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
- 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

Option Specifications

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





Measurement Canada Approved









Specifications

Power:

Line voltages: 100-240 VAC Frequency: 50-60 Hz DC voltages: 9-36 VDC

Power consumption: AC: 15W DC: 20W

Excitation Voltage:

10 VDC, 16 x 350 Ω or 32 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;

 $1.0\,\mu\text{V/graduation}$ typical at 120 Hz (manual only)

 $4.0\,\mu\text{V/graduation}$ typical at 960 Hz (manual only)

1.0 µV/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

Internal: 8 million counts/8,000,000 23 bit

Display: 100,000

System Linearity:

± 0.01% full scale

Digital I/O:

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

Communication Ports:

RS-232 full duplex or RS-485 half duplex; USB 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°F to 104°F (-10°C to 40°C) Operating: 14°F to 122°F (-10°C to 50°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:

CE Marked

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)



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

Part Number/Price

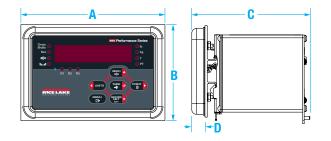
Part #	Description	Est. Weight	Price
880 Panel	Mount AC Powered*		
151674	Display only	2 lb	Consult
177977	115-230 VAC, controller only	4 lb	Consult
177976	115-230 VAC	4 lb	Consult
177979	115-230 VAC with analog output	4 lb	Consult
177980	115-230 VAC with relay board	4 lb	Consult
177982	115-230 VAC with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

*Power cable not included

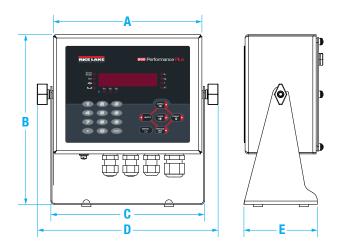


Options/Accessories

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



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

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Part #	Description	Price			
Cables					
152434	Cable, USB A to micro A shielded, 2 meters	Consult			
156817	Cable, Ethernet TCP/IP CAT.5E shielded RoHS compliant blue RJ45 connectors 1 meter	Consult			
156818	Cable, Ethernet TCP/IP CAT.5E shielded RoHS compliant blue RJ45 connectors 3 meters	Consult			
156821	Cable, Ethernet TCP/IP CAT.5E shielded RoHS compliant blue RJ45 connectors 5 meters	Consult			
Manuals a	and Software				
77925	Revolution [™] scale software	Consult			
152240	Operators manual	Consult			
158387	Technical manual	Consult			
Primary C	omponent Parts (5.5 in CPU only)				
131740	Overlay, panel mount, six-key	Consult			
163986	Overlay, universal with numeric keypad	Consult			
131598	Display board	Consult			
175603*	Power supply, 100-240 VAC	Consult			
175604*	Power supply, 12-24VDC	Consult			
175109*	CPU board	Consult			
* Design ch	* Design change 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.