880/880 Plus Performance™ Series

Digital Weight Indicator/Controller



Standard Features

- LED display, 0.56 in (14 mm), six-digit, 14-segment
- RS-232 or RS-485 serial port
- . USB device port connects directly to a PC
- USB host port connects to a keyboard or flash drive
- Ethernet TCP/IP polled or continuous
- · AC or DC models
- Built-in DIN-rail clips on controller box (panel mount)
- Display and controller can be separated up to 250 ft (panel mount)
- · Hardware slot for one option card
- Operator functions through menu key for audit trail, preset tare, accumulator, time & date and setpoints
- Audit trail tracking for configuration and calibration changes. Password protection for user and configuration changes.
- 20 setpoints with latched batch engine or unlatched outputs
- Four onboard digital I/O channels
- Programmable ticket formats up to 1,000 characters for header text, gross, net, accumulator and setpoints
- Local/remote operation
- · Multi-range or multi-interval weighing
- · Filter settings for light, medium and heavy noise

Options/Accessories

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

Specification Options

Analog Output:

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

Relay Board:

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

EtherNet/IP Interface:

According to EN 50325-2

Profinet Interface:

According to IEC 61784 (CPF-3/3)

Modbus/TCP Interface:

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

DeviceNet Interface:

According to EN 50325-2

Profibus DP Interface:

According to EN 50170 EtherCAT According to IEEE 802.3



Approvals









Measurement Canada Approved

Specifications

Power:

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

Power consumption: AC: 15WDC: 20W

Excitation Voltage:

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

Analog Signal Input Range:

-45 mV to 45 mV

Analog Signal Sensitivity:

0.3 µV/graduation minimum at 7.5 Hz;

1.0 µV/graduation typical at 120 Hz (manual only)

4.0 µV/graduation typical at 960 Hz (manual only)

1.0 µV/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

Internal: Eight million counts 23 bit

Display: 100,000

System Linearity:

± 0.01% full scale

Digital I/O:

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

batching run

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

Status Annunciators:

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

Display:

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

Keys/Buttons:

Flat membrane panel, tactile feel

Temperature Range

Certified: $14^{\circ}F$ to $104^{\circ}F$ (- $10^{\circ}C$ to $40^{\circ}C$) Operating: $14^{\circ}F$ to $122^{\circ}F$ (- $10^{\circ}C$ to $50^{\circ}C$)

Dimensions (W x H x D):

Panel: 6 in x 4 in x 4.95 in (152 mm x 102 mm x 126 mm)

Universal: 9.87 in x 9.38 in x 4.33 in (251 mm x 238 mm x 110 mm)

Weight:

Panel: 2.5 lb (1.2 kg); Universal: 12 lb (5.4 kg)

Rating/Material:

Display bezel NEMA Type 4X, IP69K Panel display: stainless steel Universal: stainless steel Controller box: aluminum

Warranty:

Two-year limited warranty

EMC Immunity:

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

Approvals:

NTEP CC 13-080 Class III/IIIL, 10,000d Measurement Canada AM-5931C Class III/IIIHD, 10,000d OIML R76/1992-GB1-04.02 Class III, 10,000d EU Test Certificate TC8463 UL/cUL Listed (universal) UL/cUL Recognized (panel mount)

CE Marked

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

Part Number/Price

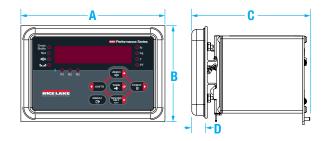
Part #	Description	Est. Weight	Price
880 Panel	Mount AC Powered*		
151674	Display only	2 lb	\$315.00
177977	115-230 VAC, controller only	4 lb	\$775.00
177976	115-230 VAC	4 lb	\$1,050.00
177979	115-230 VAC with analog output	4 lb	\$1,350.00
177980	115-230 VAC with relay board	4 lb	\$1,350.00
177982	115-230 VAC with EtherNet/IP	4 lb	\$1,600.00
177983	115-230 VAC with ProfiNet	4 lb	\$1,600.00
177984	115-230 VAC with Modbus/TCP	4 lb	\$1,600.00
177985	115-230 VAC with Profibus DP	4 lb	\$1,600.00
177986	115-230 VAC with DeviceNet	4 lb	\$1,600.00
179155	115-230 VAC with EtherCAT	4 lb	\$1,600.00
880 Panel	Mount DC Powered*		
177987	12-24VDC	4 lb	\$1,150.00
177988	12-24 VDC controller only	4 lb	\$875.00
880 Plus l	Iniversal AC Powered		
177989 [†]	115 VAC	8 lb	\$1,275.00
178496 [†]	115 VAC, with analog	8 lb	\$1,575.00
178499 [†]	115 VAC, with relay board	8 lb	\$1,575.00
179147 [†]	115 VAC with EtherNet/IP	8 lb	\$1,825.00
179148 [†]	115 VAC with Profinet	8 lb	\$1,825.00
179149 [†]	115 VAC with Modbus/TCP	8 lb	\$1,825.00
179150 [†]	115 VAC with Profibus	8 lb	\$1,825.00
179152 [†]	115 VAC with DeviceNet	8 lb	\$1,825.00
179154 [†]	115 VAC with EtherCAT	8 lb	\$1,825.00
177990 ^{††}	115-230VAC	8 lb	\$1,275.00
178497 ^{††}	115-230 VAC with analog	8 lb	\$1,575.00
178500 ^{††}	115-230 VAC, with relay board	8 lb	\$1,575.00
	Iniversal DC Powered		
178495	12-24VDC	8 lb	\$1,375.00

*Power cable not included

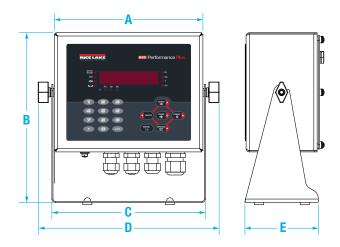


Options/Accessories

Part #	Description	Price		
Option Cards (5.5 in CPU only)				
179156	Analog output, 0-10 VDC, 0-20 mA, 4-20 mA	\$300.00		
179157	Relay board, four dry contact outputs	\$300.00		
Network	Cards			
179158	EtherCAT interface	\$550.00		
179159	EtherNet/IP® interface	\$550.00		
179160	ProfiNet® interface	\$550.00		
179161	Modbus/TCP® interface	\$550.00		
179162	DeviceNet® interface	\$550.00		
179163	Profibus DP interface	\$550.00		
Hardwar	e			
153660	Metrological sealing kit	\$10.00		
158404	Adapter plate for IQ310 and 520 replacement	\$60.00		
101923	Relay box enclosure, does not include relay	\$235.00		
177850	Panel mount kit for universal enclosure	\$150.00		
180835	Backplate with RJ-45 receptacle	\$90.00		
15436	Power cord, pigtail with US NEMA 5-15 plug	\$17.00		
105382	Power cord, pigtail with Euro Plug CEE 7/7	\$17.00		



880 Panel Mount Dimensions			
Α	6.0 in (152 mm)	C	4.95 in (126 mm)
В	4.0 in (102 mm)	D	0.58 in (14 mm) BEZEL DEPTH



880 Universal Dimensions			
Α	8.10 in (206 mm)	D	9.87 in (248 mm)
В	9.38 in (235 mm)	E	4.0 in (102 mm)
С	8.37 in (213 mm)		

Options/Accessories

Part #	Description	Price		
Cables				
152434	Cable, USB A to micro A shielded, 2 meters	\$15.00		
156817	Cable, Ethernet TCP/IP CAT.5E shielded RoHS compliant blue RJ45 connectors 1 meter	\$30.00		
156818	Cable, Ethernet TCP/IP CAT.5E shielded RoHS compliant blue RJ45 connectors 3 meters	\$37.00		
156821	Cable, Ethernet TCP/IP CAT.5E shielded RoHS compliant blue RJ45 connectors 5 meters	\$45.00		
Manuals and Software				
77925	Revolution [™] scale software	\$35.00		
152240	Operators manual	\$25.00		
158387	Technical manual	\$25.00		
Primary Component Parts (5.5 in CPU only)				
131740	Overlay, panel mount, six-key	\$55.00		
163986	Overlay, universal with numeric keypad	\$65.00		
131598	Display board	\$200.00		
175603*	Power supply, 100-240 VAC	\$175.00		
175604*	Power supply, 12-24VDC	\$275.00		
175109*	CPU board	\$525.00		
* Design ch	nange in 2017 to 5.5 in wide controller, see replacement parts catalog	for the		

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