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

880 Plus Universal

880 Panel Mount

Board Information:
Previous green CPU board is 5.0" wide
Current blue CPU board is 5.5" wide

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 310 A and 520 panel mounts
- Panel mount kit for universal enclosure
- Truck in/out program for 100 vehicle IDs

Approvals

NTEP

Measurement
Canada
Approved

OIML

CE

c (UL) US
LISTED

c RU US

Specifications

Power:
Line voltages: 100-240 VAC
Frequency: 50-60 Hz
DC voltages: 12-24 VDC
Power consumption: AC: 15 W, DC: 20 W

Excitation Voltage:
10 VDC, 16 x 350Ω or 32 x 700Ω 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 million counts/8,000,000 23 bit
Display: 999,999

System Linearity:
± 0.01% full scale

Digital I/O:
Four I/O onboard (max), 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/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

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, Type 12, and IP69K
Panel display: stainless steel
Controller box: aluminum
Universal: stainless steel

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

Part Number/Price

| Part #	Description	Est. Weight	Price
880 Panel Mount AC Powered*			
177976	115-230VAC	4 lb	Consult
177979	115-230VAC with analog output	4 lb	Consult
177980	115-230VAC with relay board	4 lb	Consult
177982	115-230VAC with EtherNet/IP	4 lb	Consult
177983	115-230VAC with ProfiNet	4 lb	Consult
177984	115-230VAC with Modbus/TCP	4 lb	Consult
177985	115-230VAC with Profibus DP	4 lb	Consult
177986	115-230VAC with DeviceNet	4 lb	Consult
179155	115-230VAC with EtherCAT	4 lb	Consult
880 Panel Mount DC Powered*			
177987	12-24VDC	4 lb	Consult
880 Plus Universal AC Powered			
177989 †	115VAC	8 lb	Consult
178496 †	115VAC, with analog output	8 lb	Consult
178499 †	115VAC, with relay board	8 lb	Consult
179147 †	115VAC with EtherNet/IP	8 lb	Consult
179148 †	115VAC with Profinet	8 lb	Consult
179149 †	115VAC with Modbus/TCP	8 lb	Consult
179150 †	115VAC with Profibus	8 lb	Consult
179152 †	115VAC with DeviceNet	8 lb	Consult
179154 †	115VAC with EtherCAT	8 lb	Consult
177990 ††	115-230VAC	8 lb	Consult
178497 ††	115-230VAC with analog output	8 lb	Consult
178500 ††	115-230VAC, with relay board	8 lb	Consult
880 Plus Universal DC Powered			
178495	12-24VDC	8 lb	Consult

Power cord not included

† US plug (NA) - Type B   †† Euro Plug - Type E

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
197343**	Digital I/O, 24-channel TTL output	Consult
197347**	Serial ports, dual-channel RS-232/RS-485	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 for panel mount	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	Universal backplate with RJ-45 receptacle	Consult
197422	Universal backplate with micro USB receptacle	Consult
15436	Power cord for panel mount, US plug	Consult
105382	Power cord for panel mount, Euro plug	Consult
Cables		
152434	Cable, USB A to micro A shielded, 2 meters	Consult
156817	Cable, Ethernet RJ45 connectors 1 meter	Consult
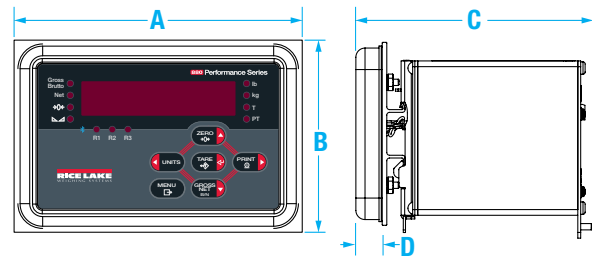
880 Panel Mount Dimensions

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
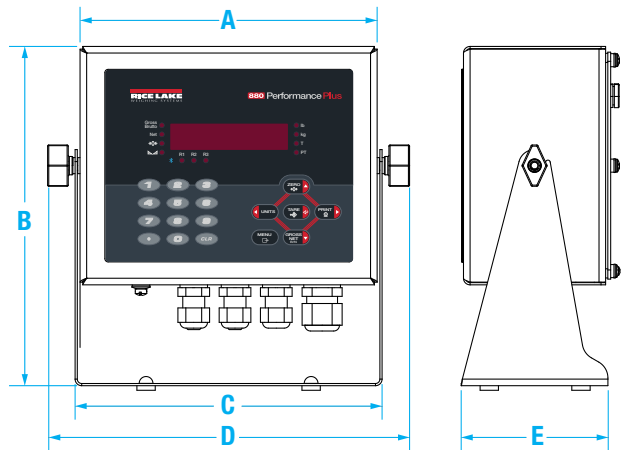
880 Universal Dimensions

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
156806	Cable, USB A to A, 1 meter	Consult
156809	Cable, USB A to B, 1 meter	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)		
151674	Display only	Consult
177977	115-230VAC, controller only	Consult
177988	12-24VDC controller only	Consult
131740	Overlay, panel mount, six-key	Consult
163986	Overlay, universal with numeric keypad	Consult
131598	Display board	Consult
175603*	Power supply, 100-240VAC	Consult
175604*	Power supply, 12-24VDC	Consult
175109*	CPU board	Consult

* Design change in 2017 to 5.5 in wide controller, see replacement parts catalog for the 5.0 inch wide boards.
** Requires version 4.0 firmware
To have your option factory installed, please specify when placing your order.