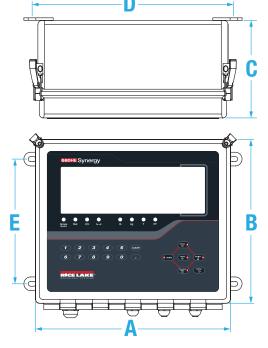
Part #	Description	Est. Weight	Price
197177	680HE Plus indicator, 115 to 230 VAC	6.25 lb (3 kg)	\$2,170.00
199574	680HE Plus indicator, 115 to 230 VAC with external RJ45	6.25 lb (3 kg)	\$2,300.00

Options/Accessories

Part #	Description	Price
195084	Analog output option card	\$360.00

Dimensions

680HE Synergy Series				
Α	12.50 in (318 mm)	D	13.00 in (330 mm)	
В	10.50 in (267 mm)	E	8.00 in (203 mm)	
С	6.30 in (160 mm)			



Standard Features

- LED display
- · Battery backed time and date
- · Full numeric keypad
- Multiple communication ports
- Eight setpoints, 22 configurable types
- Numeric keyed entry for tare and setpoint entry
- Formattable tickets
- Four onboard configurable digital I/O points, TTL logic
- Local/remote

Options

- · Ethernet bulkhead connector
- Analog output: 16-bit resolutions, 0 10 VDC, 0 - 20 mA, 4 - 20 mA

Specifications

Line voltages: 100 to 240 VAC Frequency: 50/60 Hz

Power Consumption:

12 W (AC) with one 350 ohm load cell, 30 W max

Excitation Voltage:

10 VDC (± 5 VDC), 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:

-0.5 mV/V to +7 mV/V

Analog Signal Sensitivity:

1 uV/graduation recommended

A/D Sample Rate:

6.25 to 120 Hz, software selectable

Resolution:

Internal: 8,000,000 counts Display: 100,000

System Linearity:

Within 0.01% full scale

Digital I/O:

Four configurable I/O-5 V logic

Communication Ports:

Two full-duplex RS-232 RS-485/422 (five-wire) Micro USB (device) Ethernet TCP/IP (10/100)

Annunciators:

Eight LED annunciators

Display:

Six 2.5 in tall, seven-segment digits

Keys/Buttons:

Flat membrane panel, tactile feel (18 buttons)

Dimensions:

 $(L \times W \times H)$ 12.50 × 6.30 × 10.50 in (318 × 160 × 267 mm)

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Ratina/Material:

IP66, FRP

Weight:

7.9 lb (3.5 kg)

Warranty:

Two-year limited

EMC Immunity:

10 V/m

Approvals:

NTEP 19-021. Class III/IIIL. 10.000 d Measurement Canada AM-6121C CE Marked cULus Listed



Approvals









Standard Features

- · LCD display
- · Four softkeus
- Truck In/Out, 1,000-ID memory (PCE software version)
- 32 setpoints, 26 configurable types (Batch software version)
- Process control engine ProAction PCE define conditions and actions
- Data storage onboard, ProAction DBE user-defined
- Eight digital I/O (expandable)
- One option slot for pluggable options
- 20 auxiliary print formats
- · Time and date
- Audit trail tracking and alibi storage
- Peak hold
- · Rate of change
- Accumulator
- Multi-range/interval
- · Local/remote
- Two full duplex serial ports
- · Header for fiber-optic, Ethernet or USB





Panel Mount

CPU Enclosure

Specifications

Power:

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

Power Consumption:

25 W

Excitation Voltage:

10 VDC (± 5 VDC), 16 × 350 ohm or 32×700 ohm load cells

Analog Signal Input Range:

-10 mV to +45 mV

Analog Signal Sensitivity:

0.3 µV/graduation minimum at 7.5 Hz 1.0 µV/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

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

System Linearity:

±0.01% full scale

Digital I/O:

Eight channels on CPU board; optional 24-channel I/O

Communication Ports:

Two ports on CPU board support up to 115,200 bps Port 2: Full duplex RS-232 with handshaking Port 4: Full duplex RS-232, simplex 20 mA Optional dual-channel serial expansion boards Channel A: RS-232, RS-485, 20 mA Channel B: RS-232, 20 mA

Display:

240 × 64 pixel, transflective LCD Panel mount: 3.8×1.2 in (96×30 mm) Universal: 5.3×1.5 in $(133 \times 39 \text{ mm})$

Keys/Buttons:

Ten-key (panel mount) membrane panel 22-key (universal) membrane panel tactile feel

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:

NEMA Type 4X/IP66 Stainless steel

Weight:

Universal enclosure: 9.5 lb (4.3 kg) Panel Mount enclosure: 8.5 lb (3.9 kg)

Warranty:

Two-year limited

EMC Immunity:

3 V/m

Approvals:

NTEP CC 08-022. Class III/IIL 10.000 d Measurement Canada AM-5677C Class III/IIIHD 10,000d CE Marked UL/cUL Listed (universal) UL/cUL Recognized (panel mount)



Part Number/Price

Part #	Description	Est. Weight	Price
PCE Software			
101230 †	720i Universal, 115 VAC	12 lb	\$2,045.00
103459 #	720i Universal, 115 to 230 VAC, CE	12 lb	\$2,045.00
107708*	720i Universal, 12 to 24 VDC	12 lb	\$2,195.00
101229**	720i Panel Mount, 115 to 230 VAC	12 lb	\$2,045.00
119116**	720i Panel Mount, 115 to 230 VAC, CE	12 lb	\$2,045.00
107710*	720i Panel Mount, 12 to 24 VDC	12 lb	\$2,195.00
Batch Software			
115447 [†]	720i Universal, 115 VAC	12 lb	\$2,045.00
115448 ^{††}	720i Universal, 115 to 230 VAC, CE	12 lb	\$2,045.00
115449**	720i Panel Mount, 115 to 230 VAC	12 lb	\$2,045.00

*DC/DC converter installed option, not UL approved

^{**}Power cord sold separately



† US plug (NA) - Type B



tt Euro Plug - Type E

Options/Accessories

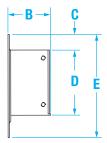
Part #	Description	Price
Option Cards		
67601	Digital I/O, 24-channel	\$325.00
67602	Analog output: selectable 0-10 V, 0-20 mA	\$395.00
67604	Serial, dual channel	\$425.00
Network Cards		
77142	Ethernet TCP/IP Port (replaces serial port 2)	\$545.00
71986	Ethernet TCP/IP module (installed in option slot)	\$455.00
206272	Wi-Fi 802.11 A/B (replaces serial port 2)	\$610.00
87803	EtherNet/IP® interface	\$895.00
68540	Profibus® DP interface	\$720.00
68541	DeviceNet™ interface	\$720.00
Hardware		
15436	Power cord for Panel Mount NEMA Type 5-15 plug	\$18.00
105382	Power cord for Panel Mount CEE 7/7 plug	\$18.00
19369	Start/stop switch box	\$475.00
83569	Clear protective overlay (package of five)	\$95.00
118975	Mount kit to convert Universal to Panel - non-NEMA rated	\$245.00
101923	Remote relay box, does not include relay	\$495.00
Manuals & Softwa	are	
103121	Installation manual	\$25.00
Primary Compone	ent Parts	
106788	CPU board assembly with PCE firmware	\$1,295.00
195388	CPU board assembly with batching firmware	\$1,295.00
101244	LCD display (Panel Mount) transflective	\$245.00
102888	LCD display (Universal) transflective	\$245.00
101239	Display board (includes display for Panel Mount)	\$595.00
102887	Display board (w/o display for Universal)	\$495.00
67613	AC power supply 100 to 240 nominal, 25 watt	\$225.00
132791	DC/DC power supply 12 to 24 VDC nominal, 25 watt	\$235.00
101256	Switch membrane for Panel Mount	\$145.00
101257	Switch membrane for Universal	\$145.00

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

Dimensions

720i Panel Mount Display							
Α	7.36 in (187 mm)	D	2.45 in (62 mm)	G	6.12 in (155 mm)		
В	1.60 in (41 mm)	Е	3.88 in (99 mm)				
С	0.59 in (15 mm)	F	0.62 in (16 mm)				
720i Panel Mount CPU Enclosure							
(1	× W × H)· 12 75 × 6 05 ×	2 '	14 in (324 × 154 × 5 mm)				

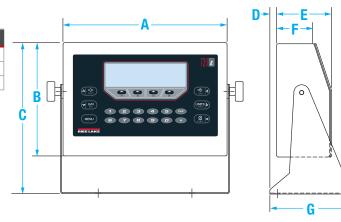






Dimensions

72	720i Universal								
Α	10.50 in (267 mm)	D	0.44 in (11 mm)	G	5.25 in (133 mm)				
В	7.25 in (184 mm)	Е	3.51 in (89 mm)						
С	9.66 in (245 mm)	F	2.31 in (59 mm)						



880/880 Plus Performance™ Series

Programmable Weight Indicator and Controller



880 Plus Universal



880 Panel Mount

Approvals



Canada









Standard Features

- · LED display
- USB device port connects directly to a PC
- Ethernet TCP/IP polled or continuous polled or continuous, server/client
- · Built-in DIN-rail clips on controller box (panel mount)
- Display and controller can be separated up to 250 ft (panel mount)
- · Hardware slot for one option card
- Operator functions through menu key for audit trail, preset tare, accumulator, time and date and setpoints
- · Audit trail tracking for configuration and calibration changes. Password protection for user and configuration changes.
- 20 setpoints with latched batch engine or unlatched outputs
- Four onboard digital I/O channels
- Programmable ticket formats up to 1,000 characters for header text, gross, net, accumulator and setpoints
- Five-point linearization calibration
- Local/remote operation
- · Multi-range or multi-interval weighing
- · Filter settings for light, medium and heavy noise

Options

- · Analog output
- Relay board
- · Fieldbus connectivity
- Dual serial output (v4.00 and newer)
- 24-channel digital I/O (v4.00 and newer)
- Truck in/out program for 100 vehicle IDs
- Adapter plate for converting 310 and 520 panel mounts
- Panel mount kit for universal enclosure

Specifications

Power:

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

Power Consumption:

AC: 15 W, DC: 20 W

Excitation Voltage:

10 VDC (\pm 5 VDC), 16 \times 350 ohm or 32 \times 700 ohm load cells

Analog Signal Input Range:

-45 mV to 45 mV

Analog Signal Sensitivity:

0.3 μV/graduation minimum at 7.5 Hz; 1.0 µV/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

Internal: 8,000,000 counts Display: 999,999

System Linearity:

± 0.01% full scale

Digital I/O:

Four I/O onboard, primaru keus, pseudo functions, batching functions

(Optional) Analog Output:

Voltage output: 0-10 VDC Load resistance: 1 k ohm minimum Current output: 0-20 mA or 4-20 mA External loop resistance: 500 W maximum

(Optional) Relay Board:

Four channel relay module, dry contact 3 A at 115 VAC, 3 A at 30 VDC

Communication Ports:

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

Annunciators:

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

Display: LED, 0.56 in (14 mm), six-digit, 14-segment with decimal or comma

Keys/Buttons:

Membrane panel, tactile feel

Dimensions:

Panel: $6.00 \times 4.95 \times 4.00$ in (152 × 126 × 102 mm) Universal: 9.87 × 4.00 × 9.38 in (248 × 102 × 235 mm)

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:

Panel display: stainless steel, NEMA Type 4X, Type 12 and IP69K Panel mount controller: Aluminum Universal: stainless steel, IP69K

Weight:

Panel: 2.5 lb (1.2 kg); Universal: 6.5 lb (2.9 kg)

Warranty:

Two-year limited

EMC Immunitu:

10 V/m

Approvals:

NTEP 13-080 Class III/IIIL, 10,000 d Measurement Canada AM-5931C OIML R76/2006-A-NL1-18.23 Class III, 10,000 d EU Test Certificate TC8463 CE Marked cULus Listed (universal) cULus Recognized (panel mount)

880/880 Plus Performance™ Series

Digital Weight Indicator and Controller

Part Number/Price

Part #	Description	Est. Weight	Price
880 Panel Mount AC	Powered*		
177976	115 to 230 VAC, indicator	4lb	\$1,350.00
177979	115 to 230 VAC, with analog output	4 lb	\$1,725.00
177980	115 to 230 VAC, with relay board	4 lb	\$1,725.00
177982	115 to 230 VAC, with EtherNet/IP, single port	4 lb	\$2,000.00
177983	115 to 230 VAC, with ProfiNet, single port	4 lb	\$2,000.00
177984	115 to 230 VAC, with Modbus/TCP, single port	4 lb	\$2,000.00
177985	115 to 230 VAC, with Profibus DP	4 lb	\$2,000.00
177986	115 to 230 VAC, with DeviceNet	4 lb	\$2,000.00
179155	115 to 230 VAC, with EtherCAT	4 lb	\$2,000.00
880 Panel Mount DC	Powered*		
177987	12 to 24 VDC, indicator	4 lb	\$1,450.00
880 Plus Universal A	C Powered		
177989 [†]	115 VAC, indicator	8 lb	\$1,600.00
178496 [†]	115 VAC, with analog output	8 lb	\$1,950.00
178499 [†]	115 VAC, with relay board	8 lb	\$1,950.00
179147 [†]	115 VAC, with EtherNet/IP, single port	8 lb	\$2,225.00
179148 [†]	115 VAC, with Profinet, single port	8 lb	\$2,225.00
179149 [†]	115 VAC, with Modbus TCP, single port	8 lb	\$2,225.00
179150 [†]	115 VAC, with Profibus	8 lb	\$2,225.00
179152 [†]	115 VAC, with DeviceNet	8 lb	\$2,225.00
179154 [†]	115 VAC, with EtherCAT	8 lb	\$2,225.00
177990 ##	115 to 230 VAC, indicator	8 lb	\$1,600.00
178497 ^{††}	115 to 230 VAC, with analog output	8 lb	\$1,950.00
178500 ##	115 to 230 VAC, with relay board	8lb	\$1,950.00
880 Plus Universal D	C Powered		
178495	9 to 36 VDC, indicator	8 lb	\$1,700.00

^{*}Power cord not included

Indicator part numbers contain the single port network card



† US plug (NA) - Type B



tt Euro Plug - Type E

Options/Accessories

Part #	Description	Price
	ds (5.5 in CPU only)	
179156	Analog output, 0 to 10 VDC, 0 to 20 mA, 4 to 20 mA	\$375.00
179157	Relay board, four dry contact outputs	\$350.00
197343**	Digital I/O, 24-channel TTL output	\$325.00
197347**	Serial ports, dual-channel RS-232/RS-485	\$375.00
Network C	ards	
179158	EtherCAT interface	\$600.00
179159	EtherNet/IP® interface, single port	\$600.00
179160	Profinet® interface, single port	\$600.00
179161	Modbus TCP/IP interface, single port	\$600.00
179162	DeviceNet® interface	\$600.00
179163	Profibus DP interface	\$600.00
205566	EtherNet/IP interface, dual port	\$805.00
205567	Profinet interface, dual port	\$805.00
Hardware		
153660	Metrological sealing kit for panel mount	\$11.00
158404	Adapter plate for IQ310 and 520 replacement	\$73.00
101923	Relay box enclosure, does not include relay	\$495.00
177850	Mount kit, convert Universal to Panel, non-NEMA	\$255.00
180835	Universal backplate with RJ-45 receptacle	\$110.00
197422	Universal backplate with micro USB receptacle	\$125.00
197724	Clear protective overlay for Universal (pack of 5)	\$85.00
15436	Power cord for Panel Mount, US plug	\$18.00
105382	Power cord for Panel Mount, Euro plug	\$18.00
223864	Knob, stainless steel M6 x 1.0 in	\$15.00

Options/Accessories

Part #	Description	Price
Cables		
152434	Cable, USB A to micro A shielded, 2 meters	\$55.00
156817	Cable, Ethernet RJ45 connectors 1 meter	\$35.00
156806	Cable, USB A to A, 1 meter	\$35.00
156809	Cable, USB A to B, 1 meter	\$55.00
Manuals a	nd Software	
152240	Operators manual	\$25.00
158387	Technical manual	\$25.00
Primary Co	omponent Parts	
131740	Overlay, Panel Mount, six-key	\$69.00
163986	Overlay, Universal with numeric keypad	\$69.00
131598	Display board	\$240.00
175603*	Power supply, 100 to 240 VAC	\$210.00
175604*	Power supply, 12 to 24 VDC	\$315.00
175109*	CPU board	\$575.00

^{*} Design change in 2017 to 5.5in wide controller, see replacement parts catalog for the 5.0inch wide boards.

^{**} Requires version 4.0 firmware

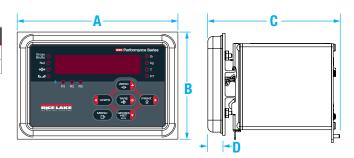
To have your option factory installed, please specify when placing your order.

880/880 Plus Performance™ Series

Digital Weight Indicator and Controller

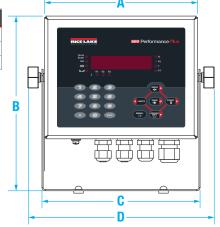
Dimensions

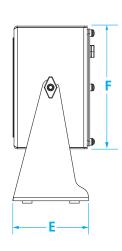
88	80 Panel Mount		
Α	6.00 in (152 mm)	С	4.95 in (126 mm)
В	4.00 in (102 mm)	D	0.58 in (14 mm) BEZEL DEPTH



Dimensions

880 Universal								
Α	8.10 in (206 mm)	D	9.87 in (248 mm)					
В	9.38 in (235 mm)	Е	4.00 in (102 mm)					
С	8.37 in (213 mm)	F	6.50 in (165 mm)					







Approvals



Measurement Canada Approved







Standard Features

- Customizable backlit LCD graphical user interface
- 22 softkeys with 10 user-defined keys
- · Tactile keypad for scale operations, numeric entry and navigation
- On-screen keyboard available during entry mode (or external keyboard)
- Supports 28 scales within 5 different scale types:
 - Analog load cell, multi-range/interval weighing
 - Total scale summing
 - Serial input scales
 - iQUBE² scales
 - · Program scales
- 2 to 14 option slots for additional scale channels, serial ports, digital inputs and outputs, analog outputs and protocol interfaces
- iRite[™] Programming Software
 - Customizable user applications with event-based functions
 - 150 built-in functions for application processes and data tables
- Four serial ports supporting RS-232, RS-485, 20mA
- USB Type A and B replaces Serial on Port 2 (USB model)
- · Alibi memory captures serial port transmissions
- · Configurable data stream format
- 100 setpoints, 27 configurable setpoint types
- Six digital I/O for control
- Four different enclosure types: universal, deep universal, wall mount, panel mount

Specifications

Power:

AC voltages: 100 to 240 VAC Frequency: 50/60 Hz DC voltages: 12 to 24 VDC

Power Consumption:

AC: 25 W (universal) or 65 W (others) DC: 25 W for all models

Excitation Voltage:

10 VDC (± 5 VDC) 16×350 ohm or 32×700 ohm load cells per A/D card

Analog Signal Input Range:

-45 mV to +45 mV

Analog Signal Sensitivity:

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

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

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

System Linearity:

± 0.01% full scale

Digital I/O:

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

Communication Ports:

Four ports on CPU board support up to 115,200bps Port 1: Full duplex RS-232 Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface or USB type A and B connectors Port 3: Full duplex RS-232, 20mA Port 4: Full duplex RS-232, 2-wire RS-485, 20mA Optional dual-channel serial expansion boards Channel A: RS-232, RS-485, 20 mA Channel B: RS-232, 20 mA

Display:

(W × H) 4.6 × 3.4 in (116 × 86 mm), 320 × 240 pixel LCD module with adjustable contrast Transmissive display Transflective display (optional)

Keus/Buttons:

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

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Ratina/Material:

NEMA Type 4X, Type 12, IP66 Stainless steel

Weight:

Universal enclosure: 9.5 lb (4.3 kg) Wall mount enclosure: 23.0 lb (10.4 kg) Panel mount enclosure: 8.5 lb (3.9 kg) Deep universal: 11 lb (5.0 kg)

Warranty:

Two-year limited

EMC Immunity:

10 V/m

Approvals:

NTEP 01-088, Class III/IIIL 10,000 d Measurement Canada AM-5426, Class III/III HD 10,000 d OIML R76/2006-A-GB1-19.08 EU Test Certificate TC11584 cULus Listed (Universal, Deep Universal and Wall Mount) cULus Recognized (Panel Mount) cULus Listed 508A (Custom Wall Mount) CE Marked



920i Universal Part Number/Price

Part #	Description	USB	Est. Weight	Price				
Single-Channel								
67527 [†]	115 VAC		10 lb	\$3,395.00				
115003 [†]	115 VAC	USB	10 lb	\$3,545.00				
67615 [†]	230 VAC		10 lb	\$3,395.00				
120062 †	230 VAC	USB	10 lb	\$3,545.00				
69522 <i>††</i>	230 VAC		10 lb	\$3,395.00				
120074††	230 VAC	USB	10 lb	\$3,545.00				
107713*	12 to 24 VDC, 25 watt		10 lb	\$3,545.00				
120080*	12 to 24 VDC, 25 watt	USB	10 lb	\$3,695.00				
Dual-Chan	nel							
69767 [†]	115 VAC		10 lb	\$3,545.00				
120086 †	115 VAC	USB	10 lb	\$3,695.00				
69772†	230 VAC		10 lb	\$3,545.00				
120090 [†]	230 VAC	USB	10 lb	\$3,695.00				
69774 <i>††</i>	230 VAC		10 lb	\$3,545.00				
120096 ††	230 VAC	USB	10 lb	\$3,695.00				
No A/D Ch	annel							
77790 [†]	115 VAC		10 lb	\$3,195.00				
120100 [†]	115 VAC	USB	10 lb	\$3,345.00				
77791 ##	230 VAC		10 lb	\$3,195.00				
120104##	230 VAC	USB	10 lb	\$3,345.00				

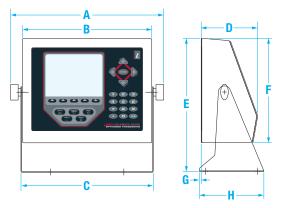
*DC/DC converter installed option, not UL approved



† US plug (NA) - Type B



tt Euro Plug - Type E



Dimensions

920i Universal							
Α	12.50 in (318 mm)	D	4.61 in (117 mm)	G	0.14 in (3.5 mm)		
В	10.56 in (268 mm)	Е	10.87 in (276 mm)	Н	5.25 in (206 mm)		
С	10.90 in (277 mm)	F	8.50 in (216 mm)				



920i Deep Universal Part Number/Price

Part #	Description	USB	Est. Weight	Price				
Single-Channel								
82455 [†]	115 VAC		12 lb	\$3,695.00				
115004 [†]	115 VAC	USB	12 lb	\$3,795.00				
82457 [†]	230 VAC		12 lb	\$3,695.00				
120064 [†]	230 VAC	USB	12 lb	\$3,795.00				
82459 ^{††}	230 VAC		12 lb	\$3,695.00				
120075 ##	230 VAC	USB	12 lb	\$3,795.00				
107714*	12 to 24 VDC, 25 watt		12 lb	\$3,795.00				
120081*	12 to 24 VDC, 25 watt	USB	12 lb	\$3,945.00				
Dual-Chan	nel							
82456 [†]	115 VAC		12 lb	\$3,795.00				
120087 [†]	115 VAC	USB	12 lb	\$3,945.00				
82458 [†]	230 VAC		12 lb	\$3,795.00				
120092 [†]	230 VAC	USB	12 lb	\$3,945.00				
82460 ^{††}	230 VAC		12 lb	\$3,795.00				
120097 ^{††}	230 VAC	USB	12 lb	\$3,945.00				
No A/D Cha	annel							
93243 [†]	115 VAC		12 lb	\$3,445.00				
120101 [†]	115 VAC	USB	12 lb	\$3,595.00				
93244#	230 VAC		12 lb	\$3,445.00				
120105 ##	230 VAC	USB	12 lb	\$3,595.00				

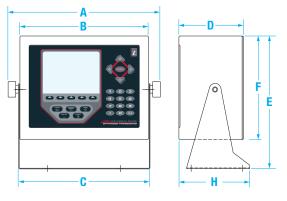
*DC/DC converter installed option, not UL approved



† US plug (NA) - Type B



tt Euro Plug - Type E



Dimensions

92	920i Deep Universal						
Α	12.50 in (318 mm)	D	5.36 in (136 mm)	F	8.50 in (216 mm)		
В	10.76 in (273 mm)	Е	10.87 in (276 mm)	Н	5.88 in (149 mm)		
С	10.90 in (277 mm)						

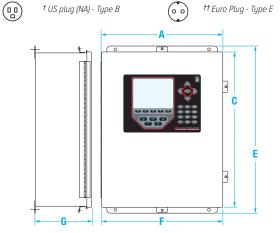
920i® Series



920i Wall Mount Part Number/Price

Part #	Description	USB	Est. Weight	Price			
Single-Cha	Single-Channel						
69763 [†]	115 VAC		23 lb	\$4,295.00			
115005 [†]	115 VAC	USB	23 lb	\$4,395.00			
69765 [†]	230 VAC		23 lb	\$4,295.00			
120066 [†]	230 VAC	USB	23 lb	\$4,395.00			
72133 ††	230 VAC		23 lb	\$4,295.00			
120078 ##	230 VAC	USB	23 lb	\$4,395.00			
107715*	12-24 VDC, 25 watt		23 lb	\$4,395.00			
120082*	12-24 VDC, 25 watt	USB	23 lb	\$4,545.00			
Dual-Chan	nel						
69770 [†]	115 VAC		23 lb	\$4,395.00			
120088 [†]	115 VAC	USB	23 lb	\$4,545.00			
69776 [†]	230 VAC		23 lb	\$4,395.00			
120093 [†]	230 VAC	USB	23 lb	\$4,545.00			
72134 [#]	230 VAC		23 lb	\$4,395.00			
120098 ^{††}	230 VAC	USB	23 lb	\$4,545.00			
No A/D Ch	annel						
77794 [†]	115 VAC		23 lb	\$4,095.00			
120102 [†]	115 VAC	USB	23 lb	\$4,195.00			
77795 ††	230 VAC		23 lb	\$4,095.00			
120106 <i>††</i>	230 VAC	USB	23 lb	\$4,195.00			
153346	115 VAC with start/stop switches		23 lb	\$4,445.00			

*DC/DC converter installed option, not UL approved



Dimensions

920i Wall Mount							
Α	14.30 in (363 mm)	D	18.84 in (479 mm)	F	14.30 in (363 mm)		
В	11.00 in (279 mm)	Е	19.63 in (499 mm)	G	6.75 in (171 mm)		
С	18.20 in (462 mm)						



920i Panel Mount Part Number/Price

Part #	Description	USB	Est. Weight	Price
Single-Cha	nnel			
69764 [†]	115 VAC		9lb	\$3,395.00
115006 [†]	115 VAC	USB	9lb	\$3,545.00
69766 [†]	230 VAC		9lb	\$3,395.00
120069 †	230 VAC	USB	9lb	\$3,545.00
72137 ^{††}	230 VAC		9lb	\$3,395.00
120079 tt	230 VAC	USB	9lb	\$3,545.00
107716*	12-24 VDC, 25 watt		9lb	\$3,545.00
120083*	12-24 VDC, 25 watt	USB	9lb	\$3,695.00
Dual-Chan	nel			
69771 [†]	115 VAC		9lb	\$3,545.00
120089 †	115 VAC	USB	9lb	\$3,695.00
69777 [†]	230 VAC		9lb	\$3,545.00
120095 [†]	230 VAC	USB	9lb	\$3,695.00
72138 ##	230 VAC		9lb	\$3,545.00
120099 ††	230 VAC	USB	9lb	\$3,695.00
No A/D Ch	annel			
77792 [†]	115 VAC		9lb	\$3,195.00
120103 [†]	115 VAC	USB	9lb	\$3,345.00
77793 tt	230 VAC		9lb	\$3,195.00
120107 ^{††}	230 VAC	USB	9lb	\$3,345.00

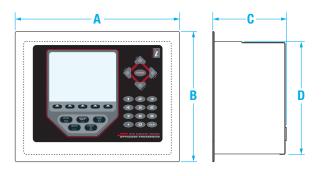
*DC/DC converter installed option, not UL approved



† US plug (NA) - Type B



tt Euro Plug - Type E



Dimensions

920i Panel Mount					
Α	11.56 in (294 mm)	С	5.20 in (132 mm)		
В	9.16 in (233 mm)	D	7.95 in (202 mm)		

920i® Series

Programmable Weight Indicator and Controller

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

Options/Accessories

Оршо	13/Accessories	
Part #	Description	Price
Option C	ards	
68532	A/D, single-channel	\$395.00
68533	A/D, dual-channel	\$525.00
67600	Memory, 1 MB NV RAM	\$595.00
67601	Digital I/O, 24-channel TTL output	\$325.00
67602	Analog output: selectable 0-10 V, 0-20 mA	\$395.00
103138	Analog output, dual-channel 0-10 V, 0-20 mA	\$625.00
67604	Serial port card, dual-channel, RS-232 and RS-485	\$425.00
87697	Analog input +/-10 VDC, 0-20 mA and thermocouple	\$725.00
Network	Cards	
65383	Ethernet thin server (external)	\$397.00
71986	Ethernet TCP/IP 10/100 module (internal)	\$455.00
206271	Wireless LAN module 802.11 b/g	\$670.00
87803	EtherNet/IP® interface	\$895.00
68540	Profibus® DP interface	\$720.00
187816	Profinet® I/O interface	\$895.00
68541	DeviceNet™ interface	\$720.00
103136	ControlNet® interface	\$1,080.00
Expansion	on Cards	
69782	Two-slot expansion board (wall mount)	\$395.00
71743	Two-slot expansion board (panel mount and deep universal)	\$395.00
180047	Two-slot expansion board (panel mount, DC powered)	\$395.00
179488	Two-slot expansion board (wall mount DC powered)	\$395.00
69783	Six-slot expansion board (wall mount)	\$495.00
Hardwar		
83569	Clear protective overlay (package of 5)	\$95.00
70056	Cable, DB9M to DB9F, Straight Cable	\$40.00
99149	Keyboard, QWERTY 109-key USB, flexible, washable	\$135.00
77788	Fiber optic board, installed in 920i	\$231.00
92777	Filter, PreVent™ vent kit PG 7 cord grip	\$32.00
19368	Start/stop controls without box, for use on wall mount	\$475.00
19369	Start/stop switch with FRP box	\$475.00
93359	Keyboard, QWERTY PS/2 connector	\$165.00
	and Software	
69781	iRev™ scale software	\$95.00
72809	Interchange® database software	\$325.00
67887	Additional installation manual	\$55.00
67888	Additional programming reference	\$55.00

Primary Component Parts

Timary Component Farts				
Part #	Description	Price		
Boards				
186272***	CPU board assembly for LED backlight, (blue color)	\$1,725.00		
186273***	Display board, LED back light, transmissive	\$395.00		
186274***	Display board, LED back light, transflective	\$395.00		
206696***	Display kit (186273) and retrofit cable (207045)	\$425.00		
Power Supp	ply			
67613	AC power supply, 25 watt for universal	\$225.00		
71333	AC power supply, 65 watt for deep, panel and wall mount	\$295.00		
132791	Power supply 12 to 24 VDC, 25 watt	\$235.00		
Membrane				
66502	Switch panel membrane	\$125.00		

^{***}Design change in 2018 to LED backlight display.

The LED backlight display can be used with green CPU board Rev N or older by replacing the power supply cable, see Tech Bulletin PN 189640 for compatibility details. There is a generic retrofit PN 207045 for the existing power supply cable or a new power supply cable can be installed. Universal 186464 (AC) 186464 (DC); Deep universal 186278 (AC) 187603 (DC); Panel 186278 (AC) 187603 (DC); Wall 186706 (AC) 188345 (DC); Two-slot expansion for wall 188716 (AC) 189424 (DC); Two-slot expansion panel for deep universal 188717 (AC) 189425 (DC); Six-slot expansion for wall 188774 (AC).

Miscellaneous Parts

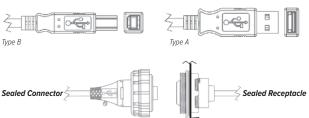
Part #	Description	Price				
Cables for	Cables for Digital I/O					
70780	50-Pin flat ribbon, 24 in	\$95.00				
93577	50-Pin flat ribbon, 31 in	\$75.00				
94384	50-Pin flat ribbon, 50 in	\$95.00				
70779	50-Pin round ribbon with cord grip, 60 in	\$195.00				
72442	50-Pin round ribbon without cord grip, 60 in	\$195.00				

Cables and Receptacles

Part #	Connector Type Length			Price	
USB Cables	(Connector is a m	ale plug)			
79074	A UNSEALED	B Unsealed	2 m	\$35.00	
124700	A SEALED	B SEALED	3 m	\$125.00	
126477	A SEALED	A UNSEALED	3 m	\$545.00	
124701	A SEALED	B UNSEALED	3 m	\$745.00	
124702	B SEALED	A UNSEALED	3 m	\$675.00	
USB Recept	acles (Receptacle	is a socket)			
126476*	A SEALED	A UNSEALED	0.5 m	\$125.00	
124703*	A SEALED	B UNSEALED	0.5 m	\$125.00	
124704*	B SEALED	B Unsealed	0.5 m	\$125.00	
125998*	A SEALED	FIVE-PIN Internal to 920i	0.28 m	\$125.00	
125999*	B SEALED	FIVE-PIN Internal to 920i	0.28 m	\$125.00	
Ethernet Ca	bles				
124706	RJ-45 SEALED	RJ-45 SEALED	3 m	\$625.00	
124707	RJ-45 SEALED	RJ-45 UNSEALED	2 m	\$125.00	
Ethernet Re	ceptacles (Recept	acle is a socket)			
176789*	RJ-45 SEALED		0.75 m	\$145.00	
172734*	RJ-45 SEALED		0.5 m	\$90.00	
126353*	RJ-45 SEALED 0.28 m			\$125.00	
Cable and R	Cable and Receptacle Accessories				
124695	Panel plug 1.125 in diameter			\$15.00	
124694	Cover for sealed			\$25.00	
124689	Cover for flash driver mounts on sealed receptacle			\$45.00	
195607	USB Flash Drive 8GB			\$9.00	

^{*}These options require a milled back plate

Unsealed Connectors



CCFL backlight displays are no longer available.

1280 Enterprise[™] Series

Programmable Color Touchscreen Weight Indicator and Controller



Approvals











Standard Features

- Customizable color touchscreen with graphical user interface
- User-defined softkeys, icons and graphics
- Tactile keypad for scale operations, numeric entry and navigation
- On-screen keyboard available during entry mode (or external keyboard)
- Built-in web server for remote access, systems integration and data monitoring
- Multi-language operation and text entry
- · Supports eight scales within five different kinds:
 - Analog load cell, multi-range/interval weighing
 - Total scale summing
 - · Serial input scales
 - iQUBE^{2™} scales
 - Program scales
- Six smart card slots for additional scale channels, serial ports, digital inputs and outputs, analog outputs and protocol interfaces
- iRite™ Programming Software
 - Five built-in applications: Truck In/Out, recipe storage, filling/dosing, counting, checkweighing
 - Customizable user programs with event-based functions
 - 150 built-in functions for common processes and data tables
 - Customize and transfer data via email, FTP server and networked printers
 - Display data with line charts or bar graphs
 - iRite reporting of iQUBE² alerts
- Email, USB, Ethernet TCP/IP, Wi-Fi Direct $^{\tiny{\circledR}}$, two serial ports RS-232 or RS-485
- Alibi memory captures serial port transmissions
- Four configurable data-stream formats for PC, printers and remote displays
- 100 setpoints, 18 configurable setpoint types
- Eight digital I/O for control and pulse count
- Three different enclosure types: universal with tilt stand, panel mount and wall mount

Specifications

Power:

AC voltages: 100 to 240 VAC; 50/60 Hz

DC voltages: 11 to 30 VDC

Power Consumption:

60 W

Excitation Voltage:

10 VDC (± 5 VDC)

 16×350 ohm or 32×700 ohm load cells per A/D card

Analog Signal Input Range:

-60 mV to 60 mV

Analog Signal Sensitivity:

0.3 μ V/graduation minimum at 7.5 Hz to 120 Hz 1.0 μ V/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

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

System Linearity

± 0.01% full scale

Digital I/O:

Eight I/O channels on CPU board Optional 24-channel I/O expansion boards

Communication Ports:

Port 1 & 2: Full duplex RS-232 with CTS/RTS,

RS-422/485

Baud rate: 1200 to 115200 Port 3: USB 2.0 Device (Micro)

USB host: (2) Type A connectors max 500 mA

Ethernet: Wired 10/100 Auto-MDX Ethernet: Wireless 802.11 b/g/n 2.4GHz

Onboard:

Selectable filters: Three stage, Adaptive or Damping Embedded Linux® OS 8 GB eMMC (system use)

1 GB DDR3 RAM

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

Display:

Seven-inch, 800 × 480 pixel, 500 or 1,000 NIT Twelve-inch, 1280 × 800 pixel, 1,500 NIT

Keys/Buttons:

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

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: -4 °F to 131 °F (-20 °C to 55 °C)

Rating/Material:

Universal: IP69K Wall Mount: IP66

Panel Mount: IP69K, NEMA Type 4X and 12 Stainless steel 304 enclosure

Weight:

Universal enclosure: 11 lb (4.9 kg)
Panel mount enclosure: 8 lb (3.6 kg)
Wall mount enclosure: 23 lb (10.4 kg)
Panel mount 7 in touch-only: 7 lb (3.1 kg)
Panel mount 12 in touch-only: 10 lb (4.5 kg)

Warranty:

Two-year limited

EMC Immunity:

10 V/n

Approvals:

NTEP 15-001/Class III/IIIL 10,000 d Measurement Canada AM-5980C, Class III/III HD 10,000 d OIML R76/2006-A-NL1-19.23 Class III/IIII 10,000 d OIML R61-1/2017 TC8596 cULus Listed (Universal, Wall Mount) cULus Recognized (Panel Mount) CF Marked

1280 Enterprise™ SeriesProgrammable Color Touchscreen Weight Indicator and Controller







7-inch model with keypad

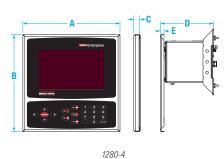
7-inch touch-only model

12-inch touch-only model

Numeric Keypad Models:







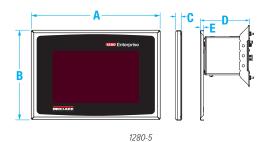
Dimensions

Uı	Universal (1280-2)						
Α	10.86 in (276 mm)	Ε	9.00 in (229 mm)				
В	9.00 in (229 mm)	F	12.50 in (318 mm)				
С	9.24 in (235 mm)	G	5.25 in (133 mm)				
D	4.97 in (126 mm)						

W	Wall Mount (1280-3)						
Α	14.92 in (379 mm)	Ε	19.64 in (499 mm)				
В	11.00 in (279 mm)	F	14.20 in (361 mm)				
С	18.22 in (463 mm)	G	8.08 in (205 mm)				
D	18.84 in (479 mm)						

P	Panel Mount (1280-4)						
Α	9.00 in (229 mm)	D	5.34 in (136 mm)				
В	9.00 in (229 mm)	Ε	0.32 in (8 mm)				
С	0.58 in (15 mm)						

Touch-only Models:



B 1280-6

Dimensions

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

12-inch Touch-only (1280-6)				
Α	14.00 in (356 mm)	D	5.34 in (136 mm)	
В	10.00 in (254 mm)	Е	0.32 in (8 mm)	
С	0.58 in (15 mm)			

Part Number/Price

Part #	Description	Power	Display	Option Installed	Price
Universal Enclo	sure with 500 NIT Display (12	80-2)			
171427 †	1280 Universal	115 VAC	500 NIT	Single Scale Card	\$3,850.00
171441 ^{††}	1280 Universal	100 to 240 VAC	500 NIT	Single Scale Card	\$3,850.00
171662 [†]	1280 Universal	115 VAC	500 NIT	Dual Scale Card	\$4,050.00
172188 [#]	1280 Universal	100 to 240 VAC	500 NIT	Dual Scale Card	\$4,150.00
Panel Mount Er	closure with 500 NIT Display	(1280-4)			
171663	1280 Panel Mount	100 to 240 VAC	500 NIT	Single Scale Card	\$3,725.00
172186	1280 Panel Mount	100 to 240 VAC	500 NIT	Dual Scale Card	\$3,950.00
Wall Mount Enc	losure with 500 NIT Display (1	280-3)			
173673 †	1280 Wall Mount	115 VAC	500 NIT	Single Scale Card	\$4,250.00
174143 ^{††}	1280 Wall Mount	100 to 240 VAC	500 NIT	Single Scale Card	\$4,250.00
174144 †	1280 Wall Mount	115 VAC	500 NIT	Dual Scale Card	\$4,550.00
174145 [#]	1280 Wall Mount	100 to 240 VAC	500 NIT	Dual Scale Card	\$4,550.00
Wall Mount Enc	losure with 1000 NIT Display	(1280-3)			
172184 †	1280 Wall Mount	115 VAC	1,000 NIT	Single Scale Card	\$4,350.00
172185 [#]	1280 Wall Mount	100 to 240 VAC	1,000 NIT	Single Scale Card	\$4,350.00
206563 †	1280 Wall Mount	115 VAC	1,000 NIT	Dual Scale Card	\$4,550.00
172187 [#]	1280 Wall Mount	100 to 240 VAC	1,000 NIT	Dual Scale Card	\$4,650.00
Touch-only 7 in	ch with 500 NIT Display (1280	-5)			
186618	1280 Touch-only 7 in	100 to 240 VAC	500 NIT	Single Scale Card	\$3,750.00
Touch-only 12 in	nch with 1500 NIT Display (12	30-6)			
186465	1280 Touch-only 12 in	100 to 240 VAC	1,500 NIT	Single Scale Card	\$4,375.00

† US plug (NA) - Type B

 (\circ)

†† Euro Plug - Type E

(000) (Brazil) - Type N

ttt BS1363 (UK) - Type G

†††† AS 3112 (Australian) - Type I

Model Reference Chart

Choose any options to best fit your application and we customize

ENCLOSURE TYPE POWER TYPE DISPLAY TYPE CORD TYPE OPTION CARDS ALL SLOTS 1 Universal (1280-2) 1 AC 1 500NIT 1 US Plug 7 in Unviersal Universal A Blank 2 Panel (1280-4) 2 DC If no option, controller will 2 1000NIT 2 Brazil Plug need 6 blanks 3 Wall (1280-3) 7 in Universal Universal ■ Single A/D Scale 4 Touch-only Panel 7 in 3 500NIT 3 Euro Plug (1280-5)7 in Panel/Wall C Dual A/D Scale Universal 5 Touch-only Panel 12 in 4 1000NIT 4 US Plug D 24 Channel Digital I/0 (1280-6)7 in Panel/Wall Wall **■** Dual Serial Channel ⁵ 1500NIT 5 Euro Plug Wall F 4-dry Contact Relay 12 in Panel G Single Analog Out 6 Brazil Plug H Dual Analog Out **7** UK Plug Universal Analog Input J EtherNet/IP 8 AU/NZ Plug Universal **⋉** DeviceNet 9 UK Plug ■ ProfiNet Wall M Modbus TCP 10 AU/NZ Plug Wall N Profibus DP EtherCat

PowerLink

1280 Enterprise[™] Series

Programmable Color Touchscreen Weight Indicator and Controller

Single A/D Scale



Excitation Voltage:

10 VDC bi-polar, 4 or 6 wire sensing 16 × 350 ohms per channel

Analog Input Signal:

- 10 to + 40 mV

Part #	Description	Price
220026	Single scale A/D	\$475.00
166957	A/D sealing kit	\$15.00

Dual A/D Scale



Excitation Voltage:

10 VDC bi-polar, 4 or 6 wire sensing 8×350 ohms per channel

Analog Input Signal:

- 10 to + 40 mV

Part#	Description	Price
220027	Dual scale A/D	\$675.00
166957	A/D sealing kit	\$15.00

Digital I/O



24 channels, configurable as inputs or outputs Inputs: 5 VDC max, active low; Outputs: 20 mA max per channel, active low; 5 VDC source available: 500 mA max

Part #	Description	Price
164684*	Digital I/O	\$350.00
170008	DIO adapter, includes 60 pin flat ribbon cable, 24 in	\$130.00
170009	DIO adapter, includes 60 pin round cable, 60 in	\$155.00
170736	DIO adapter, includes 60 pin cable and cord grip, 60 in	\$155.00

^{* 24} I/O ribbon cable required.

Dual Serial Channel



Two-channel, full duplex RS-232 with CTS/ RTS, RS-485 or RS-422, 1200 to 115200 baud

Part #	Description	Price
164685	Dual serial channel	\$425.00

Single Analog Out



16 bit, voltage output 0 to 10 VDC, current output 0 to 20 mA, 4 to 20 mA $\,$

Part #	Description	Price
165366	Single analog out	\$375.00

Dual Analog Out



16 bit, voltage output 0 to 10 VDC, current output 0 to 20 mA, 4 to 20 mA $\,$

Part #	Description	Price
164686	Dual analog out	\$550.00

Relay Card



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

Part #	Description	Price
164689	Relay card	\$425.00

Analog Input



Analog Input Signal:

± 10 VDC, ± 100 mV, 0 to 20 mA

Part #	Description	Price
164687	Dual analog input	\$650.00

Data Exchange with PLC/DCS Systems

EtherNet/IP



Part #	Description	Price
165792	EtherNet/IP, single port	\$620.00
208129	EtherNet/IP, dual port	\$805.00

DeviceNet



Part #	Description	Price
165793	DeviceNet	\$620.00

Profinet



Part #	Description	Price
165794	Profinet	\$620.00

Modbus TCP



Part #	Description	Price
165796	Modbus TCP	\$620.00

Profibus DP



Part #	Description	Price
165795	Profibus DP	\$620.00

EtherCAT



Part #	Description	Price
179533	EtherCAT	\$620.00

1280 Enterprise[™] Series Programmable Color Touchscreen Weight Indicator and Controller

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

Part #	Description	Price								
Manuals	Manuals and Software									
167659	Manual, Technical	\$35.00								
72809	Interchange database software	\$325.00								
164939	8 GB Micro SD card with SD and USB adapter	\$25.00								
195607	195607 USB flash drive, 1 GB									
Extended	Display Cable Length for Touch Only Models									
182600	Display cable for 7 in (500 NIT) touch-only, 5 ft length	\$130.00								
182601	Display cable for 7 in (500 NIT) touch-only, 10 ft length	\$160.00								
187489	Display cable for 7 in (1,000 NIT) touch-only, 10 ft length	\$160.00								
180027	Display cable for 12 in touch-only, 5 ft length	\$160.00								
180028	Display cable for 12 in touch-only, 10 ft length	\$160.00								
Extended	Touch Cable Length for Touch Only Models									
180744	Touch cable for touch-only, 5 ft length	\$105.00								
180745	Touch cable for touch-only, 10 ft length	\$105.00								

Primary Component Parts

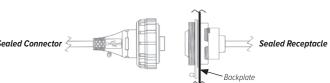
Part #	Description	Price			
Displays					
163400	7 in 500 NIT display	\$350.00			
163399	7 in 1,000 NIT display	\$450.00			
182992	12 in 1,500 NIT display	\$995.00			
Boards					
179992	1280 Main CPU Board with Fan Plate	\$1,100.00			
199157	1280, CPU AC power,Extruded Aluminum Enclosure (Replacement)	\$1,500.00			
Power Su	pplies				
202512	AC power supply board	\$180.00			
202514	DC power supply board	\$180.00			
Overlays					
164121	Keypad, for panel & wall mount	\$75.00			
164120	Touchscreen, for panel & wall mount	\$130.00			
161731	Keypad, for universal	\$75.00			
161730	Touchscreen, for universal	\$145.00			
178498	Touchscreen, for 7 in touch-only panel mount	\$295.00			
176126	Touchscreen, for 12 in touch-only panel mount	\$400.00			
178161	Clear protective everlay display for 7 in display				
178163	Clear protective overlay keypad for 7 in display (pack of 5)	\$63.00			

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

Part #	Connector Type		Length	Price
USB Cables (Co	onnector is a male	plug)		
79074	A UNSEALED	B UNSEALED	2 m	\$35.00
124700	A SEALED	B SEALED	3 m	\$125.00
126477	A SEALED	A UNSEALED	3 m	\$545.00
124701	A SEALED	B UNSEALED	3 m	\$745.00
124702	B SEALED	A UNSEALED	3 m	\$675.00
152434	A UNSEALED	Micro A UNSEALED	2 m	\$55.00
USB Receptacl	es (Receptacle is	a socket)		
176790 Panel Mount	A SEALED	A UNSEALED	0.75 m	\$105.00
126476 Wall Mount	A SEALED	A UNSEALED	0.5 m	\$125.00
172735 Universal	A SEALED	A UNSEALED	0.25 m	\$90.00
Ethernet Cable	es			
72697	RJ-45 UNSEALED	RJ-45 UNSEALED	2 m	\$40.00
124706	RJ-45 SEALED	RJ-45 SEALED	3 m	\$625.00
124707	RJ-45 SEALED	RJ-45 UNSEALED	2 m	\$125.00
Ethernet Rece	otacles (Receptac	le is a socket)		
176789		-45 LED	0.75 m	\$145.00
172734		-45 LED	0.5 m	\$90.00
126353	RJ- SEA		0.25 m	\$125.00
Cable and Rec	eptacle Accessor	ies		
124694	Cover for sealed	receptacles		\$25.00
124689	Cover for flash d	river mounts on s	ealed receptacle	\$45.00

Unsealed Connectors





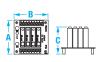
Relays and Racks Input/Output Components



PN 15973 (3.25 × 3.25 × 2.32in)

Relay Racks

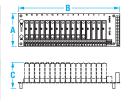
OPTO 22 4-Channel							
15973 Four-rack			cha	nnel relay		\$125.00	
Dimensions							
A 3.25 in (83 mm)		В	3.25 in (83 mm)	С	2.32 in (59 mm)		



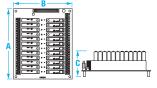
OPTO 22 4-Channel							
		Four- (non		ınnel relay ro	ack	\$160.00	
Di	mensio	ons					
Α	1.20 i (30 m	n m)	В	6.11 in (155 mm)	С	2.32 in (59 mm)	

-	— В		-
A	0 0 00		
¢ M			

OPTO 22 16-Channel									
			ribl	nel relay oon cable on		\$395.00			
Dimensions									
Α	3.25 i (83 m	n m)	В	10.0 in (254mm)	С	2.32 in (59 mm)			



OPTO 22 24-Channel						
33205		24-channel relay rack, ribbon cable connection				\$372.00
Dimensions						
Α	7.50 i (83 m	n m)	В	6.25 in (83 mm)	С	2.32 in (59 mm)



Part Number/Price

Part #	Description	Price			
Input/Output Component					
43942	Allen-Bradley® multi-function relay with digital display	\$575.00			
29616	Dayton multi-function relay	\$325.00			
Other Re	lays				
15952	Eight-pin octal relay, AC/DC output, 10 A, 120 VAC coil	\$57.00			
15960	Eight-pin octal relay, AC/DC output, 10 A, 6 VDC coil	\$30.00			
15961	Eight-pin octal socket	\$21.00			
70780	Cable, 50-pin flat ribbon for digital I/O, 24 in	\$95.00			
70779	Cable, 50-pin round ribbon for digital I/O with cord grip, 60 in	\$195.00			
72442	Cable, 50-pin round ribbon for digital I/O without cord grip, 60 in	\$195.00			
93577	Cable, 50-Pin flat ribbon for digital I/O, 31 in	\$75.00			
94384	Cable, 50-Pin flat ribbon for digital I/O, 50 in	\$95.00			

Relays

Part #	Voltage	Description	Price		
OPTO 22 1-Channel Input Relay					
15972	90 to 140 VAC	G4IAC5-L (N/O), yellow	\$50.00		
36631	180 to 280 VAC/VDC	G4IAC5A (N/O), yellow	\$52.00		
15969	10 to 32 VDC	G4IDC5 (N/O), white	\$50.00		
OPTO 22 1	l-Channel Output R	elay			
15971	115 VAC	G4OAC5 (N/O), black	\$50.00		
22847	115/230 VAC	G40AC5A5 (N/C), black	\$67.00		
36632	115/230 VAC	G4OAC5A (N/O), black	\$52.00		
15970	100 VDC	G4ODC5R, (N/O) dry contact, red	\$50.00		
121345	60 VDC	G4ODC5, (N/O), red	\$50.00		
22848	100 VDC	G4ODC5R5, (N/C) dry contact, red	\$77.00		
Relay Boa	rds Fixed Dry Cont	act Relay			
30549	2-channel 120 to	2-channel 120 to 240 VAC or 30 VDC/5 A			
15959	4-channel 120 to 240 VAC or 30 VDC/5 A		\$305.00		
29615	Board, relay mounting 1-channel (requires DIN rail for mounting (non UL)		\$105.00		
33207	Board, relay mounting 8-channel		\$200.00		

Miscellaneous Parts

Part #	Description	Price				
Cables for	Cables for Digital I/O					
70780	50-pin flat ribbon, 24 in	\$95.00				
93577	50-pin flat ribbon, 31 in	\$75.00				
94384	50-pin flat ribbon, 50 in	\$95.00				
70779	50-pin round ribbon with cord grip, 60 in	\$195.00				
72442	50-pin round ribbon without cord grip, 60 in	\$195.00				
170008	60-pin flat ribbon with 50-pin adapter, 24 in	\$130.00				
170009	60-pin round with 50-pin adapter, 60 in	\$155.00				
170736	60-pin round with 50-pin adapter and cord grip, 60 in	\$155.00				
Opto 22 Misc.						
26834	Fuse, 1A 250V (for PN 15970 and PN 22848)	\$12.00				
21735	Fuse, 4A 250V (for PN 15971, PN 22847 and PN 36632)	\$26.00				
16478	Quencharc arc suppressor	\$11.00				
101923	FRP enclosure with Opto four-channel rack	\$495.00				
99032	Adapter plate, for four-channel Opto rack 33490	\$5.25				
155253	Board assembly, DWM IV, eight-channel, Opto 22 G4 series compatible, (non UL)	\$245.00				

LaserLight3™



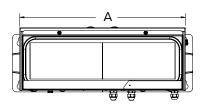
Approvals

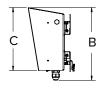


easurement

Dimensions

La	LaserLight3					
Α	23.00 in (584 mm)	E	5.00 in (127 mm)			
В	10.10 in (256 mm)	F	8.00 in (203 mm)			
С	8.73 in (222 mm)	G	25.02 in (636 mm)			
D	5.87 in (149 mm)					







Standard Features

- Color display
- · Displays six high-intensity digits up to 5 in height
- Adjustable daylight/night intensity
- Mirror mode (reverse image) function
- Durable weather tight enclosure with flip-down door
- · Flat-wall mounted or add VESA or offset mount

Options

- Wireless LAN, Wi-Fi interface 802.11 a/b
- Wireless interface, pair of ConnexLink™ radios and mount
- Pole mount kit, VESA flat wall for 2 to 6 inch pole $(W \times H) 200 \times 100 \text{ mm}, 6 \text{ fasteners } (M4 \times 8 \text{ mm})$
- · Sunshade visor, 8-inch painted steel

D

Specifications

Power:

AC voltages: 100 to 240 VAC; 50/60 Hz 120 watt (120 VAC)

Output Interface:

Ethernet TCP/IP, independently configurable echo port

Input Data Format:

Baud rate: 1200, 2400, 4800, 9600, 19200, 38400, 57600 and 115200 self-learning or configurable

Update:

Continuous or out-of-motion modes Message interrupt mode

Digital I/O:

Four I/O read or set

5 V logic

Communication Ports:

Ethernet TCP/IP, RS-232, RS-485, 20 mA

Character Format:

7 or 8 data bits; even, odd, or no parity; 1 or 2 stop bits

Maximum Viewing Distance:

4-inch character 100 ft (30 m) 5-inch character: 150 ft (46 m)

Viewing Angle:

160°

Display:

Bright, outdoor color LED lamps 128 × 32 pixel, 4 mm pitch Decimal or comma indication Weight display with units and mode Message display 1, 2 or 4 lines

Keys/Buttons:

Zero, Gross/Net, Tare, Units, Print, Menu

Time:

Software enable, 12 or 24 hour format

Date:

Software enable, US or ISO format

Temperature:

Operating: -40 °F to 120 °F (-40 °C to 49 °C)

Rating/Material:

IP66

Mild steel, powder-coated

Weight:

20 lb (9 kg)

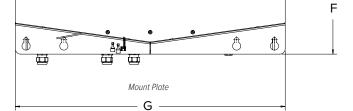
Warranty:

Two-year limited

Approvals:

NTEP 22-096

Measurement Canada AM-6210C



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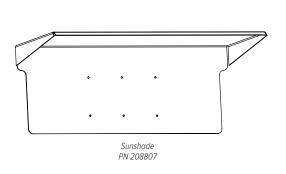


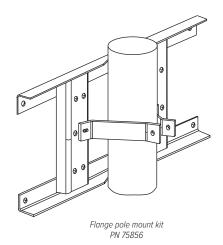
Part Number/Price

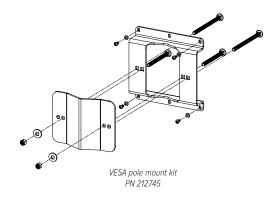
Part #	Description	Est. Weight	Price
205780	LaserLight3 large-display weight indicator	20 lb	\$2,495.00

Options/Accessories

Part #	Description	Price
212745	Pole mount kit, VESA flat-wall, 200 mm W x 100 mm H, 6 fasteners (M4 x 8 mm) for 2-6 inch pole	\$100.00
75856	Pole mount kit, 4-in flange style (24-in wide frame use with 4-8 in dia. pole)	\$280.00
208807	Sunshade, 8-in	\$135.00
209118	Wireless LAN, RS-232/Wi-Fi interface 802.11 a/b XPico module	\$250.00
212753	Wireless interface, pair of ConnexLink radios transceiver kit and mount	\$835.00







NDICATORS/

LaserLT-60 and LaserLT-100

Large-Display Digital Weight Indicators





LaserLT-100

Approvals





Part Number/Price

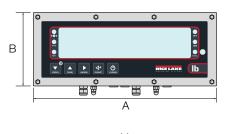
Part #	Description	Price
197453	LaserLT-60, indicator with weighing functionality 2.4 in (60 mm) LED	\$1,380.00
197454	LaserLT-100, indicator with weighing functionality 4.0 in (100 mm) LED	\$1,765.00

Options/Accessories

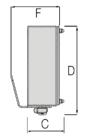
Part #	Description	Price
185256	Mount bracket, 2 tilting side brackets for LaserLT-100	\$65.00
185258	Visor for LaserLT-100	\$165.00

Dimensions

Larg	Large Display Digital Weight Indicator						
Lase	rLT-60						
Α	16.14 in (410 mm)	D	7.28 in (185 mm)				
В	6.50 in (165 mm)	E	2.64 in (67 mm)				
С	3.03 in (77 mm)	F	4.84 in (123 mm)				
Lase	rLT-100						
Α	16.93 in (430 mm)	D	7.63 in (194 mm)				
В	7.28 in (185 mm)	E	2.52 in (64 mm)				
С	2.52 in (64 mm)	F	3.98 in (101 mm)				







Standard Features

- LED Display
- · Integrated five-key waterproof keypad
- Includes removable back wall mount bracket
- Up to four independent scales or four load cell inputs
- Quick menu for real and theoretical calibration
- Up to three calibration linearization points
- Semi-automatic and presettable tare
- Two digital outputs for 13 setpoint types with timers to enable on and delay period
- Two digital inputs for operating keys remotely

Specifications

Power:

AC voltages: 100 to 240 VAC DC voltages: 12 to 24 VDC

Excitation Voltage:

5 VDC, 120 mA, 16 × 350 ohm

Analog Signal Input Range:

± 39 mV

Analog Signal Sensitivity:

 $0.03 \,\mu\text{V/graduation minimum}$ $0.3 \,\mu V/graduation$ recommended

A/D Sample Rate:

Four channel A/D up to 200 Conv./sec. auto select

Resolution:

Internal: 1,500,000 counts Display: 800,000

Digital I/O:

Two inputs: 12/24 VDC

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

Communication Ports:

(1) RS-232, (1) RS-485

Display:

6-digit, 7-segment discrete red LED lamps, single width 2.4 in (60 mm) or 4 in (100 mm) digit Decimal/comma indication in any position Annunciators for NT, Stability, COZ 5 levels of intensity

Maximum Viewing Distance:

LaserLT-60: 2.4 in digit 75 ft (25 m) LaserLT-100: 4 in digit 100 ft (30 m)

Keys/Buttons:

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

Temperature: -40° F to 120° F (-40° C to 49° C)

Rating/Material:

304 stainless steel, IP68

Weight: 10 lb (4.5 kg)

Warranty:

One-year limited Approvals:

NTEP CC 20-046 III/IIIL 10,000 d Measurement Canada AM-6165C III/IIIL 10,000 d CE Marked

1280 Enterprise[™] Series User Programs







- Pre-programmed applications are built in or available as free downloads from www.ricelake.com/1280
- · Applications are designed to carry out process-specific weighing tasks
- Utilize Rice Lake's iRite™ programming language to fully customize any application beyond existing functionality
- For use with all models of 1280 Enterprise Series (hardware requirements may apply)



Axle Weighing Program

1280 with custom programming interfaced with a short- or long-axle scale can direct each axle across the scale using traffic lights (optional).

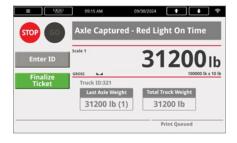
- · Short- or long-axle
- Auto or manual weighment types
- Weigh-out ticket format
- Weigh ticket with individual axle weight and total
- · Inbound and transaction storage

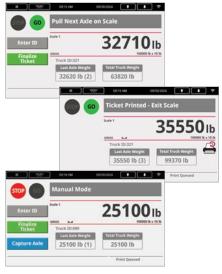
Optional

- · Remote print input
- Manual weighing short axle, long axle weigh-in and -out with axles

Suggested Hardware:

- PN 171427 1280 single channel A/D
- PN 81076 Epson TM-U220
- PN 101923 FRP box with 4-channel rack OPTO22 (relays not included)
- PN 23146 traffic light kit
- PN 15971 AC output relays for above (2 needed)
- PN 167093 LaserLight2 Stop/Go remote display







Truck In/Out Program

Truck In/Out programs offer advanced reporting through customer or truck reports including transaction database storage.

- Value swapping (on/off)
- · Stored empty truck (tare) weights on/off
- Printed inbound/outbound tickets
- Customer reports by product or truck
- Tag, inbound, product, customer and transaction database storage

Optional

· Manual toggle of lights

Suggested Hardware:

- PN 171427 1280 single channel A/D
- PN 220027 1280 dual channel A/D for 3-scale
- PN 108425 iQUBE2 4-channel (additional 4-channel iQUBE2 board PN 108433)
- PN 81076 Epson TM-U220 ticket printer
- PN 23113 Epson TM-U295 ticket printer
- PN 167093 LaserLight2 Stop/Go remote display





1280 Enterprise[™] Series User Programs



Static Checkweigher Program

Application for static checkweigher with a stored low and high weight associated with an ID. A digital output will be activated based on configuration parameters: over, under or accept. Stores the ID, weight, status and time/date in a database.

- · Stored IDs with high/low weight
- · Transaction storage
- Digital I/O for Over/Under/Accept values
- · Ticket formatting
- Compatible with WeighVault

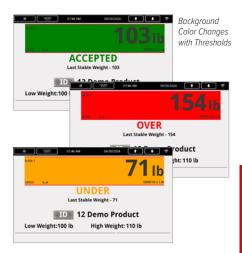
Suggested Hardware:

- PN 171427 single channel 1280 universal
- PN 81076 TM-U220D tape printer (sold separately, PN 15547 25-Pin communication cable)
- PN 225024 scanner kit QD2590
- PN 125546 WeighVault for CW90-90X and 1280

Password Protected Access to Setup

07:45 AM 09:00:0







Counting Program

Ideal for piece counting and packaging applications, configuration for two scales. System only supports PRIMARY units.

- · Supports two (2) scales, sampling and counting
- · Part database
- · Transaction storage
- Ticket formatting
- · Compatible with WeighVault

Suggested Hardware:

- PN 171662 1280 dual channel A/D card
- PN 81076 TM-U220D tape printer (sold separately, PN 15547 25-Pin communication cable)
- PN 125546 WeighVault for Counterpart and 1280





Configuration Menu Includes View of Weight Value



Filling/Dosing Program

Application for gross or net container filling, including auto-fill and discharge settings for single-scale systems.

- · Auto fill, auto discharge
- Single scale
- Transaction storage
- Start/E-stop digital I/O
- Container-in-place input
- · Fast and slow fill, complete, zero, discharge
- · Print output



Recipe Program

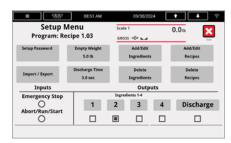
Formula Batcher is an automated program, with up to eight ingredient setpoints.

- Single scale and digital I/O option cards
- Auto tare, begin/end and store
- Formula, ingredient and transaction storage
- · Transmit fill and accumulation through serial ports
- Built-in safety interlocks
- Batch ticket and total report
- Start/E-stop, fast and slow fill, complete and discharge outputs

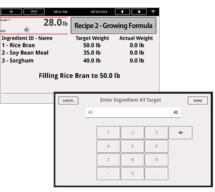


Suggested Hardware (Recipe and Filling/Dosing):

- PN171427 Single Channel 1280 Universal
- PN 81076 Epson TM-U220 ticket printer
- PN 23113 Epson TM-U295 ticket printer
- PN 101923 FRP Box with 4-channel rack OPTO22 (relays not included)
- PN 19369 FRP Box with Start/E-Stop/Abort/Run







920i® User Programs



Standard Features

- Pre-programmed software to carry out specific weighing functions
- Utilize Rice Lake's iRite™ programming language
- For use with all Rice Lake 920i models (hardware requirements may apply)
- · Available pre-installed with purchase of new equipment, or via iRev™ for installation on existing 920i models
- Fully customizable

Part Number/Price

Part #	Description	Price
153146	Short axle weighing program	\$595.00
SZ99999	Truck in/out with report	\$73.00
77297	Truck in/out with products/customers/trucks and reports	\$520.00
156886	Grain program with shrink calculation	\$395.00
156959	Dual kiosk truck in/out single scale	\$1,050.00

Short Axle Weighing Program

PN 153146:

920i custom program will interface to a short axle scale and direct each axle across the scale using traffic lights.

Suggested Hardware:

- PN 67527 920 single channel A/D
- PN 23113 Epson TM-U295 ticket printer
- PN 101923 FRP box with 4 channel relay rack, for traffic light control
- PN 23146 Traffic light kit
- PN 15971 AC output relays for above (2 needed)
- PN 103181 LaserLight remote display (optional)
- PN 167093 LaserLight 2 remote display (optional)





Grain Program with Shrink Calculator

PN 156886:

This custom application for the 920i supports weighing trucks of grain. Up to 200 grain types, associated divisors and accumulator can be stored. Up to 500 accounts and 1,000 trucks can be stored.

Suggested Hardware:

- PN 67527 920 single channel A/D
- PN 67600 1M memory card
- PN 23113 Epson TM-U295 ticket printer
- PN 93359 PS2 keyboard







Truck In/Out with Products/ **Customers/Trucks and Reports**

PN 77297:

This program supports truck in/ out weighing program for manual truck transactions using Rice Lake Weighing Systems' 920i digital weight indicator. Stored IDs allow you to keep a database of truck IDs, customer, product, project information and weigh-in weights in the indicator's memory. Parameters are accessed by simply scrolling through the Supervisor main menu using the down arrow on the 920i. The 920i can automatically store up to 100 truck IDs and tare weights, 950 customers, 1,000 products and 1,000 projects.

Suggested Hardware:

- PN 67527 920 single channel A/D
- PN 67600 1MB memory card
- PN 23113 Epson TM-U295 ticket printer
- PN 93359 PS/2 keyboard



Dual Kiosk Truck In/Out Single Scale

PN 156959:

System consists of a bidirectional single platform truck scale, inbound truck kiosk and outbound truck kiosk. Inbound (if two outbound kiosks are used) and outbound tickets with transaction storage of each weighment.

Suggested Hardware:

- (2) PN 119687 Inbound/Outbound kiosk
- PN 119689 A/D kiosk option

Truck In/Out with Report PN SZ99999:

920i program allows trucks to weigh in and out (saves inbound weight after weighing out and has value swapping) and stores the transaction after each weigh out with truck ID, gross, tare and net. Transactions may be printed or cleared at any time through the Setup menu. An HID scanner is available as a peripheral piece of hardware.

Suggested Hardware:

- PN 119687 Outbound kiosk
- PN 119689 A/D kiosk option
- PN 119743 HID kiosk option

















920i® FlexWeigh Systems

Fillers/Batchers





Standard Features

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

Standard Switches	101	102	103	104	201	202
E-Stop mushroom	X	X	X	Χ	X	X
Reset/resume	X	X	X	Χ	Х	X
Start	X	Х	Х	Х	Х	X
Discharge	-	Х	-	-	-	X

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

^{*} Dispense for 103 and 104

101 Basic Filler

Place an empty container on the scale. Automaticallu fill the container to a preset weight. Remove the container from the scale. Replace it on the scale with an empty container and repeat the process.

102 Automatic Fill, **Automatic Discharge**

Place an empty container under the scale. Automatically fill the scale to a preset weight. Discharge the scale into the container. Remove the container from under the scale. Replace it under the scale with another empty container and repeat the process.

103 Loss-In-Weight Filler

Dispense preset net weight quantities from the scale until either low level or less-than-preset gross weight is achieved. Then refill to high level.

104 Loss-In-Weight Filler

Product supply containers are placed on the scale. Net weight quantities are dispensed from the containers until empty. When containers empty in the middle of a dispense cycle, the cycle is paused and allowed to resume where it left off when the emptu 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 systems are designed for 120VAC line voltage. If the application requires 220VAC or DC control voltage, please consult with sales before placing an order.

920i® FlexWeigh Systems Fillers/Batchers

Part Number/Price

Part #	Description	Est. Weight	Price
120320	920i FlexWeigh Systems 101	23 lb	\$5,045.00
199060	920i FlexWeigh Systems 101, includes manual/auto and jog switches	23 lb	\$5,395.00
120321	920i FlexWeigh Systems 102	23 lb	\$5,295.00
199061	920i FlexWeigh Systems 102, includes manual/auto and jog switches	23 lb	\$5,645.00
120322	920i FlexWeigh Systems 103	23 lb	\$5,245.00
120323	920i FlexWeigh Systems 104	23 lb	\$5,045.00
207904	920i FlexWeigh Systems 201	23 lb	\$5,295.00
207905	920i FlexWeigh Systems 202	23 lb	\$5,495.00

Options/Accessories

Part #	Description	Price
120491	920i FlexWeigh Systems 101 manual	\$25.00
120493	920i FlexWeigh Systems 102 manual	\$25.00
124473	920i FlexWeigh Systems 103 manual	\$25.00
120496	920i FlexWeigh Systems 104 manual	\$25.00
152146	920i FlexWeigh Systems 201/202 manual	\$25.00

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

Optional Switches (Installed Price: \$150.00)

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

Optional Front Panel Lights (Installed Price: \$150.00)

	Lamp	Legend	101, 102	103	104	201	202
Ready	94289 Green	121051	Х			Х	Х
Fill Complete	94290 Red	121052	X			Х	X
Filling	98760 Amber	121053	X				
Filling Fast	98760 Amber	121054	Х				
Filling Slow	98760 Amber	121055	X				
Discharging	94292 Blue	121056	X			Х	Х
Discharging Fast	94292 Blue	121057	X				
Discharging Slow	94292 Blue	121058	X				
Dispensing	98760 Amber	121059		Х	Х		
Dispensing Fast	98760 Amber	121060		X	Х		
Dispensing Slow	98760 Amber	121061		Χ	Х		
Dispensing Complete	94290 Red	121062		Χ	Χ		
Refilling	94292 Blue	121063		Χ			
Refill Complete	94290 Red	121064		Χ			
_ow Supply	94290 Red	121065		Χ			
-ill Time Alarm	94290 Red	121066		X	X		
eeding (1-4)	98760 Amber	_				Χ	Χ
Slow Cycle	94290 Red	_	X	Χ	Х		

920i® FlexWeigh Systems

Bulkweighers and Flip Flop Fillers



Approvals





Available with models 107. 108 and 109

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

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

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

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

Standard Features

- · Wall mount stainless steel enclosure
- Application program 107, 108, 109
- Front panel switches E-Stop, Start/Resume, End Cycle, Ship/Recv (only 109)
- Softkeys for presets, ID1 and ID2
- · Accumulating weight streaming
- Fill and discharge sequence controls
- Fill and discharge gate monitoring
- Printer online checking
- Weigh and surge hopper overfill monitoring
- Transmitted audit trail
- Digital I/O board
- Relay rack and SSR relay outputs

Options

- Pilot lights for error indication
- · Manual override switches

107 Shipping Bulkweigher

The 920i FlexWeigh 107 is designed for basic shipping-mode bulkweighing applications. In shipping mode, a scale is loaded and discharged repetitively until the accumulated weight meets the overall target value.

108 Receiving Bulkweigher

The 920i FlexWeigh 108 is designed for basic receiving mode bulkweighing applications. In receiving mode, a scale is loaded and discharged until there is no more product to receive. To end the cycle, the End Cycle button is pressed.

109 Ship/Receive Bulkweigher

The 920i FlexWeigh 109 allows the user to select which mode of operation to use. This is done with a three-position locking key switch.

111 Flip Flop Filler

The 920i FlexWeigh 111 is designed for filling two scales to a target weight in sequential "flip-flop" fashion. As one scale is filled, operators can prep the second scale, e.g., moving a container into place.

112 Flip Flop Filler with Discharge

The 920i FlexWeigh 112 is designed for filling two scales to a target weight in sequential "flip-flop" fashion. As one scale is filled, the second scale is discharged via independent or manual methods.

Options/Accessories

Part #	Description	Price
151848	920i FlexWeigh Systems 107/108/109 manual	\$25.00

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

Optional Switches Installed Price: \$150.00

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

Part Number/Price

Part #	Description	Est. Weight	Price
207906	920i FlexWeigh Systems 107	23 lb	\$6,795.00
207907	920i FlexWeigh Systems 108	23 lb	\$6,795.00
207908	920i FlexWeigh Systems 109	23 lb	\$7,145.00
207909	920i FlexWeigh Systems 111	23 lb	\$6,445.00
207910	920i FlexWeigh Systems 112	23 lb	\$6,845.00

920i® FlexWeigh Systems



Standard Features

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

105 Basic Flow-Rate Controller

Dispense preset net weight quantities at preset flow rate values.

106 Loss-In-Weight with Flow-Rate Control and **Automatic Refill**

Dispense preset net weigh quantities at preset flow rate values with automatic refill when gross weight drops below threshold.

Standard Switches/Outputs

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

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

^{*} Dispense for 105 and 106

Approvals



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

Part Number/Price

Part #	Description	Est. Weight	Price
Consult	920i FlexWeigh Systems 105	23 lb	\$4,850.00
Consult	920i FlexWeigh Systems 106	23 lb	\$4,850.00

Accessories

Part #	Description	Price
Consult	920i FlexWeigh Systems 105 manual	\$73.00
Consult	920i FlexWeigh Systems 106 manual	\$73.00

920i® FlexWeigh Systems

Hand Batchina



<u> Manufacturer-Approved</u> DIRECT REPLACEMENT FOR FLEXWEIGH'S DWM-IV

Standard Features

- · Stainless deep universal mount enclosure
- Softkeys for presets ID#; formulas; accumulating, subtotal and total registers
- Switch for manual confirmation
- 20 ingredient database
- 100 formula database
- Audit trail data output
- Ingredient usage totals

211 Manual Batching System

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

Approvals



Part Number/Price

Part #	Description	Est. Weight	Price
207927	920i Flexweigh Systems 211	13 lb	\$3,945.00



Approvals



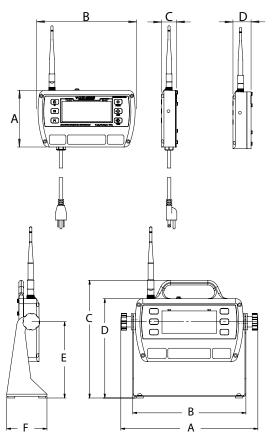
Standard Features

- Compatible with all ScaleCore™ based products
- LCD display
- · Time and date
- Membrane keypad for remote-control functionality
- User-definable function keys for added versatility
- · Swivel tilt stand

Dimensions

MSI-	8000HD
Α	5.09 in (129 mm)
В	8.98 in (228 mm)
С	1.35 in (34 mm)
D	1.63 in (41 mm)

With Tilt Stand		
Α	11.06 in (281 mm)	
В	9.13 in (232 mm)	
С	9.50 in (241 mm)	
D	8.02 in (204 mm)	
E	6.16 in (156 mm)	
F	3.25 in (83 mm)	



Options

(Contact MSI for application consultation)

- 18 to 72 VDC power
- Up to 8 configurable relay outputs
- Wi-Fi communications
- Wi-Fi indicators
- 802.15.4 Serial RF
- FHSS
- · Wired Ethernet

Specifications

Power:

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

Optional battery power module available

Excitation Voltage:

4.8 V current limited and over-voltage protected

RF Remote Channels:

Up to four remote sensors, monitored individually, in pairs or sum all (non-A/D version only)

Service Counters:

A/D version only

A/D Inputs:

Two independent or summing load cell inputs

Filtering:

Off, Low, Hi-1, Hi-2

RF Radio Link:

2.4 GHz 802.15.4

Compatible with all ScaleCore™ based products including: MSI-7300 Dyna-Link 2, MSI-3460 Challenger 3, MSI-4260 Port-A-Weigh, MSI-7000 and MSI-7001

RF Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:

Dual RS-232 communication ports

Annunciators:

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

Channels: 1, 2, 3, 4, TTL

Display:

Six-digit 1.0 in (26.4 mm) LCD

Units Displayed:

Pounds, kilograms, tons, metric tons, kilonewtons

Keys/Buttons:

On/Off, zero (100%), tare, print, and Two user-defined keys for the following functions: peak hold, high resolution, total, view total, net/gross, units switching

Ratina/Material:

Enclosure: NEMA Type 4, IP68 milled anodized aluminum with O-ring gaskets

Temperature:

Certified: 14 °F to 104 °F (-10° °C to 40 °C) Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Warranty:

One-year limited

Approvals:

NTEP 15-110

Part Number/Price

Part #	Description	Est. Weight	Price
153591	MSI-8000HD ScaleCore RF/Remote Display/85 to 265 VAC	5 lb (2.5 kg)	\$1,625.00
154853	MSI-8000HD ScaleCore RF/Remote Display/Internal Battery	5 lb (2.5 kg)	\$1,775.00
160476	MSI-8000HD ScaleCore RF/Remote Display/7 to 36 VDC	5 lb (2.5 kg)	\$1,575.00
159376	MSI-8000HD ScaleCore RF/Remote Display/9 to 36 VDC	5 lb (2.5 kg)	\$1,600.00
158427	MSI-8000HD Indicator/2 A/D Inputs/85 to 265 VAC (non RF)	5 lb (2.5 kg)	\$1,975.00
158428	MSI-8000HD Indicator/2 A/D Inputs/Internal Battery (non RF)	5 lb (2.5 kg)	\$2,100.00
160478	MSI-8000HD Indicator/2 A/D Inputs/7 to 36 VDC (non RF)	5 lb (2.5 kg)	\$1,775.00
159380	MSI-8000HD Indicator/2 A/D Inputs/9 to 36 VDC (non RF)	5 lb (2.5 kg)	\$1,800.00
158425	MSI-8000HD RF Indicator/2 A/D Inputs/85 to 265 VAC	5 lb (2.5 kg)	\$2,000.00
158426	MSI-8000HD RF Indicator/2 A/D Inputs/Internal Battery	5 lb (2.5 kg)	\$2,175.00
160477	MSI-8000HD RF Indicator/2 A/D Inputs/7 to 36 VDC	5 lb (2.5 kg)	\$2,000.00
159378	MSI-8000HD RF Indicator/2 A/D Inputs/9 to 36 VDC	5 lb (2.5 kg)	\$2,025.00

Options/Accessories

Part #	Description	Price
155173	MSI-8000HD spare tilt stand option kit	\$94.00
155193	MSI-8000HD Ethernet TCP/IP option kit wired	\$450.00
162178	Antenna extension kit, 6 ft	\$510.00
148624	MSI-8000HD serial RS-232 cable	\$140.00
158779	MSI-8000HD two each coil relay option kit, 250 VAC/30 VDC 5 A or 100 VDC 0.4 A	\$390.00
158780	MSI-8000HD two each solid state relay option kit, 60 Vpk 2.7 A	\$390.00
158781	MSI-8000HD two each solid state relay option kit, 200 Vpk 0.9 A	\$390.00
149549	Universal 115/230 VAC 50/60 Hz (NA plug standard) battery charger for MSI-8000HD battery powered device	\$175.00
149550	Universal 115/230 VAC 50/60 Hz (international plugs) battery charger for MSI-8000HD battery powered device	\$170.00
171203	Audible alarm kit	\$390.00
176963	Serial print cable	\$175.00
Relays		
172490	Expanded relay kit, Four-Channel, 12 A 5 V, Latching relays	Consult
172492	Expanded relay kit, Four-Channel, 12 A 5 V, Momentary relays	Consult
Consult	Expanded relay kit, Four-Channel, 0.9 A 200 Vpk, AC/DC Solid State relays	Consult
172495	Expanded relay kit, Eight-Channel, 12 A 5 V, Momentary relays	Consult
172500	Expanded relay option kit, Four-Channel, 3 A, 60 Vpk Solid State Form C relays	Consult
172501	Expanded relay option kit, Eight-Channel, 3 A 60 Vpk, Solid State Form C relays	Consult
172502	Expanded relay option kit, Eight-Channel, 0.9 A 200 Vpk, Solid State Form C relays	Consult
171676	Expanded relay option kit, Eight-Channel, 12 A 5 V, Latching relays	Consult



Standard Features

- Multicolor LED displau
- · Backlit membrane keypad for user functioning and controls
- · Tilt bracket included
- · Color changing display (via setpoints)

Options

(Contact MSI for application consultation)

- · Expanded relay outputs
- Battery pack for mobile operation
- · Second radio module for additional network connectivity
- · Remote display 8 to 32 VDC
- · Remote display 5 VDC
- · Remote display 9 to 36 VDC
- · Indicator 8 to 32 VDC
- Wired ethernet
- · Single and dual channel analog output
- · Additional antenna kits
- · Extended relay option kits

Part Number/Price

Part #	Description	Price
Indicator		
221177	AC Power (85-264 VAC), Multi-color display, RF	\$2,025.00
221183	AC Power (85-264 VAC), Multi-color display, RF, Instant power-on	\$2,000.00
221179	DC Power (9 to 36 VDC), Multi-color display, RF	\$2,025.00
221181	DC Power (5 VDC), Multi-color display, RF	\$2,225.00
Remote Dis	play	
221176	AC Power (85 to 264 VAC), Multi-color display, RF	\$2,025.00

Specifications

Power:

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

Excitation Voltage:

4.8 V current limited and over-voltage protected

Functions:

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

Units:

Pounds and kilograms

Channels:

1, 2, 3, 4, TTL

RF Remote Channels:

Up to 4 remote sensors, monitored individually, in pairs or sum all (non-A/D version only) (when used with TranSend™)

Service Counters:

A/D version only

A/D Inputs:

Two independent or summing load cell inputs

Relays:

Two 5 V coil, 250 VAC, 5 A relays

Filtering:

Off, Low, Hi-1, Hi-2

RF Radio Link:

2.4 GHz 802.15.4, optional second channel for Serial RF, 802.11 Wi-Fi

RF Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports

Two RS-232 hard wired communication ports

Annunciators:

Stable, COZ, BT, RF, TTL, NET, kg, lb

Display:

Six-digit, 1.5 in (38 mm) LED display with red/green/ orange coloring

Keys/Buttons:

On/Off, zero, tare, print and two user-defined keys

Temperature:

Certified: 23 °F to 104 °F (-5 °C to 40 °C) Operating: -40 °F to 140 °F (-40 °C to 60 °C) Ratina/Material:

NEMĀ Type 4, IP65 milled anodized aluminum

Warranty:

One-year limited

Approvals:

NTEP 17-036

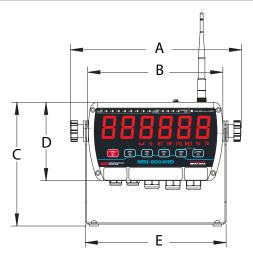
Measurement Canada AM-6068

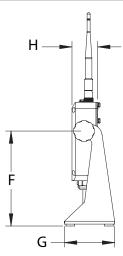
Options/Accessories

Part #	Description	Price
162178	Antenna extension kit, 6 ft	\$510.00
197013	Antenna extension kit, 20 ft	\$545.00
199105	Audible alarm not compatible with battery versions	Consult
22436	Cable assembly, DB9F to bare wires, 6 inche	\$70.00
183437	Battery, 5V Li-ion battery with USB power ports. Output 5 V/3.0 A per port (6.0 A max)Rate, 2 A per port (4 A if both ports are used).	\$245.00
187425	8004 option kit, Wi-Fi with TNC connector	\$200.00
187424	8004 option kit, 2nd Xbee with TNC connector	\$210.00
223594	Option Kit, Dual Analog Output, 8004HD	\$600.00
224817	Ethernet (forward module only)	\$240.00

Dimensions

MSI-8004HD					
With Tilt Stand					
Α	11.10 in (282 mm)	E	9.13 in (232 mm)		
В	8.76 in (223 mm)	F	6.16 in (156 mm)		
С	8.02 in (204 mm)	G	3.25 in (83 mm)		
D	5.09 in (129 mm)	Н	1.66 in (42 mm)		









SCT-1100-AN in Plastic Enclosure

Approvals











Standard Features

- Up to four independent scales or four load cell inputs
- · Quick menu for real and theoretical calibration
- Red LED display
- · DIN rail mountable
- Configurable calibration and setup parameters from keyboard
- Calibration using linearization points
- Reading of the net, gross and tare weights, clearing, semi-automatic and pre-settable tare, scale switch, setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, setting of APW in counting mode, digital input for key press
- · Modbus RU or ASCII protocol
- Easy configuration with Rice Lake Tools software

Part Number/Price

Part #	Description	Est. Weight	Price
202101	Indicator, SCT-1100-AN four load cell input with Analog Output	1 lb	\$560.00
197011	Indicator, SCT-1100-AN four load cell input with Analog Output in plastic enclosure	1 lb	\$675.00

NOTE: PN 182588 is superseded by 202101

Options/Accessories

Part #	Description	Est. Weight	Price
188483	SCT-1000 converter RS-232/485 to Ethernet TCP/IP and Modbus TCP. Does not have an A/D	1 lb	\$400.00
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	\$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	\$160.00



SCT-1000 Serial to Ethernet converter

Specifications

Power:

12/24 VDC

Power Consumption:

70 mA min to 100 mA max

Excitation Voltage:

5 VDC, 120 mA, 8×350 ohm load cells

Analog Signal Input Range:

Analog Signal Sensitivity:

0.3 µV/graduation minimum

A/D Sample Rate:

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

Resolution:

Internal: 1,500,000 counts Display: 800,000

Digital I/O:

Two inputs: 12/24 VDC

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

Serial Ports:

Modbus RTU or ASCII selectable/bidirectional (both ports)

(1) RS-485 for connection to a PC or weight repeater (1) RS-232 for connection to a PC or printer

Analog Output (if equipped):

Opto isolated, 16-bit

0 to 20 mA, 4 to 20 mA (Maximum 350 ohm) 0 to 5 VDC, 0 to 10 VDC (Minimum 10,000 ohm)

Annunciators:

Net, center of zero, stability

Display:

Six-digit (10 mm), red LED

Keus/Buttons:

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

Dimensions:

 $(L \times W \times H)$ 4.17 × 3.54 × 2.28 in

 $(106 \times 90 \times 58 \text{ mm})$

Temperature: 5 °F to 104 °F (-15 °C to 40 °C)

Humidity:

85% non-condensing

Rating/Material:

Enclosure: NEMA Type 4, plastic Clear cover: six PG9 cord grips

Warranty:

One-year limited

Approvals:

NTEP 20-046

Measurement Canada AM-6165C OIML R76/2006-A-GB1-19.17 **UKCA Marked**

cULus Listed





SCT2200 Pictured with optional EtherNet/IP Module

Approvals











Standard Features

- HUB mode connects up to 16 transmitters to one fieldbus
- Two RS-485 port for "daisy-chain" network connection
- Quick menu for real and theoretical calibration
- Remote access through web browser for weight monitoring and calibration over EtherNet/IP, Profinet and Modbus TCP network
- · Red LED display
- DIN rail mountable
- · Calibration using linearization points
- Reading of the net, gross and tare weights, clearing, semi-automatic and presettable tare setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, simulation of key pressure, Modbus RTU or ASCII protocol
- Printer management on second serial port available
- Multi-range function allows for subdividing the scale capacity in two, each up to 3,000 divisions
- Easy configuration with Rice Lake Tools software

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitter	s		
202103 *	Indicator, SCT-2200 for scale input to be used with fieldbus module	1 lb	\$375.00
202104 *	Indicator, SCT-2200-AN with analog output	1 lb	\$500.00
Fieldbus			
182592	Fieldbus, SCT-2200, Profinet module	1 lb	\$625.00
194343	Fieldbus, SCT-2200, Ethernet TCP/IP and Wi-Fi	1 lb	\$620.00
182593	Fieldbus, SCT-2200, Profibus module	1 lb	\$425.00
182591	Fieldbus, SCT-2200, EtherNet/IP module	1 lb	\$625.00
182596	Fieldbus, SCT-2200, DeviceNet module	1 lb	\$625.00
182598	Fieldbus, SCT-2200, EtherCAT module	1 lb	\$620.00
182597	Fieldbus, SCT-2200, CANopen module	1 lb	\$620.00
196694	Fieldbus, SCT-2200, Modbus TCP module	1 lb	\$620.00
182599	Cable with RJ45 plugs, 6 in length	1 lb	\$15.00
212772 **	Fieldbus, SCT-2200, Profibus module	1 lb	\$425.00

NOTE: PN 182587 is superseded by 202103 and PN 182589 is superseded by 202104.

*How to Order the SCT-2200 for use with fieldbus module

Order 1 RJ45 cable for every Scale module connected to a Fieldbus module.
** Compatible with 682 indicator

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	\$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	\$160.00

Specifications

Power: 12/24 VDC

Power Consumption:

70 mA min to 100 mA max

Excitation Voltage:

5 VDC, 120 mA, 8×350 ohm load cells

Analog Signal Input Range:

Analog Signal Sensitivity:

0.3 μV/graduation minimum

A/D Sample Rate:

One channel A/D 24-bit sigma-delta conversion, up to 200 conv/sec. auto select

Resolution:

Internal: 1,500,000 counts Display: 800,000

Digital I/O:

Two inputs: 12/24 VDC

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

Communication Ports:

(1) RS-485, (1) RS-232 Analog output (if equipped): Opt isolated, 16-bit 0-20 mA, 4-20 mA (Maximum 350 ohm) 0-5 VDC, 0-10 VDC (Minimum 10,000 ohm)

Annunciators:

Net, center of zero, stability

Display:

Six-digit 0.31 in (8 mm), red LED

Keys/Buttons:

Five key, tactile feel

Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)

Dimensions:

(L × H × D) 4.72 × 4.52 × 0.98 in (120 × 115 × 25 mm)

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Humidity:

85% non-condensing Rating/Material:

NEMA Type 1 plastic pluggable connectors

Weight:

1 lb (0.5 kg)

Warranty:

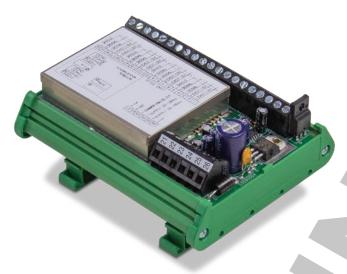
One-year limited

Approvals:

NTEP 20-046

Measurement Canada AM-6165C OIML R76/2006-A-GB1-19.17

UKCA Marked cULus Listed



Approvals



Part Number/Price

Part #	Description		Est. Weight	Price
Transmitters	;			
188725	Indicator, SCT-3300 four load cell input with Analog Ou	tput	1 lb	\$400.00

Options/Accessories

Part #	Description		Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply		1 lb	\$140.00
119244	24 VDC 1.3 A DIN rail mount power supply		1 lb	\$160.00

Standard Features

- Powers up to six (350 ohm) load cells in parallel
- Analog amplifier and transmitter
- Analog output: 0-20 mA, 4-20 mA, 0-10 V
- Mounting on Omega/DIN rail for back panel or junction box

Specifications

Power:

Input: 20 to 28 VDC

Power Consumption:

Excitation Voltage: 10 VDC, 170 mA, 6 × 350 ohm load cells

Analog Signal Input Range:

3.5 to 24 mV

Analog Signal Sensitivity:

0.3 µV/graduation minimum 1.0 µV/graduation recommended

A/D Sample Rate:

300 Hz

System linearity:

± 0.01% full scale

Analog Output (if equipped):

Opto isolated

0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC (min 10,000 ohm)

Dimensions:

(L × W × H) 4.56 × 3.72 × 2.4 in (114 × 93 × 60 mm)

Temperature:

Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Humidity:

85% non-condensing

Rating/Material:

DIN rail mount: NEMA Type 1

Weight:

0.5 lb (0.2 kg)

Warranty: One-year limited

Approvals:

UKCA Marked



Standard Features

- · Load cell status diagnostics
- USB port for quick programming
- Integrated fieldbus and web server for configuration, diagnostics and data backup
- Process up to 4800 weight readings per second. The high speed allows an extremely accurate weight filtering even with weighing being performed in milliseconds.
- Up to 120 updates per second on Fieldbus
- New power supply circuit of the load cells (up to 16) for a better weighing stability
- Power supply circuit with protections against overloads, polarity reversal and short circuits, specific for industrial environments
- Micro-USB communication port for configuration, diagnostics and data backup is available on all versions
- Modbus RTU protocol integrated on all versions, up to 110 updates per second
- Real-time warning of any faults or disconnections of the load cell
- The integrated web server allows full diagnostics, calibration and remote configuration of the weight transmitter from an Ethernet network
- Calibration via theoretical (mV/V), with sample weights, Web server or xSpeed software tool
- Easy configuration with Rice Lake Tools software

Optional xSpeed Software

- · Customization of the weighing filter, to maximize the speed and accuracy in static and dynamic applications
- Graphical weighing analysis for the identification of mechanical disturbances and vibrations. Oscilloscope function for system diagnostics and filter optimization.

Part Number/Price

Part #	Description	Est. Weight	Price
216820	SCT-1SX-AN weight transmitter and analog output for DIN rail mount with digital I/O 2 IN and 4 OUT		\$895.00
216822	SCT-1SX-ETHIP weight transmitter and EtherNet/IP port for DIN rail mount with digital I/O 2 IN and 4 OUT, integrated web server		\$1,295.00
216821	SCT-1SX-PRONET weight transmitter and PROFINET port for DIN rail mount with digital I/O 2 IN and 4 OUT, integrated web server		\$1,095.00
216823	SCT-1SX-MODTCP weight transmitter and Modbus/TCP port for DIN rail mount with digital I/O 2 IN and 4 OUT, integrated web server		\$1,295.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	\$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	\$160.00
Consult	Alibi Memory for type-approved communication to PC/PLC (fiscal memory, max 120,000 weighs) built-in real time clock to print the date/time with PCB, screw terminal, plastic box		Consult
Consult	Real time clock for printing/displaying of date and time		Consult

Specifications

Power:

12 to 24 VDC, 5 W

Power Consumption:

70 mA min to 100 mA max

Excitation Voltage:

5V, 120 mA, 16×350 ohm load cells

Analog Signal Input Range:

± 39 mV

Analog Signal Sensitivity:

High resolution 0.01 μ V/d Legal for trade 0.3 μ V/e

A/D Sample Rate:

Up to 4800 Hz

Resolution:

Internal: 1,500,000 counts Display: 800,000 Legal for Trade divisions

Up to 10,000 e or multi-field 2 × 3,000 e

Digital I/O:

Two inputs, configurable: 12 to 24 VDC Four outputs, configurable: 150 mA 48 VAC/ 150 mA 60 VDC

Communication Ports:

(1) RS-485, (1) RS-232 1 micro-USB port (device) Serial port update rate: up to 1600 Hz Fieldbus update rate: up to 120 Hz

Analog Output (if equipped):

Opto. isolated, 16-bit 0 to 20 mA, 4 to 20 mA (maximum 350 ohm) 0 to 5 VDC, 0 to 10 VDC (minimum 10,000 ohm)

Annunciators:

Net, center of zero, stability

Display:

Six-digit (8 mm), red LED

Keys/Buttons:

Five key, membrane panel zero (down), tare (up), mode (right), print (enter), C (on/off)

Dimensions:

(L × W × H) 4.72 x 0.9 x 4.0 in (120 x 23 x 112 mm)

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:

85% non-condensing

Rating/Material:

Enclosure: ABS plastic

Warranty:

One-year limited **Approvals:**

CE-M EN 45501

2014/30/EU EMC 2014/35/EU LVD 2011/65/EU ROHS OIML R61 - MID OIML R76





Standard Features

- Manage up to four load cells (one scale) or four scales with load cell feed circuit for greater weighing stability
- Process to 2,600 weight readings per second for single-channel
- 14.2 mm display with new configuration menu to simplify calibration and configuration
- All data and adjustments of each scale are available through integrated fieldbus with up to 120 updates per second
- Integrated web server allows complete diagnostics, calibration and remote configuration (not available on AN models)
- Frontal micro-USB communication port for configuration, diagnostics and data backup
- Removable terminal blocks to simplify wiring in the electrical panel
- RS-485 communication port always available on all versions
- Power supply circuit with protections, specific for industrial environment

Optional xSpeed Software

- · Customization of the weighing filter, to maximize the speed and accuracy in static and dynamic applications
- Graphical weighing analysis for the identification of mechanical disturbances and vibrations
- · Oscilloscope function for system diagnostics and filter optimization

Part Number/Price

Part #	Description	Est. Weight	Price
216824	SCT-4XAN high speed weight transmitter and analog output for DIN rail mount with digital I/O, 2 IN, 2 OUT, keypad, LED display (does not include web server)		\$940.00
216825	SCT-4X-ETHIP high speed 4 channel weight transmitter and EtherNet/ IP port for DIN rail mount with digital I/O 2 IN, 2 OUT, 5-key keypad, LED display		\$1,175.00
216826	SCT-4X-MODTCP high speed 4 channel weight transmitter and Mod- bus/TCP port for DIN rail mount with digital I/O 2 IN, 2 OUT, 5-key keypad, LED display		\$1,155.00
216827	SCT-4X-PRONET high speed 4 channel weight transmitter and PROFINET port for DIN rail mount with digital I/O 2 IN, 2 OUT, 5-key keypad, LED display		\$1,125.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	\$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	\$160.00
Consult	Alibi Memory for type-approved communication to PC/PLC (fiscal memory, max 120,000 weighs) built-in real time clock to print the date/time with PCB, screw terminal, plastic box		Consult
Consult	Real time clock for printing/displaying of date and time		Consult

Specifications

Power:

12 to 24 VDC

Power Consumption:

Excitation Voltage:

5 VDC, 120 mA up to 16×350 ohm cells

Analog Signal Input Range:

Analog Signal Sensitivity:

0.3 μV/graduation minimum

A/D Sample Rate:

24-bit A/D

Single-channel up to 2,600 conv/sec

4 channels up to 100 conv/sec

Resolution:

Internal: 3,000,000 counts Display: up to 800,000 Up to 8 linearization points

Digital I/O:

Two inputs: 12/24 VDC

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

Communication Ports:

1 Micro-USB port (device) for PC configuration (1) RS-485, (1) RS-232

Analog Output (if equipped):

Opt. isolated, 16-bit

0-20 mA, 4-20 mA (maximum 350 ohm)

0 to 5 VDC, 0 to 10 VDC (minimum 10,000 ohm)

Annunciators:

Nine I FDs

Display:

Six-digit 0.31 in (8 mm), red LED

Keys/Buttons:

Five tactile keys

Zeroing, Tare, function mode, manual data printing/ sending, on/stand-by

Dimensions:

(L × W × H) 4.17 × 2.20 × 4.64 in

(106 × 56 × 118 mm)

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:

80% RH, non-condensing

Rating/Material:

NEMA Type 1 plastic pluggable connectors **ABS**

Weight:

1 lb (0.5 kg)

Warranty:

One-year limited

Approvals:

CE-M EN 45501





SCT-10 in Plastic Enclosure

Approvals



Standard Features

- · Converts digital weight to analog output
- Sums four input channels in parallel
- Theoretical calibration, real-weigh calibration, linearity calibration
- Push-button or preset tare
- Full-scale analog output with zero setting and PLC correction of analog signal
- · Displays weight, configuration, calibration and error conditions
- DIN-rail mounting, suitable for back panel
- Two digital inputs, two digital outputs
- Supports ASCII or MODBUS-RTU protocols

Part Number/Price

Part #	Description	Est. Weight	Price
129393	SCT-10 converter with Analog Output	1 lb	\$585.00
129394	SCT-10 converter with Analog Output in enclosure	1 lb	\$760.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	\$140.00
119244	24 VDC 1.3 A DIN rail mount power supply	1 lb	\$160.00
131129	Installation manual	1 lb	\$25.00
199687	DIN rail clip right & left end clamp		\$11.00

Specifications

Power:

Input: 12 to 24 VDC

Power Consumption:

Excitation Voltage:

5 VDC, 120 mA, 8×350 ohm load cells

Analog Signal Input Range:

Analog Signal Sensitivity:

 $0.3 \, \mu V/graduation minimum$ 1.0 µV/graduation recommended

A/D Sample Rate:

80 Hz

Resolution:

Internal: 16,000,000 counts Display: 999,999

System Linearity:

± 0.01% full scale

Digital I/O:

2 inputs 5-24 VDC, 2 outputs 24 VDC/60 mA N.O. or N.C. (solid state)

Communication Ports

RS-485 or RS-232 simplex supports up to 115,200 bps

Analog Output:

Opto isolated, 16 bit 0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC, 0-5 VDC, -10 to 10 VDC, 5 to 5 VDC, (min 10 k ohm)

Annunciators:

Net, center of zero, stability, kg, g, lb

Display:

0.3 in (8 mm), six-digit, seven- segment LED

Keys/Buttons:

4-key membrane panel, tactile feel Zero, Tare, Print, Menu, Escape, Left and Up Navigation, Enter

Dimensions:

(L × W × H) DIN Rail Mount: 4.84 × 3.62 × 1.96 in (123 × 92 × 50 mm) Enclosure: 6.69 × 5.51 × 3.74 in (170 × 140 × 95 mm)

Temperature & Humidity: Operating Temperature: -4 °F to 140 °F (-20 °C to 60 °C) Humidity: 85% non-condensing

Rating/Material:

DIN rail mount: NEMA Type 1 Enclosure: NEMA Type 4/IP67, plastic Clear cover: six PG9 cord grips

Weight:

1 lb (0.5 kg)

Warranty:

One-year limited

Approvals:

cULus Recognized



Approvals





Standard Features

- · Space saving, vertical shape with DIN-rail mounting
- Displays weight, configuration, calibration and error conditions
- Theoretical calibration, real-weigh calibration, linearity calibration
- Push-button or preset tare
- Converts digital weight to analog output or optional DeviceNet™ or Profibus ™ or EtherNet/IP™ protocol
- Supports ASCII or MODBUS-RTU protocols
- Full-scale analog output with zero setting and PLC correction of analog signal
- Bit swapping selection for little endian and big endian format
- · Two digital inputs, three digital outputs
- One serial port, RS-232 transmit only, or RS-485 half duplex connection

Part Number/Price

Part #	Description	Est. Weight	Price
129396	SCT-20 converter with Analog Output	1 lb	\$600.00
129397	SCT-20 converter with DeviceNet™	1 lb	\$725.00
129558	SCT-20 converter with Profibus™ DP	1 lb	\$785.00
129398	SCT-20 converter with EtherNet/IP™	1 lb	\$1,000.00
132534	SCT-20 converter with Ethernet TCP/IP™	1 lb	\$1,055.00
156903	SCT-20 converter with Modbus/TCP	1 lb	\$1,000.00
131128	Installation manual	1 lb	\$25.00
	Installation manual	1 lb	

EtherNet/IP and Modbus output changed to Dual Port in 2019.

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	\$140.00
119244	24 VDC 1.3 A DIN rail mount power supply.	1 lb	\$160.00

Specifications

Power:

Input: 12 to 24 VDC

Power Consumption:

5 W

Excitation Voltage:

5 VDC, 120 mA, 8×350 ohm load cells

Analog Signal Input Range:

± 39 mV

Analog Signal Sensitivity:

0.3 μV/graduation minimum 1.0 µV/graduation recommended

A/D Sample Rate:

300 Hz

Resolution:

Internal: 16,000,000 counts Display: 999,999

System linearity:

± 0.01% full scale

Digital I/O:

2 inputs 5 to 24 VDC, 3 outputs 115 VAC/150 mA N.O. or N.C. (dry contact)

Communication Ports:

RS-232 transmit only, or RS-485 half duplex Supports up to 115,200 bps

Analog Output:

Opto isolated, 16 bit 0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC, 0-5 VDC (min 10 k ohm)

Display:

0.3 in (8 mm), six-digit, seven-segment LED Annunciators: Net, center of zero, stability, kg, g, lb

Keys/Buttons:

4-key membrane panel, tactile feel zero, tare, print, menu, escape, left and up navigation, enter

Dimensions

 $(W \times H \times D)$ 4.72 × 4.52 × 0.98 in (120 × 115 × 25 mm)

Temperature:

Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:

85% non-condensing

Rating/Material:

Enclosure: NEMA Type 1 plastic pluggable connectors

Weight:

1 lb (0.5 kg)

Warranty:

One-year limited

Approvals:

NTEP CC 14-083 cULus Recognized



Part Number/Price

Part #	Description	Est. Weight	Price
156794	SCT-30 converter with Analog Output	1 lb	\$475.00
156834	SCT-30 converter with Analog Output in enclosure	1 lb	\$630.00

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	\$140.00
119244	24 VDC 1.3 A DIN rail mount power supply.	1 lb	\$160.00
131129	Installation manual	1 lb	\$25.00
199707	DIN rail clip right & left end clamp		\$11.00

Standard Features

- LCD display
- Powers up to eight (350 ohm) load cells in parallel (with a 24-bit A/D converter)
- A/D converter 24-bit 4.8 kHz
- 16-bit analog output: 0-20 mA, 4-20 mA, 0-5 V, 0-10 V, \pm 5 V, and \pm 10 V
- · Mounting on Omega/DIN rail for back panel or junction box
- Diagnostic message for load cell disconnect and over-capacity errors

Specifications

Power:

Input: 12 to 24 VDC

Power Consumption:

Excitation Voltage:

5 VDC, 120 mA, 8×350 ohm load cells

Analog Signal Input Range:

± 39 mV

Analog Signal Sensitivity:

 $0.3 \, \mu V/graduation \, minimum$ 1.0 µV/graduation recommended

A/D Sample Rate:

300 Hz

Resolution:

Internal: 16,000,000 counts

System Linearity:

± 0.01% full scale

Communication Ports:

RS-485

Analog Output:

Opto isolated, 16 bit

0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC, 0-5 VDC (min 10 k ohm)

Display: Eight-digit alphanumeric tow line LCD, 5 mm high

Keys/Buttons:

Control knob and DIP switches

Dimensions:

(L × W × H) 3.74 × 3.54 × 2.36 in (95 × 90 × 60 mm)

Temperature:

Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:

85% non-condensing

Rating/Material:

DIN rail mount: NEMA Type 1

Weight:

1 lb (0.5 kg)

Warranty:

One-year limited

Approval:

cULus Recognized



Standard Features

- · LCD display
- Supports up to eight independent reading channels for load cells
- Displays weight, configuration, calibration and error conditions
- · DIN rail mounting
- Theoretical calibration, real-weight calibration and linear calibration
- · Push -button or preset tare
- Converts digital weight to analog output or optional DeviceNet™, Profibus™, EtherNet/IP™, PROFINET and Modbus TCP protocols
- Supports ASCII or MODBUS RTU protocols
- Bit swapping selection for little endian and endian format
- Three digital inputs, five digital outputs
- One serial port, RS-485 half duplex or RS-232 transmit-only connection

SCT-40AN only

• Full scale analog output with zero setting and PLC correction of analog signal

Part Number/Price

Part #	Description	Est. Weight	Price
170470	SCT-40 with Analog Output	1 lb	\$800.00
170471	SCT-40 with DeviceNet	1 lb	\$1,045.00
170472	SCT-40 with Profibus	1 lb	\$1,045.00
170473	SCT-40 with EtherNet/IP	1 lb	\$1,085.00
170474	SCT-40 with Ethernet TCP/IP	1 lb	\$1,045.00
170475	SCT-40 with Modbus TCP	1 lb	\$1,085.00
170476	SCT-40 with Profinet I/O	1 lb	\$1,050.00

EtherNet/IP and Modbus output changed to Dual Port in 2019

Options/Accessories

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mount power supply	1 lb	\$140.00
119244	24 VDC 1.3 A DIN rail mount power supply.	1 lb	\$160.00
131128	Installation manual	1 lb	\$25.00

Specifications

Power:

Input: 12 to 24 VDC

Power Consumption:

Excitation Voltage:

5 VDC, 240 mA, 16 x 350 ohm load cells

Analog Signal Input Range:

± 39 mV

Analog Signal Sensitivity:

 $0.3 \,\mu\text{V/graduation minimum}$ 1.0 µV/graduation recommended

A/D Sample Rate:

600 Hz

Resolution:

Internal: 16,000,000 counts Display: 999,999

System linearity:

± 0.01% full scale

Digital I/O:

3 inputs 5 to 24 VDC, 5 outputs, 115 VAC/150 mA

Communication Ports

RS-232 transmit only, or RS-485 half duplex Supports up to 115,200 bps

Analog Output (SCT-40AN only):

Opto isolated, 16 bit 0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC, 0-5 VDC (min 10 k ohm)

Display:

Backlit graphic LCD, transmissive 128×64 pixel resolution, 60×32 mm visible area

Keys/Buttons:

Five-key tactile keypad

test, zero, tare, print menu, escape, left and up, navigator, enter

Dimensions:

 $\begin{array}{l} (L\times W\times H) \\ 5.82\times 3.62\times 2.36 \ in \end{array}$ (148 × 92 × 60 mm)

Temperature:

Operating: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity:

85% non-condensing

Ratina/Material:

DIN rail mount: NEMA Type 1

Weight:

1 lb (0.5 kg)

Warranty:

One-year limited

Approvals:

cULus Recognized

Profibus® DP Interface



Part Number/Price

Part #	Description	Est. Weight	Price
68540	Profibus DP interface kit (internal), for 720i/920i indicators	3 lb	\$720.00

Options/Accessories

Part #	Description	Price
69948	Additional operating manual)	\$44.00

Standard Features

- DP intelligent device
- Standard GSD file download from product page
- 128 selectable addresses
- Auto baud rate up to 56K
- Registered with Profibus Trade Organization
- · Onboard diagnostic LEDs

Specifications

Power: 5 VDC, 350 mA

Fieldbus Interface:

Pluggable screw connector

Diagnostic LEDs:

Module status and network status

Dimensions:

2.00 × 1.90 × 0.75 in (51.8 × 48 × 19 mm)

Temperature Range:

14 °F to 158 °F (-10 °C to 70 °C)

FIELDBUS CARDS

Profinet® I/O Interface

920i®



PN 187816

Standard Features

- · CE marked and UL conformance
- · Onboard diagnostic LEDs
- · Control protocols

Specifications

Power:

5 VDC, 350 mA (jumper for 6 VDC)

Fieldbus Interface:

RJ-45

Diagnostic LEDs:

Link status and module status

Dimensions:

2.13 × 3.38 × 0.59 in (86 × 54 × 15 mm)

Temperature Range:

14 °F to 158 °F (-10 °C to 70 °C)

Part Number/Price

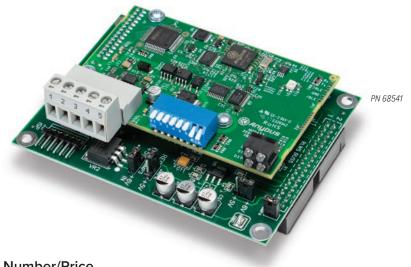
Part #	Description	Price
187816	Profinet IO interface kit for 920i indicator	\$895.00

Options/Accessories

Part #	Description	Price
187907	Additional operating manual	\$35.00

DeviceNet[™] Interface





Part Number/Price

Part #	Description	Est. Weight	Price
68541	DeviceNet interface kit for 720i/920i indicators	3 lb	\$720.00

Options/Accessories

Part #	Description	Price
69949	Additional operating manual	\$44.00

Standard Features

- · DeviceNet communication adapter
- · Polled I/O connection
- 125 Kbps, 250 Kbps, and 500 Kbps baud rate
- Onboard LED diagnostics
- · Floating-point commands support decimal points

Specifications

Power:

5 VDC, 270 mA

Fieldbus connector requires 24 VDC, ±10%

Communication Ports:

Twisted-pair cabling at 125, 250, or 500 Kbps Update rate is dependent on the configured baud rate and the number of network modes

Fieldbus Interface:

Pluggable screw connector

Diagnostic LEDs:

Module status and network status

Dimensions:

2.13 × 3.38 × 0.59 in $(86 \times 54 \times 15 \text{ mm})$

Temperature Range:

14 °F to 158 °F (-10 °C to 70 °C)

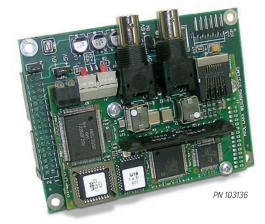
Galvanic Isolation:

Bus power is separated from other electronics via DC/DC converter. The send and receive signals are isolated via opto couplers.

FIELDBUS CARDS

ControlNet[™] Interface

920i®



Part Number/Price

Part #	Description	Price		
103136	ControlNet interface for 920i indicator	\$1,080.00		
Cables				
Consult fac	Consult factory for coaxial cable with cord grips			

Options/Accessories

Part #	Description	Price
103122	Additional operating manual	\$40.00

Standard Features

- Option for 920i®
- Polled I/O connection
- · Onboard LED diagnostics
- Floating-point commands support decimal points

Specifications

Power:

5 VDC, 350 mA (jumper for 6 VDC)

Fieldbus Interface:

BNC connector

Diagnostic LEDs:

Module status and network status

Dimensions:

 $2.13 \times 3.38 \times 0.59$ in (86 × 54 × 15 mm)

Temperature Range:

14 °F to 158 °F (-10 °C to 70 °C)



Part Number/Price

Part #	Description	Price
87803	EtherNet/IP protocol card for 720i/920i indicators	\$895.00

Options/Accessories

Part #	Description	Price
88537	Additional operating manual	\$40.00

Standard Features

- Industrial protocol for Allen-Bradley PLC and other EtherNet/IP compliant devices
- IP address settings configurable with onboard DIP switches, web page, or ARP or DHCP
- Supports Rockwell Automation® EtherNet/IP level
- CE marked and UL conformance
- · Onboard diagnostic LED
- Supports the Modbus/TCP protocol and conforms to Modbus/TCP specification 1.0

Specifications

Power:

5 VDC, 350 mA

Fieldbus Interface:

RJ-45

Diagnostic LEDs:

Module status and network status

Dimensions:

2.13 × 3.38 × 0.59 in (86 × 54 × 15 mm)

Temperature:

14 °F to 158 °F (-10 °C to 70 °C)

Ethernet TCP/IP Interface



PN 71986

Part Number/Price

Part #	Description	Est. Weight	Price
71986	Ethernet TCP/IP interface for 720i/920i indicators	3 lb	\$455.00
206271	Wireless Ethernet TCP/IP interface for 720i/920i indicators	3 lb	\$670.00
206272	Wireless Ethernet TCP/IP interface for 720i, CW-90 indicators and iQUBE ²	3 lb	\$610.00

Options/Accessories

Part #	Description	Price
72117	Additional operating manual	\$14.00
Cables		
72697	RJ-45 to RJ-45, straight, 7 ft length	\$40.00
78860	RJ-45 to RJ-45, cross over, 7 ft length	\$40.00

Standard Features

- Supports any serial devices with seven or eight data bits requiring Ethernet access
- Compact size for internal installation in 720i and 920i indicators
- Can be used in other applications requiring five-volt power supplied
- 10/100 megabyte through RJ45 connector or wireless option
- HTTP, serial, telnet and SNMP management

Specifications

Power: 5 VDC, 250 mA

Supported Protocols:

ARP, UDP, TCP, Telnet, SNMP, ICMP, HTTP, BOOTP, DHCP and TFTP

Network Interface:

Ethernet: RJ-45 (10/100 Base-T) or AUI

Serial Line Formats:

Characters: 7 or 8 data bits Stop bits: 1 or 2 Parity: odd, even, none

Data Rates:

Single port, 300 bps to 115.2 Kbps default 9,600

Dimensions:

2.00 × 1.90 × 0.75 in (52 × 49 × 19 mm)

Temperature Range: 41 °F to 122 °F (5 °C to 50 °C)



Profibus® DP Interface

880TM/882D/882IS/1280TM



Part Number/Price

Part #	Description	Est. Weight	Price
179163	Profibus DP interface kit, for 880 indicator	1 lb	\$600.00
165795	Profibus DP interface kit for 1280 indicator	1 lb	\$620.00
190534	Profibus DP interface kit for 882D and 882IS indicators	1 lb	\$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
156784	Additional operating manual	\$40.00

Standard Features

- · DP intelligent device
- Standard GSD file download from product page
- Selectable addresses
- Up to 12 Mbps baud rate
- Onboard diagnostic LEDs

Specifications

Power:

3.3 VDC, 250 mA

Connector Type:

DB9, pluggable

Diagnostic LEDs:

Module status and network status

Dimensions:

2.00 × 1.90 × 0.75 in (52 × 49 × 19 mm)

Temperature Range:

-40 °F to 158 °F (-40 °C to 70 °C)

PROFINET® Interface

880[™]/882D/882IS/1280[™]



Part Number/Price

Part #	Description	Est. Weight	Price
179160	PROFINET interface kit for 880 indicator (single port)	1 lb	\$600.00
205567	PROFINET interface kit for 880 indicator (dual port)	1 lb	\$805.00
165794	PROFINET interface kit for 1280 indicator (single port)	1 lb	\$620.00
190532	PROFINET interface kit for 882D and 882IS indicators	1lb	\$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
156781	Additional operating manual	\$40.00

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

Power:

3.3 VDC, 250 mA

Configuration:

GSDML file

Connector Type:

RJ-45 (Consult for dual-port version)

Diagnostic LEDs:

Module status and network status **IP Address Range:**

Full IP address range DHCP

Dimensions:

2.00 × 1.90 × 0.75 in (52 × 49 × 19 mm)

Temperature Range:

-40 °F to 158 °F (-40 °C to 70 °C)

DeviceNet® Interface

880[™]/882D/882IS/1280[™]



Part Number/Price

Part #	Description	Est. Weight	Price
179162	DeviceNet interface kit for 880 indicator	1 lb	\$600.00
165793	DeviceNet interface kit for 1280 indicator	1 lb	\$620.00
190531	DeviceNet interface kit for 882D and 882IS indicators	1 lb	\$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
156783	Additional operating manual	\$40.00

Standard Features

- · DeviceNet communication adapter
- 125 Kbps, 150 Kbps and 500 Kbps baud rate
- · Onboard diagnostic LEDs

Specifications

Power:

3.3 VDC, 250 mA

Connector Type:

Pluggable screw terminal

IP Address Range:

MAC ID 0 to 63

Diagnostic LEDs:

Module status and network status

Dimensions:

 $2.00 \times 1.90 \times 0.75$ in (52 × 49 × 19 mm)

Temperature Range:

-40 °F to 158 °F (-40 °C to 70 °C)

MODBUS®-TCP Interface

880[™]/882D/882IS/1280[™]



Part Number/Price

Part #	Description	Est. Weight	Price
179161	Modbus-TCP Interface kit for 880 indicator (single port)	1 lb	\$600.00
205568	Modbus-TCP Interface kit for 880 indicator (dual port)	1 lb	\$805.00
165796	Modbus-TCP Interface kit for 1280 indicator (single port)	1 lb	\$620.00
190533	Modbus-TCP Interface kit for 882D and 882IS indicators	1 lb	\$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
15678	Additional operating manual	\$40.00

Standard Features

- Active module with serial and parallel application interface
- · Complete Modbus-TCP server
- Up to 8 bytes of I/O data
- Transformer isolated interface 100 Mbps full duplex Ethernet
- Onboard diagnostic LEDs
- · CE and UL compliant

Specifications

Power Requirements: 3.3 VDC, 250 mA

Connector Type:

RJ-45

Diagnostic LEDs:

Link status, network status, module status

Dimensions:

2.00 × 1.90 × 0.75 in (51 × 48 × 19 mm)

Temperature:

-40 °F to 176 °F (-40 °C to 85 °C)

EtherNet/IP® Interface

880[™]/882D/882IS/1280[™]



Part Number/Price

Part #	Description	Est. Weight	Price
179159	EtherNet/IP interface kit for 880 indicator (single port)	1 lb	\$600.00
205566	EtherNet/IP Interface kit for 880 indicator (dual Port)	1 lb	\$805.00
165792	EtherNet/IP interface kit for 1280 indicator (single port)	1 lb	\$620.00
208129	EtherNet/IP Interface kit for 1280 indicator (dual Port)	1 lb	\$805.00
190530	EtherNet/IP Interface kit for 882D and 882IS indicators	1 lb	\$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
156861	Additional operating manual	\$40.00

Standard Features

- Industrial protocol for Allen-Bradley PLC and other EtherNet/IP compliant devices
- IP address settings configurable with web page, ARP or DHCP
- Supports Allen-Bradley EtherNet/IP
- · Onboard diagnostic LEDs
- CE marked and UL conformance
- AOP (880 only) or standard EDS file download

Specifications

Power Requirements:

3.3 VDC, 250 mA

IP Address Range: Full IP address range

Connector Type:

RJ-45

Diagnostic LEDs:

Module status and network status

Dimensions:

2.00 × 1.90 × 0.75 in $(52 \times 49 \times 19 \text{ mm})$

Temperature Range:

-40 °F to 158 °F (-40 °C to 70 °C)

EtherCAT® Interface

880[™]/882D/882IS/1280[™]



Part Number/Price

Part #	Description	Est. Weight	Price
179158	EtherCAT interface kit for 880 indicator	1 lb	\$600.00
179533	EtherCAT interface kit for 1280 indicator	1 lb	\$620.00
190535	EtherCAT interface kit for 882D and 882IS indicators	1 lb	\$620.00

NOTE: Kit includes module and carrier board

Options/Accessories

Part #	Description	Price
164394	Additional operating manual	\$40.00

Standard Features

- Two RJ-45 EtherCAT 100 Mbit/s ports available simultaneously
- Can be wired in several topologies including star, line or tree
- · Has built-in redundancy that compensates for potential breaks in wiring
- No network switches necessary, can be wired directly from device to device
- · Includes self-terminating network
- Onboard diagnostic LEDs
- CE, cULus and RoHS compliant

Specifications

Power:

3.3 VDC, 500 mA

Connector Type:

RJ-45 (dual port)

Diagnostic LEDs: Module status and network status

Dimensions:

2.04 × 1.97 × 0.86 in (52 × 50 × 22 mm)

Temperature Range:

-40 °F to 158 °F (-40° C to 70 °C)

TranSend™ MSI-7000

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
Transmitt	ers		
5-6 VDC F	Power Input		
159207	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,125.00
161949	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,275.00
176648	Four-channel transmitter, no relays, Wi-Fi	2 lb	\$1,175.00
176652	Four-channel transmitter, includes three coil relays, Wi-Fi	2 lb	\$1,350.00
85-265 V	AC Power Input		
159469	Four-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,175.00
161950	Four-channel transmitter, includes three coil relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,375.00
176647	Four-channel transmitter, no relays, Wi-Fi	2 lb	\$1,250.00
176651	Four-channel transmitter, includes three coil relays, Wi-Fi	2 lb	\$1,450.00
Receivers			
5-6 VDC F	Power Input		
160016	Four-channel receiver to provide an analog output signal: 4 to 20 mA, 0 to 20 mA, 0 to 5 VDC, 0 to 10 VDC, ±5 VDC, ±10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,350.00
160017	MSI-7000 four-channel receiver to provide RS232 serial output	2 lb	\$1,350.00
85-265 V	AC Power Input		
159477	Four-channel receiver to provide RS232 serial output	2lb	\$1,250.00
159475	Four-channel receiver to provide an analog output signal: 4 to 20 mA, 0 to 20 mA, 0 to 5 VDC, 0 to 10 VDC, \pm 5 VDC, \pm 10 VDC, includes three coil relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,625.00

Standard Features

- Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired
- Serial communication cable included with all transmitters
- · IP68 milled aluminum enclosure

Options

(Contact MSI for application consultation)

- · Multiple antenna selections
- 7 to 36 VDC power (input)

Specifications

Power:

5 to 6 VDC, 85 to 265 VAC

Excitation Voltage:

Transmitter: +4.8 VDC, $16 \times 350 \text{ ohm or}$ 32×700 ohm load cells

Standard Antenna:

1/2 wave 2dBi, articulated

Frequency:

Direct sequence spread spectrum at 2.4 GHz, 802.15.4

Effective Range:Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:

Full duplex RS-232

Circuit Protection:

RFI, EMI, ESD protection

Temperature:

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

Rating/Material:

IP68, milled aluminum enclosure

Additional RF Options:

Wi-Fi 802.15.4 **FHSS**

Warranty:

One-year limited

Options/Accessories

Part #	Description	Price
162172	Charger, TranSend™ for 6 V SLA battery	\$73.00
162173	Battery, TranSend 6 V SLA	\$145.00
162175	Enclosure, TranSend for 6 V SLA battery	\$365.00
160109	AC adapter, TranSend 6 V	\$62.00
143531	Power cord, 6 V SLA battery charger EU	\$33.00
143533	Power cord, 6 V SLA battery charger, Australia	\$54.00
143534	Power cord, 6 V SLA battery charger, UK	\$49.00
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	\$62.00
162178	Antenna extension kit, 6 ft coax cable	\$510.00
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$480.00
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	\$160.00
150964	RS-232 13 ft (4 m) serial cable with nine-pin (female) connector	\$210.00
150965	RS-232 13 ft (4 m) serial cable with nine-pin (male) connector	\$180.00
145085	RS-232 serial cable, unterminated	\$145.00

TranSend™ MSI-7001

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price	
Transmitt	ers			
5-6 VDC I	Power Input			
160330	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,050.00	
176655	Single-channel transmitter, no relays, Wi-Fi	2 lb	\$1,125.00	
7-36 VDC	Power Input			
160329	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,125.00	
176656	Single-channel transmitter, no relays, Wi-Fi	2 lb	\$1,175.00	
85-265 V	AC Power Input			
160328	Single-channel transmitter, no relays, RF 802.15.4, 2.4 GHz	2 lb	\$1,150.00	
176654	Single-channel transmitter, no relays, Wi-Fi	2 lb	\$1,225.00	
Receivers				
5-6 VDC I	Power Input			
160337	Single-channel receiver to provide a mV signal to a digital weight indicator, RF 802.15.4, 2.4 GHz	2 lb	\$1,125.00	
160334	Single-channel receiver to provide an analog output signal: 4 to 20 mA, 0 to 20 mA, 0 to 5 VDC, 0 to 10 VDC, ±5 VDC, ±10 VDC, RF 802.15.4, 2.4 GHz	2 lb	\$1,175.00	
161941	Single-channel receiver to provide RS232 serial output	2 lb	\$870.00	
7-36 VDC	Power Input			
160336	2 lb	\$1,225.00		
161939	Single-channel receiver to provide RS232 serial output	2 lb	\$990.00	
160333	Single-channel receiver to provide an analog output signal: 4 to 20 mA, 0 to 20 mA, 0 to 5 VDC, 0 to 10 VDC, ± 5 VDC, ± 10 VDC, RF 802.15.4, 2.4 GHz	2 lb	\$1,350.00	
85-265 V	AC Power Input			
160335	Single-channel receiver to provide a mV signal to a digital weight indicator, RF 802.15.4, 2.4 GHz			
161938	Receiver to provide RS232 serial output	2 lb	\$1,075.00	
160332	7001AN AC power	-	\$1,400.00	

Standard Features

- Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired
- Serial communication cable included with all transmitters
- IP68 milled aluminum enclosure

Options

(Contact MSI for application consultation)

· Multiple antennas

Specifications

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

Excitation Voltage:

Transmitter: +4.8 VDC, 16 × 350 ohm or 32 × 700 ohm load cells

Standard Antenna:

1/2 wave 2dBi, articulated

Frequency:

Direct sequence spread spectrum at 2.4 GHz, 802.15.4

Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:

Full duplex RS-232

Circuit Protection:

RFI, EMI, ESD protection

Temperature:

Operating:

-40 °F to 185 °F (-40 °C to 85 °C)

Rating/Material:

IP68, milled aluminum enclosure

Additional RF Options:

Wi-Fi 802.15.4 **FHSS**

Warranty:

One-year limited

TranSend™ MSI-7001

Wireless Load Cell Interface System

Options/Accessories

Part #	Description	Price
162177	Cordset, TranSend, pre-wired for use with single channel transmitters or non-relay based receivers	\$145.00
164865	Cable, 4 m, one-channel, mV/V output, LC input	\$145.00
165648	Cable, 5 m, one-channel, mV/V output, LC input	\$175.00
165651	Cable, 10 m, one-channel, mV/V output, LC input	\$240.00
162184	Load cell connector, TranSend, field wireable, 4 to 6 mm straight. For use with single channel transmitters and all receivers.	\$65.00
162185	Load cell connector, TranSend, field wireable, 6 to 8 mm straight. For use with single channel transmitters and all receivers.	\$65.00
162186	Load cell connector, TranSend, field wireable, 4 to 6 mm right angle. For use with single channel transmitters and all receivers.	\$65.00
162187	Load cell connector, TranSend, field wireable, 6 to 8 mm right angle. For use with single channel transmitters and all receivers.	\$65.00
145084	Cable, 2 m, one-channel, analog output	\$64.00
144400	Cable, 5 m, one-channel, analog output	\$100.00
168903	Cable, 10 m, one-channel, analog output	\$160.00
Consult	Straight connector, analog output, field wire able, 4 to 6 mm OD	Consult
Consult	Straight connector, analog output, field wire able, 6 to 8 mm OD	Consult
Consult	Right angle connector, analog output, field wire able, 4 to 6 mm OD	Consult
Consult	Right angle connector, analog output, field wire able, 6 to 8 m OD	Consult
162172	Charger, TranSend™ for 6 V SLA battery	\$73.00
162173	Battery, TranSend 6 V SLA	\$145.00
162175	Enclosure, TranSend for 6 V SLA battery	\$365.00
160109	AC adapter, TranSend 6 V	\$62.00
143531	Power cord, 6 V SLA battery charger EU	\$33.00
143533	Power cord, 6 V SLA battery charger, Australia	\$54.00
143534	Power cord, 6 V SLA battery charger, UK	\$49.00
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China	\$62.00
162178	Antenna extension kit, 6 ft coax cable	\$510.00
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$480.00
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable	\$160.00
150964	RS-232 13 ft (4 m) serial cable with nine-pin (female) connector	\$210.00
150965	RS-232 13 ft (4 m) serial cable with nine-pin (male) connector	\$180.00
145085	RS-232 serial cable, unterminated	\$145.00

TranSend™ MSI-7000HD

Wireless Load Cell Interface System



Part Number/Price

Part #	t # Description Est. Weigh		Price	
Transmitte	ers			
7-36 VDC	Power Input			
177944	Four-channel 7 to 36 VDC, three coil relays, 802.15.4		\$2,350.00	
177997	177997 Four-channel 7 to 36 VDC, three coil relays, Wi-Fi			
9-36 VDC	Power Input			
177945	Four-channel 9 to 36 VDC isolated, three coil relays, 802.15.4		\$2,450.00	
177998	Four-channel 9 to 36 VDC isolated, three coil relays, Wi-Fi		\$2,475.00	
85-265 VA	AC Power Input			
177942	177942 Four-channel 85 to 265 VAC, three coil relays, 802.15.4			
177995	Four-channel 85 to 265 VAC, three coil relays, Wi-Fi		\$2,425.00	

Options/Accessories

Part #	Description			
187424	Dual XBee option kit for 7000HD with TNC antenna			
162178	Antenna extension kit, 6 ft coax cable	\$510.00		
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits	\$480.00		
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable			
148624	RS-232/RS-485 serial cable			
143348	Cordset IP68 5-pin male	\$135.00		
141263	12V Battery Half Plate, requires separate power cable	\$1,550.00		

Standard Features

- · Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired
- · Serial communication cable included with all transmitters
- IP68 milled aluminum enclosure

Options

(Contact MSI for application consultation)

· Multiple antennas

Specifications

Power:

7 to 36 VDC, 9 to 36 VDC, 85 to 265 VAC

Excitation Voltage:

Transmitter: +4.8 VDC, 16 × 350 ohm or 32 × 700 ohm load cells

Standard Antenna:

1/2 wave 2dBi, articulated

Frequency:

Direct sequence spread spectrum at 2.4 GHz, 802.15.4

Effective Range:

Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:

Full duplex RS-232

Circuit Protection:

RFI, EMI, ESD protection

Temperature:

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

Rating/Material:

IP68, milled aluminum enclosure

Additional RF Options:

Wi-Fi 802.15.4 **FHSS**

Warranty:

One-year limited

TranSend™ MSI-7001HD

Wireless Load Cell Interface System



Part Number/Price

Part #	Description	Est. Weight	Price
Transmitte	rs		
5-6 VDC			
178010	Two-channel 5 to 6 VDC, 802.15.4		\$1,325.00
178018	Two-channel 5 to 6 VDC, Wi-Fi		\$1,425.00
7-36 VDC			
178011	Two-channel 7 to 36 VDC, 802.15.4		\$1,400.00
178019	Two-channel 7 to 36 VDC, Wi-Fi		\$1,425.00
9-36 VAC I	solated		
178012	Two-channel 9 to 36 VDC isolated, 802.15.4		\$1,425.00
178020	Two-channel 9 to 36 VDC isolated, Wi-Fi		\$1,500.00
85-265 VA	С		
178021	Two-channel 85 to 265 VAC, 802.15.4		\$1,450.00
178017	Two-channel 85 to 265 VAC, Wi-Fi		\$1,475.00

Options/Accessories

Part #	Description			
162172	Charger, TranSend™ for 6 V SLA battery	\$73.00		
162173	Battery, TranSend 6 V SLA	\$145.00		
162175	Enclosure, TranSend for 6 V SLA battery	\$365.00		
160109	AC adapter, TranSend 6 V	\$62.00		
143531	Power cord, 6 V SLA battery charger EU	\$33.00		
143533	Power cord, 6 V SLA battery charger, Australia			
143534	Power cord, 6 V SLA battery charger, UK			
160110	265 VAC to 6 VDC wall adapter US/UK/EU/AUS/China			
162178	Antenna extension kit, 6ft coax cable			
144345	30 m coaxial cable, for use with non-vehicle mount antenna kits \$48			
139313	Antenna kit, vehicle mount. 5 dbi with 5 m coaxial cable			
148624	RS-232/RS-485 serial cable			
143348	Cordset IP68, 5-pin	\$135.00		

Standard Features

- · Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired
- Serial communication cable included with all transmitters
- IP68 milled aluminum enclosure

(Contact MSI for application consultation)

Specifications

5 to 6 VDC, 7 to 36 VDC, 9 to 36 VDC, 85 to 265 VAC

Excitation Voltage:

Transmitter: +4.8 VDC, 16 × 350 ohm or 32×700 ohm load cells

Standard Antenna:

1/2 wave 2dBi, articulated

Frequency:

Direct sequence spread spectrum at 2.4 GHz, 802.15.4

Effective Range:Typically 100 to 300 ft, line of sight; for longer range consult factory

Communication Ports:

Full duplex RS-232

Circuit Protection:

RFI, EMI, ESD protection

Temperature:

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

Rating/Material:

IP68, milled aluminum enclosure

Additional RF Options:

Wi-Fi 802.15.4 FHSS

Warranty:

One-year limited





Part Number/Price

Part #	Description	Est. Weight	Price	
Transmitte	ers			
5 to 6 VD0	Power Input			
160331	Single-channel transmitter, 5 to 6 VDC no relays. RF 802.15.4, 2.4 GHz 5 to 6 VDC	2 lb	\$1,050.00	
Receivers	S			
5 to 6 VD0	Power Input			
160338	Receiver to provide a mV signal to a digital weight indicator. RF 802.15.4, 2.4 GHz 5 to 6 VDC power pnit			
Paired Se	et			
5 to 6 VD0	Power Input			
Includes one single-channel transmitter and one receiver, paired. Includes an RS-232 cable, a 2 m load cell cable and 2 m indicator cable/power source sold separately 5 lb		5 lb	\$2,275.00	

Options/Accessories

Part #	Description	Price
162172	Charger, Sendlt 6 V SLA battery	
162173	Battery, SendIt 6 V SLA	\$145.00
162175	Enclosure, SendIt for 6 V SLA battery	\$365.00
145548	Cord set, 13 ft (4 m)	Consult
150964	RS-232 13ft (4 m) serial cable with nine-pin (female) connector	\$210.00
150965	RS-232 13ft (4 m) serial cable with nine-pin (male) connector	\$180.00
160109	AC adapter, SendIt 6V	\$62.00
162177	Cordset. Pre-wired for use with single channel transmitters or non-relay based receivers	
162184	Load cell connector. Field wireable, 4 to 6 mm straight. For use with single channel transmitters	
162185	Load cell connector. Field wireable, 6 to 8 mm straight. For use with single channel transmitters	\$65.00
162186	Load cell connector. Field wireable, 4 to 6 mm right angle. For use with single channel transmitters	\$65.00
162187	Load cell connector. Field wireable, 6 to 8 mm right angle. For use with single channel transmitters	
162178	Antenna kit, remote standard antenna, 5 ft	

Standard Features

- Works with any basic digital weight indicator
- Excitation to load cell(s) provided by the transmitter, not the indicator
- Each transmitter/receiver set is individually paired and will not interfere with another set
- RS-232 cable included with transmitter and paired set

Specifications

Power:

5 to 6 VDC

Excitation Voltage:

Transmitter: +4.8 VDC, 16 × 350 ohm or 32 × 700 ohm load cells

Standard Antenna:

1/2 wave 2dBi, articulated

Frequency:

Direct sequence spread spectrum at 2.4 GHz, 802.15.4 license free

Effective Range:

Typically 100 to 300 ft For longer range, consult factory

Circuit Protection:

RFI, EMI, ESD protection

Communication Ports

Full duplex RS-232

Temperature:

-40 °F to 185 °F (-40 °C to 85 °C)

Rating/Material:

NEMA Type4 (IP66), aluminum black powder coated (excludes wall cube model)

Warranty:

Two-year limited



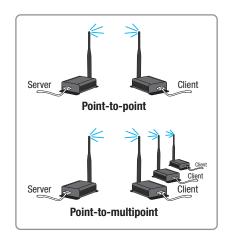
Part Number/Price

Part #	Description	Price		
86134	ConnexLink RF device 900 MHz RF device server/client (requires minimum of 2)			
105776	ConnexLink Pro 900 MHz 1W, wireless transceiver with large buffer			
110538	ConnexLink FRP enclosure with heater			
110539	ConnexLink Pro enclosure with heater	\$1,565.00		
129662	Paired ConnexLink	\$735.00		

Options/Accessories

Part #	Description	Price
78827	Power supply, 115 VAC input/6 VDC output	\$65.00
103979	Antenna 1/2 Wave, 2 dBi, 7 in for 900 MHz radios	\$55.00
119448	Yagi antenna	\$165.00
119449	Cable, Yagi antenna 20 ft*	\$95.00
22436	RS-232 nine-pin female to blunt end	\$70.00
98084	DC power cable option	\$15.75

^{*} max length per manufacturer specs



Standard Features

- Durable industrial-grade enclosure with mounting flanges
- Reliable communications up to 115 to 200 kbps
- · Supports point-to-point and point-tomultipoint applications

Specifications

Power:

Input: 7 to 18 VDC Output: 5 to 1,000 mW variable

Frequency Band:

902 to 928 MHz

Modulation:

FHSS FSK

Interface:

Standard: RS-232 ConnexLink PRO: RS-485

Serial Interface Data Rate:

Up to 115 to 200 kbps

Current Draw (at 12 VDC):

RF: Standard Connexlinks: 400 mA Pro: 325 mA TX, 20 mA RX

Power Supply:

AC transformer via 6 ft cable (183 cm)

Electrical Requirements:

Line voltage 100 to 120 V; frequency 50/60 Hz (240 V outside the US)

Channels:

32 selectable channels

Security:

1-byte system ID, DES

Sensitivity:

-99dB at full RF data rate

Range (line-of-sight):

Up to 20 miles (32 km)

Dimensions:

4.75 × 2.75 × 1.17 in (121 × 70 × 30 mm)

Temperature:

-40 °F to 176 °F (-40 °C to 80 °C)

Humidity:

10% to 90% non-condensing

Weight:

< 6 oz (< 170 g)

Antenna Connector:

Reverse polarity SMA jack (female)

Industrial Broadband

Wireless Ethernet





Part Number/Price

Part #	Description	Price
166630	Industrial hot spot, 802.11abg*	\$2,155.00
161954	Industrial hot spot in FRP enclosure*	\$3,195.00
161955	Paired radios for serial data tunneling*	\$4,325.00

*Special ordered power supplies and antennas required

Dimensions

FRP Enclosure			
Α	8.5 in (216 mm)	В	10.5 in (267 mm)



161954 Industrial Hot Spot

Standard Features

- · Serial and Ethernet connectivity
- Configures as 802.11 a/b/g access point, wireless bridge, wireless repeater and client
- Secure WPA2/128 bit encryption
- Dual band 2.4 GHz or 5 GHz bands
- · Robust design for extreme temperatures (-40 °C to 75 °C) high vibration/shock and hazardous locations (UL Class 1, Division 2, Atex Zone 2)

Specifications

Frequency Band (varies by country):

2.412 GHz to 2.462 GHz (FCC) 2.412 GHz to 2.472 GHz (ETSI) 5.150 GHz to 5.250 GHz (FCC/ETSI) 5.725 GHz to 5.850 GHz (FCC)

Wireless Standards:

802.11a, 802.11b, 802.11g and 802.11i

Programmable (varies by country): 2.4 GHz: up to 100 mW (20 dBm)

5 GHz: up to 64 mW (18 dBm)

Channel Data Rates (modulation):

802.11b, 11, 5.5, 2, 1 Mbps (DSSS, BPSK, QPSK, CCK) 802.11g: 54, 48, 36, 24, 18,12, 9, 6 Mbps (OFDM) 802.11a: 54, 48, 36, 24, 18, 9, 6 Mbps (OFDM)

Receiver Sensitivity (Typical):

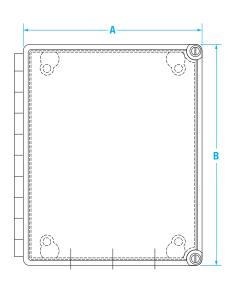
- -90 dBm at 1 Mbps
- -85 dBm at 11 Mbps
- -82 dBm at 24 Mbps
- -75 dBm at 54 Mbps

Channels Selection (varies by country):

1 to 13 (802.11a)

Security:

WPA2 - 802.11i with 128 bit AES-CCM legacy WPA TKIP, WEP support MAC ID filter, admin password



Visible Lights and Audible Alarms



Part Number/Price

Part #	Description	Price
Visible Lig	hts and Audible Alarms	
22838	Buzzer, 80 dB, steady	\$145.00
22839	Buzzer, 80 dB, pulse	\$145.00
156106	Buzzer box, 115 VAC, FRP enclosure	\$795.00
43931	Strobe lights, red	\$225.00
43930	Strobe lights, amber	\$225.00

Manual Pushbuttons/Pushbutton Switches



- · Key switches
- · Lighted pushbuttons
- · Pilot lights
- Two- and three-position switches
- · Colored pushbuttons
- Emergency stop mushroom switches
- · Custom legend plates

Part Number/Price

Part #	Description	Price		
Manual Pushbuttons/Pushbutton Switches				
N/A	Operator and contact block combinations	Consult		

Nanostation



- · Ethernet wireless bridge
- 5 GHz operating frequency
- RJ45 network interface
- PoE 2-pair (4, 5+: 7, 8 return) power method
- 24 V, 03 A gigabit PoE supply included
- 22 to 27 VDC voltage range
- Temperature: -40 °F to 158 °F (-40 °C to 70 °C)
- Humidity: 5% to 95% noncondensing

Part Number/Price

Part #	Description	Price
204477	Nanostation	\$395.00

USB to Serial Converter/Adapter Serial Adapters



Standard Features

- Portable design—no AC power required
- Simple plug-and-play setup
- Supports data transfer rates of more than 500 kbps
- · Hot swappable

Specifications

Data Transfer Rate:

More than 500 kbps

LED:

Data transfer/handshaking (orange)

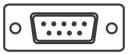
Power Consumption: 450 Mw USB

Specifications: V1.1 compliant

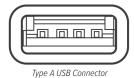
Part Number/Price

Part #	Description	Est. Weight	Price
178501	Adapter,USB Serial FTDI US232R-100, 3.28 ft, iDim Series for use with RLWS indicator and Postal Scales	-	Consult
22436	Cable DB9F to blunt end, 6 ft	1 lb	Consult

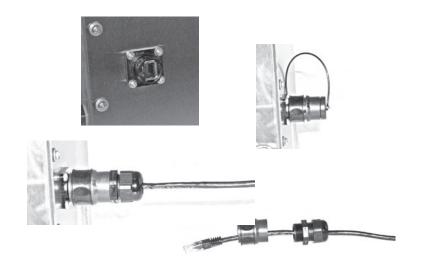
DB-9 PIN Assignments:				
PIN	Assignment	PIN	Assignment	
1	CD	6	DSR	
2	RXD	7	RTS	
3	TXD	8	CTS	
4	DTR	9	RI	
5	GND			



DB9 (Male) Connector



Amphenol® RJF 544 Harsh Environment Ethernet Connection System



Part Number/Price

Part #	Description	Price
87326	RJF 544 kit	\$200.00
87285	Square flange female connector	\$45.00
87286	Dust cap for harsh environment receptacles	\$55.00
87287	Gasket for harsh environment receptacles	\$5.25
87288	Ethernet plug	\$45.00
87289	Dust cap for harsh environment plugs	\$65.00

Standard Features

- Allows an Ethernet Class D/Category 5e connection for 10Base-T, 100Base-TX, or 1000Base-T networks in harsh environments
- Sealed against fluids and dusts (IP67)
- · Shock, vibration and traction resistant
- · No cabling operation in the field
- · No tools required
- Improved EMI protection
- Uses a standard RJ-45 cordset in protective composite plug to protect from shocks, dust and fluids
- In-field cabling and grounding not necessary

Specifications

Data Transmission: 10Base-T, 100Base-TX and 1000Base-T networks Category 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801

Mechanical:

Quick push/pull coupling RJ-45 cordset retention in the plug: 100N in the axis Mating cycles: 500 min

Environmental Protection:

Sealing: IP67 Salt Spray: > 1000h Fire retardant/low smoke: UL94 VO and NFF 16 16102, DIN 5510-2 Vibrations: 10 to 500 Hz, 10g, 3 axes: no discontinuity > 10 nanos Thermal Shock: 5 cycles at -40 $^{\circ}$ C / +100 $^{\circ}$ C

Temperature:

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

Applications:

Telecom equipment, video control, robotics, industrial process control, CNC machines, motion control, tele-maintenance

AbleCable®

RS-232/USB Serial Smart Cable Direct, Keyboard Input Direct



Part Number/Price

Part #	Description	Est. Weight	Price
119919	RS-232/USB serial cable	1 lb	\$190.00
132452	RS-232/USB serial cable plus Bluetooth®	1 lb	\$275.00

Options/Accessories

Part #	Description	Price
119064	Slimline null modem, gender changer DB9 female to female	\$12.50
22436	Blunt-end to DB9 female, straight cable	\$70.00
50749	DB9 female to DB9 female	\$60.00
130789	Null model DB9 adapter female to male	\$14.50

Standard Features

- Converts serial data such as bar code reader or scale into keyboard input to software program
- Works with PC and MAC® computers
- Requires no driver installation (identifies itself as additional HID keyboard)
- Cable draws power from USB port (no external power supply needed)
- Test cable to be connected with adapter scale cable or connector
- Bluetooth® version allows connection to devices like iPad®, Android® tablets and smart cell phones

Specifications

Power:

USB power, no external power supply

Baud Rate:

9600

Color:

Black

Cable Length:

74 in (1,880 mm)

Bluetooth Cable Length:

16 in (406 mm)

Host:

PC and MAC compliant

Connection:

DB9 male connector, Pin 2 RX, Pin 3 TX and Pin 5 Ground USBA connector

go-between™ Data Capture and Storage



Part Number/Price

Part #	Description	Price
153265	go-between board	\$435.00
153266	go-between industrial enclosure	\$630.00
153267	go-between desk enclosure	\$525.00
158778	go-between desk enclosure, EU power supply	\$525.00

Options and Accessories

Part #	Description	Price
154797	Adapter, power 5 VDC 2A 90-264 VAC, U.S. plug, UL/cUL	\$37.00
170935	Overlay, desk	\$79.00

Standard Features

- LED onboard for testing data transmission
- Captures data and stores it on a USB flash drive (up to 8 GB not included)
- Transfer data to your PC using the USB flash drive
- Text file examples (actual text will be dependent on transmitted file)
- 02:50PM 11/13/2012 GROSS 58 lb
- 02:50PM 11/13/2012 GROSS 68 lb

Specifications

Power:

Requires 5 VDC

Baud Rate:

9600

Data Bits:

Parity:

None

Customer Supplied:

Power and USB flash drive

Industrial Enclosure Option:

7.5 × 7.5 × 4.5 in (19 × 19 × 12 cm) Latch for lock

Warranty:

One-year limited

