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

Relav 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

Specifications

Power:

Line voltages: 100-240 VAC

- Frequency: 50-60 Hz DC voltages: 12-24VDC
- 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

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:

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 0IML R76/1992-GB1-04.02 Class III, 10,000d EU Test Certificate TC8463 UL/cUL Listed (universal) UL/cUL Recognized (panel mount) CE Marked











Measurement

Canada



OIML









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

Part Number/Price

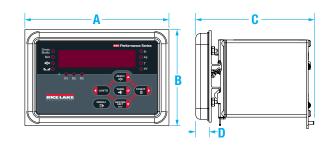
Part #	Description	Est. Weight	Price
880 Pane	I Mount AC Powered*		
151674	Display only	2 lb	Consult
177977	115-230 VAC, controller only	4 lb	Consult
177976	115-230VAC	4 lb	Consult
177979	115-230 VAC with analog output	4 lb	Consult
177980	115-230 VAC with relay board	4 lb	Consult
177982	115-230 VAC with 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 Pane	I Mount DC Powered*		
177987	12-24 VDC	4 lb	Consult
177988	12-24 VDC controller only	4 lb	Consult
880 Plus	Universal AC Powered		
177989 [†]	115VAC	8 lb	Consult
178496 [†]	115 VAC, with analog	8 lb	Consult
178499 [†]	115VAC, 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 ^{††}	115-230VAC	8 lb	Consult
178497 ^{††}	115-230 VAC with analog	8 lb	Consult
178500 ^{††}	115-230 VAC, with relay board	8 lb	Consult
880 Plus	Universal DC Powered		
178495	12-24 VDC	8 lb	Consult
*Douvor ook	le not included		

*Power cable not included

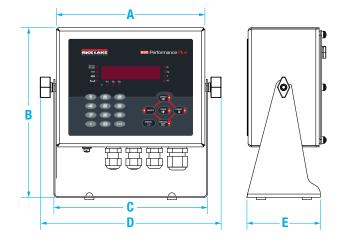
(B B) † NEMA 5-15 plug (O) †† CEE 7/7 plug (Euro)

Options/Accessories

Part #	Description	Price		
Option Cards (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		
Hardware				
153660	Metrological sealing kit	Consult		
158404	Adapter plate for IQ310 and 520 replacement	Consult		
101923	Relay box enclosure, does not include relay	Consult		
177850	Panel mount kit for universal enclosure	Consult		
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				
	А	6.0 in (152 mm)	С	4.95 in (126 mm)
	В	4.0 in (102 mm)	D	0.58 in (14 mm) BEZEL DEPTH



88	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		
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 and Software			
77925	Revolution [™] scale software	Consult	
152240	Operators manual	Consult	
158387	Technical manual	Consult	
Primary Component 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.