880/880* Plus Performance™ Series

Digital Weight Indicator/Controller

880 Plus Universal

880 Panel Mount

** Because the 880 board design has changed, there are new part numbers. Please be advised, past generation board parts are not interchangeable with the new boards.*

Standard Features

- LED display, 0.56 in (14 mm), 6-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
- 4 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

Approvals

Measurement Canada Approved

Options/Accessories

- Metrological hardware sealing kit
- Adapter plate for converting 310A and 520 panel mounts

Specification Options

Analog Output:
16-bit resolution, 0-10 VDC, 0-20 mA, 4-20 mA

Relay Board:
4 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:
Input voltages: 100-240 VAC; 9-36 VDC
Input frequency: 47-63 Hz

Power Consumption:
AC: 15 watts; DC: 20 watts

Excitation Voltage:
10 VDC 8 x 350 Ω (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
4.0 µV/graduation typical at 960 Hz; A/D

Sample Rate:
7.5 to 960 Hz, software selectable

Resolution:
Internal: 8 million counts 23 bit weight display: 100,000

System Linearity:
± 0.01% full scale

Digital I/O:
4 I/O onboard primary keys, pseudo functions, batching functions

Circuit Protection:
18 KV, 10 V/meter

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

Display:
LED, 0.56 in (14 mm), 6-digit, 14-segment with decimal or comma

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

Keyboard:
Flat membrane panel, tactile feel

Operating Temperature:
Legal: 14° F to 104° F (-10° C to 40° C)
Industrial: 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 x 9.38 x 4.33

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

Rating:
Display bezel NEMA Type 4X, IP69K

Material:
Panel display: stainless steel
Universal: stainless steel
Controller box: aluminum

Warranty:
Two-year limited warranty

Approvals:
NTEP CC 13-080 Class III/IIIL, 10,000d
Measurement Canada AM-5931C Class III/IIIHD, 10,000d
OIML TC 8463 T 8464, Class III, 10,000d
CE Mark
UL/c-UL Listed (universal)
UL Recognized (panel mount)

An ISO 9001 Registered Company © 2017 Rice Lake Weighing Systems 01/17 Prices and specifications subject to change without notice. Visit ricelake.com for current prices.

880/880 Plus Performance™ Series

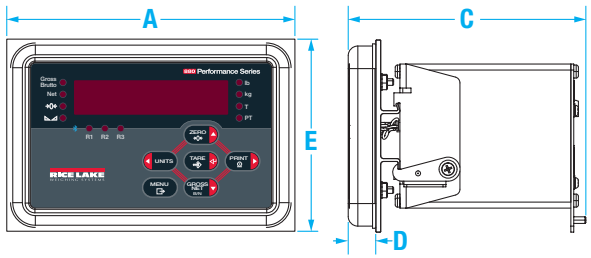
Digital Weight Indicator/Controller

Part Number/Price

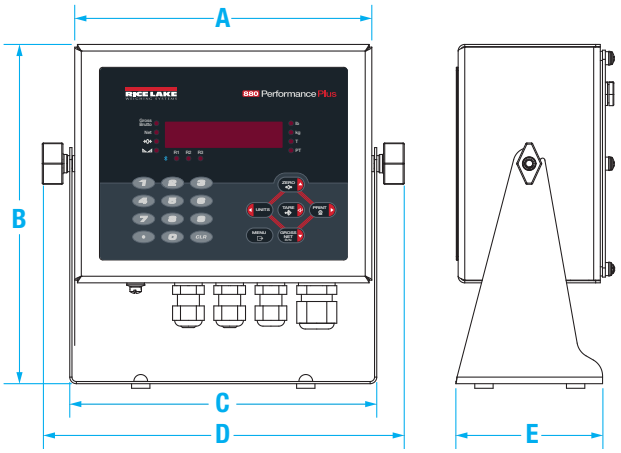
PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
880 Panel Mount AC Powered*			
151674	880 display only	2 lb	Consult
177977	115-230 VAC, controller only	4 lb	Consult
177976	115-230 VAC with display	4 lb	Consult
177979	115-230 VAC with analog output	4 lb	Consult
177980	115-230 VAC with relay board	4 lb	Consult
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	9-36 VDC with display	4 lb	Consult
177988	9-36 VDC controller only	4 lb	Consult
880 Plus Universal AC Powered			
177989†	115 VAC, US plug	8 lb	Consult
178496†	115 VAC, US Plug with analog	8 lb	Consult
178499†	115 VAC, US Plug 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, Euro plug	8 lb	Consult
178497††	115-230 VAC Euro plug with analog	8 lb	Consult
178500††	115-230 VAC, Euro plug with relay board	8 lb	Consult
880 Plus Universal DC Powered			
178495	9-36 VDC	8 lb	Consult

**Power cable not included*

† NEMA 5-15 plug *†† CEE 7/7 plug*



880 PANEL MOUNT DIMENSIONS			
A	6.0 in (152 mm)	C	4.95 in (126 mm)
B	4.0 in (102 mm)	D	0.58 in (14 mm) **BEZEL DEPTH**



880 UNIVERSAL DIMENSIONS			
A	8.10 in (206 mm)	**D**	9.87 in (248 mm)
B	9.38 in (235 mm)	**E**	4.0 in (102 mm)
C	8.37 in (213 mm)		

Options/Accessories

PART #	DESCRIPTION	PRICE
Option Cards		
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
Cables		
15436	Power cord, pigtail	Consult
105382	Power cord, 230 VAC	Consult

Options/Accessories

PART #	DESCRIPTION	PRICE
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 meters	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		
131740	Overlay, panel mount, 6-key	Consult
163986	Overlay, universal with numeric keypad	Consult
131598	Display board	Consult
175603	Power supply, 85-265 VAC	Consult
175604	Power supply, 9-36 VDC	Consult
175109	CPU board	Consult

www.ricelake.com | Phone: 800-472-6703

An ISO 9001 Registered Company ©2017 Rice Lake Weighing Systems 01/17 Prices and specifications subject to change without notice. Visit ricelake.com for current prices.