## 880/880 Plus Performance™ Series

Programmable Digital Weight Indicator/Controller



880 Plus Universal



**Approvals** 

880 Panel Mount

## **Standard Features**

- LED display, 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 75 m (panel mount)

current version blue CPU board is 140 mm (5.5 in) wide

- 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

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

#### Profibus DP Interface:

According to EN 50170

#### **EtherCAT**

According to IEEE 802.3

Additional models are available with the approvals shown here Please consult the factory for part numbers.





## **Specifications**

#### Power:

Line voltages: 100-240 VAC Frequency: 50-60 Hz DC voltages: 12-24 VDC

Power consumption: AC: 15WDC: 20W

#### **Excitation Voltage:**

10VDC, 8 x 350 $\Omega$  or 16 x 700 $\Omega$  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: Six-digits

## **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, 14 mm, six-digit, 14-segment with decimal

#### **Keys/Buttons:**

Flat membrane panel, tactile feel

#### **Temperature Range:**

Certified: -10°C to 40°C Operating: -10°C to 50°C

#### Dimensions (W x H x D):

Panel: 152 mm x 102 mm x 126 mm Universal: 251 mm x 238 mm x 110 mm

#### Weight:

Panel: 1 kg; Universal: 5 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:

OIML R76/1992-GB1-04.02 Class III, 10,000d EU Test Certificate TC8463

CE Marked

NTEP CC 13-080 Class III/IIIL, 10,000d

Measurement Canada AM-5931C Class III/IIIHD,

UL/cUL Listed (universal)

UL/cUL Recognized (panel mount)

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

## Part Number/Price

177977* 115 177976* 115 177979* 115	t AC Powered  olay only -230 VAC, controller only -230 VAC, without installed option -230 VAC with analog output -230 VAC with relay board -230 VAC with EtherNet/IP	1 kg 2 kg 2 kg 2 kg 2 kg	Consult Consult Consult
<b>177977*</b> 115 <b>177976*</b> 115 <b>177979*</b> 115	-230 VAC, controller only -230 VAC, without installed option -230 VAC with analog output -230 VAC with relay board	2 kg 2 kg 2 kg	Consult Consult Consult
<b>177976*</b> 115 <b>177979*</b> 115	-230VAC, without installed option -230VAC with analog output -230VAC with relay board	2 kg 2 kg	Consult Consult
<b>177979*</b> 115	-230VAC with analog output -230VAC with relay board	2 kg	Consult
	-230 VAC with relay board		
<b>177980*</b> 115		2 kg	Camacult
111000	220VAC with EthorNot/ID		Consult
<b>177982*</b> 115	-230 VAC WILLI ELLICINEL/IP	2 kg	Consult
<b>177983*</b> 115	-230 VAC with ProfiNet	2 kg	Consult
<b>177984</b> * 115	-230 VAC with Modbus/TCP	2 kg	Consult
<b>177985</b> * 115	-230 VAC with Profibus DP	2 kg	Consult
<b>179155*</b> 115	-230 VAC with EtherCAT	2 kg	Consult
880 Panel Moun	t DC Powered		
<b>177987*</b> 12-2	24VDC, without installed option	2 kg	Consult
<b>177988*</b> 12-2	24VDC controller only	2 kg	Consult
880 Plus Univers	sal AC Powered		
<b>177990</b> <sup>††</sup>   115	-230 VAC, without installed option	4 kg	Consult
<b>178497</b> <sup>††</sup> 115	-230 VAC with analog	4 kg	Consult
<b>178497</b> <sup>††</sup> 115	-230 VAC, with relay board	4 kg	Consult
880 Plus Univers	sal DC Powered		
<b>178495</b> 12-2	24VDC, without installed option	4 kg	Consult

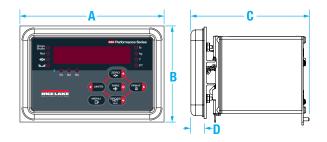
<sup>\*</sup>Power cable not included



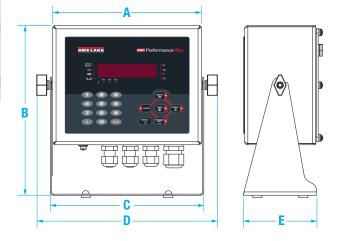
( ) †† CEE 7/7 plug (Euro)

## **Options/Accessories**

Part #	Description	Price
Option Card	ls (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 Ca	ards	
179158	EtherCAT interface	Consult
179159	EtherNet/IP® interface	Consult
179160	ProfiNet® interface	Consult
179161	Modbus/TCP <sup>®</sup> 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
15436	Power cord, pigtail with US NEMA 5-15 plug	Consult
105382	Power cord, pigtail with Euro Plug CEE 7/7	Consult
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 ar	nd Software	
77925	Revolution <sup>™</sup> scale software	Consult
152240	Operators manual	Consult
158387	Technical manual	Consult



880 Panel Mount Dimensions				
Α	152 mm	C	126 mm	
В	102 mm	D	14 mm BEZEL DEPTH	



880 Universal Dimensions					
Α	206 mm	D	248 mm		
В	235 mm	Е	102 mm		
С	213 mm				

## **Options/Accessories**

Part #	Description	Price			
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			
175109 *	11.27	-			

<sup>\*</sup> Design change in 2017 to 140 mm wide controller, see replacement parts catalog for the 127 mm wide boards.