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









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



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

Part Number/Price

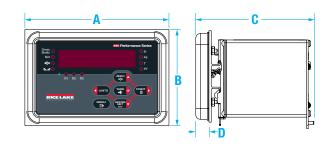
| Part # | Description | Est. Weight | Price |
|----------------------|--------------------------------|----------------|---------|
| 880 Pane | I Mount AC Powered* | | |
| 151674 | Display only | 2 lb | Consult |
| 177977 | 115-230 VAC, controller only | 4 lb | Consult |
| 177976 | 115-230VAC | 4 lb | 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

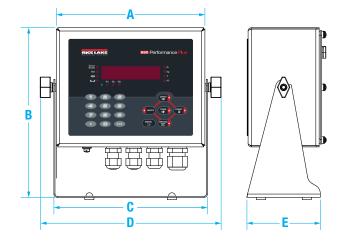
(B B) † NEMA 5-15 plug (O) †† CEE 7/7 plug (Euro)

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.