## 680 Synergy Series

Digital Weight Indicator



#### **Approvals**



Canada















#### Standard Features

- LED display
- · Batteru backed time and date
- · Full numeric keypad
- Multiple communication ports
- 20 setpoint, 22 configurable types
- · Numeric keyed entry for tare and setpoint entry
- Formattable tickets
- Four onboard configurable digital I/O points, TTL logic
- · Built-in batch presets
- · Local/remote

#### **Options**

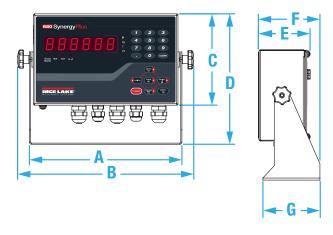
- · Analog output: 16-bit resolution, 0-10 VDC, 0-20 mA, 4-20 mA
- · RJ45 Ethernet connector

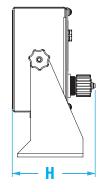
Note: IP Rating is IP66 with RJ45 option. Rating is valid only

## when the cover is in place, not in use.

## **Dimensions**

680 Synergy Series					
Α	10.02 in (255 mm)	E	3.40 in (86 mm)		
В	11.58 in (294 mm)	F	4.05 in (103 mm)		
С	6.00 in (152 mm)	G	3.80 in (97 mm)		
D	8 57 in (218 mm)	Н	4 74 in (120 mm)		





With External R I45 Connector

#### **Specifications**

#### Power:

Line voltages: 100 to 240 VAC Frequency: 50 to 60 Hz

#### **Power Consumption:**

2 W (AC) one 350 ohm load cell, 15 W max

#### **Excitation Voltage:**

10 VDC (± 5 VDC), 8 × 350 ohm or  $16 \times 700$  ohm load cells

#### **Analog Signal Input Range:**

-5 mV to +70 mV

#### **Analog Signal Sensitivity:**

0.3 μV/graduation minimum 1 μV/graduation recommended

#### A/D Sample Rate:

6.25 to 120 Hz, software selectable

#### Resolution:

Internal: 8,000,000 counts Display: 1,000,000

#### System Linearity:

Within 0.01% full scale

#### Digital I/O:

Four configurable I/O - 5 V logic

#### (Optional) Analog Output:

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

#### **Communication Ports:**

Two full-duplex RS-232 RS-485/422 (five-wire) Micro USB (device) Ethernet TCP/IP (10/100)

#### **Annunciators:**

Eight LED annunciators

#### Display:

Seven 0.8 in tall, seven-segment digits

### Keys/Buttons:

Flat membrane panel, tactile feel (18 buttons plus ON/OFF)

#### **Dimensions:**

 $(L \times W \times H)$ 11.58 × 4.05 × 8.57 in (294 × 103 × 218 mm)

#### Temperature:

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

#### Rating/Material:

IP69K (IP66 with RJ45) AISI 304 stainless Steel

#### Weight:

6.25 lb (3 kg)

#### Warranty: Two-year limited

**EMC Immunity:** 

#### 10 V/m Approvals:

NTEP 19-021, Class III/IIIL, 10,000 d Measurement Canada AM-6121C OIML R76/2006-A-NL1-19.56 NOM EU Eval Certificate TC11562 **CE** Listed UKCA

cULus Listed IFC. NMI

# **680 Synergy Series**Digital Weight Indicator

## Part Number/Price

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Part #	Description	Est. Weight	Price		
115 to 230 VAC					
193152 <sup>†</sup>	680 Plus indicator, LED display, US power cord	7 lb	Consult		
193153 <sup>††</sup>	680 Plus indicator, LED display, EU power cord	7 lb	Consult		
196326†††	680 Plus indicator, LED display, UK power cord	7 lb	Consult		
196327###	680 Plus indicator, LED display, AUS power cord	7 lb	Consult		
9 to 36 VDC					
193154*	680 Plus indicator, LED display	7 lb	Consult		
With Analog Outpu	t Card				
195176 <sup>†</sup>	680 Plus indicator, LED display, 115-230 VAC with analog output card, US power cord	7 lb	Consult		
195177 <sup>#</sup>	680 Plus indicator, LED display, 115-230 VAC with analog output card, EU power cord	7 lb	Consult		
196539 <sup>†††</sup>	680 Plus indicator, LED display, 115-230 VAC with analog output card, UK power cord	7 lb	Consult		
196538 <sup>††††</sup>	680 Plus indicator, LED display, 115-230 VAC with analog output card, AUS power cord	7 lb	Consult		
With External RJ45	Connector**				
200183 <sup>†</sup>	680 Plus Indicator, LED display, 115-230 VAC with RJ45, US power cord	7 lb	Consult		
200184#	680 Plus Indicator, LED display, 115-230 VAC with RJ45, EU power cord	7 lb	Consult		
200185##	680 Plus Indicator, LED display, 115-230 VAC with RJ45, UK power cord	7 lb	Consult		
200186****	680 Plus Indicator, LED display, 115-230 VAC with RJ45, AUS power cord	7 lb	Consult		

#### **Options/Accessories**

Part #	Description	Price
195084	Analog output option card	Consult
151099	Panel mount option, gasketed non-NEMA seal	Consult
223864	Knob, stainless steel M6 x 1.0 in	Consult
195684	CPU board	Consult
194477	Parts kit	Consult

To have your option factory installed, please specify when placing your order.



† US plug (NA) - Type B



tt Euro Plug - Type E



ttt BS1363 (UK) - Type G



tttt AS 3112 (Australian) - Type I

<sup>\*</sup>Not UL approved \*\*IP rating is IP66 with RJ45 option