

# 480/480 Plus Legend™ Series

## Digital Weight Indicator

### Specifications

#### Power:

Line voltages: 90- 264 VAC  
Frequency: 50 or 60 Hz

#### Power Consumption:

70 mA at 115 VAC, 35 mA at 230 VAC with (10) 350 Ω load cells

#### Excitation Voltage:

5VDC, 10 x 350 Ω load cells

#### Analog Signal Input Range:

±7 mV/V

#### Analog Signal Sensitivity:

0.1 uV/graduation minimum,  
0.5 uV/graduation recommended

#### Resolution:

Internal: 523,000 counts  
Display: 100,000 graduations

#### Measurement Rate:

Selectable 5, 10, 20, 40 Hz

#### System Linearity:

Within 0.01% of full scale

#### Circuit Protection:

Immunity 10 V/m ESD ±10 KV air ±6KV contact

#### RFI Protection:

Capacitor bypass and ESD suppressors

#### Serial Output:

Com 1: RS-232 full duplex  
Com 2: RS-232 full duplex or 20 mA simplex, continuous  
Both ports 1200, 2400, 4800, 9600, 19200, 38400 baud 7 or 8 data bits, even, odd or no parity

#### Display:

LED display, 0.8 in (20 mm), 6-digit, 7-segment

#### Status Annunciators:

Gross, net, center of zero, standstill, lb, kg, tare, preset tare

#### Keyboard:

Flat membrane panel, embossed keys, tactile feel

#### (Optional) Analog Output:

16-bit resolution, voltage output 0-10 VDC, current output 0-20 mA / 4-20 mA

#### (Optional) Relay Board:

2 opto-isolated, 5 to 24 VDC, active high inputs. 2 inputs (requires relay output option). Primary keys, pseudo functions, batching functions.  
(4) 30 VDC, 2 amp dry-contact relays

#### (Optional) Ethernet and USB Board:

USB 5-pin header for PC, printer or flash drive. Ethernet TCP/IP, RJ45 jack, server and client ports.

#### Operating Temperature:

Legal: 14° F to 104° F (-10° C to 40° C)  
Industrial: 14° F to 122° F (-10° C to 50° C)

#### Weight:

6.4 lb (2.9 kg)

#### Rating/Material:

Enclosure: NEMA Type 4X/IP66, heavy-gauge stainless steel

#### Warranty:

Two-year limited warranty

#### Approvals:

Measurement Canada AM-5892, Accuracy Class III/IIIHD, 10,000d  
NTEP CC 12-123, Accuracy Class III/III, 10,000d  
OIML R76/2006-NL1-12.48, T5692, TC8322 Accuracy Class III, 10,000d  
CE Marked  
C-UL pending



### APPROVALS



Measurement  
Canada  
Approved

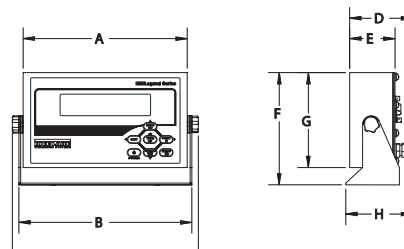


### Standard Features

- LED display, 0.8 in (20 mm), 6-digit, 7-segment
- Time and date, battery backed
- Local/remote operation
- Numeric keypad (480 Plus)
- Keyed entries for tare and setpoint values (480 Plus)
- 2 independent serial ports
- NEMA Type 4X/IP66 stainless steel washdown enclosure
- Password protection for user and configuration changes
- Selectable conversion rate and display update rate
- Hardware or audit trail metrology sealing
- Programmable ticket formats for gross, net, accumulator and setpoints
- 5 continuous stream formats
- Adapter filter or rolling average filter
- Operator functions through menu for audit trail, preset tare, unit ID, accumulator, time and date, setpoints, communications and print formats
- 8 setpoints, sequenced batch engine
- Configurable with Revolution® software

### Options

- Analog output, 0-10 VDC, 0-20 mA, 4-20 mA, selection for 20% offset
- Relay output, 2 digital inputs, four dry contact relays (supports 2 boards)
- Ethernet TCP/IP and USB interface (requires cable)
- Battery, rechargeable lithium ion  
Power for 40 hours of battery life on one 350 ohm load  
Power-saving modes for sleep and wake-up threshold



#### DIMENSIONS

A	9.50 in (241 mm)	E	2.75 in (70 mm)
B	10.00 in (254 mm)	F	7.00 in (177 mm)
C	11.00 in (279 mm)	G	6.00 in (152 mm)
D	3.65 in (92 mm)	H	3.75 in (95 mm)

# 480/480 Plus Legend Series

Digital Weight Indicator

## Part Number/Price: 480

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
<b>480 115 VAC †</b>			
126564	480 LED	8 lb	Consult
130338	480 LED with analog output	8 lb	Consult
130340	480 LED with relay output	8 lb	Consult
<b>480 90-264 VAC ††</b>			
126565	480 LED	8 lb	Consult
130339	480 LED with analog output	8 lb	Consult
130341	480 LED with relay output	8 lb	Consult

## Part Number/Price: 480 Plus

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
<b>480 Plus 115 VAC †</b>			
164588	480 Plus LED	8 lb	Consult
164589	480 Plus LED with analog output	8 lb	Consult
164590	480 Plus LED with relay output	8 lb	Consult
<b>480 Plus 90-264 VAC ††</b>			
164591	480 Plus LED	8 lb	Consult
164592	480 Plus LED with analog output	8 lb	Consult
164593	480 Plus LED with relay output	8 lb	Consult



†† CEE 7/7 plug  
Euro plug



† NEMA Type 5-15 plug

## Options/Accessories

PART #	DESCRIPTION	PRICE
131340	Mounting bracket for option boards	Consult
131341	Analog output, 0-10 VDC, 4-20 mA (requires 131340)	Consult
131342	Relay board, 2 digital inputs, 4 dry contact outputs (requires 131340)	Consult
164600	USB and Ethernet TCP/IP (requires 131340)	Consult
164604	Ethernet cable with cord grip, 6 ft	Consult
164602	USB cable with cord grip, type A female, 6 in	Consult
167707	USB cable with cord grip, type A male, 6 ft	Consult
167708	USB cable with cord grip, type B male, 6 ft	Consult
165379	Flash update cable	Consult
164650	Battery kit, rechargeable lithium ion	Consult
151100	A/D sealing kit, used with audit trail tracking	Consult
151099	Panel mount bezel (not NEMA rated)	Consult
83564	Clear protective overlay (package of five)	Consult
77925*	Revolution® scale software	Consult
119201	Installation manual	Consult
<b>Primary Replacement Components</b>		
131345	Overlay, 480 6-key, red window	Consult
159612	Overlay, 480 Plus with numeric keys, red window	Consult
131346	Display board, LED	Consult
131316	Power supply, 85-265 VAC	Consult
131318	CPU board	Consult
131319	A/D board	Consult

\* Revolution can be downloaded for free at [www.ricelake.com](http://www.ricelake.com)