## **680 Synergy Series**

Digital Weight Indicator



### **Standard Features**

- · Bright seven-digit, seven-segment LED display
- · Battery backed time and date
- · Full numeric keypad
- Three serial ports: two RS-232, one full duplex RS-485
- · Numeric keyed entry allowed for tare and setpoint entry
- · Formattable tickets
- Ethernet TCP/IP
- USB device
- Stainless steel IP69K enclosure
- · Four onboard configurable digital I/O points, TTL logic

#### **Options**

- Analog output: 16-bit resolution, 0-10VDC, 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.

## **Approvals**











## **Specifications**

#### Power

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

#### **Power Consumption:**

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

#### **Excitation Voltage:**

10 VDC (± 5 VDC), 8 x 350 $\Omega$  or 16 x 700 $\Omega$  load cells

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

-5 mV to +70 mV

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

1 μV/graduation recommended

#### A/D Sample Rate:

6.25-120 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 - 5V logic

#### **Communication Ports:**

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

#### Status 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)

#### Temperature Range:

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

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

11.58 in x 8.57 in x 4.05 in (30 cm x 22 cm x 10 cm)

#### Weight:

6.25 lb (3 kg)

#### Rating/Material:

Rating: IP69K IP66 with RJ45 Material: AISI 304 Stainless Steel

#### Warranty:

Two-year limited warranty

#### **EMC Immunity:**

10 V/m

#### Approvals:

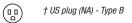
NTEP CC 19-021, Class III/IIIL, 10,000d Measurement Canada AM-6121, Class III/IIIHD, 10,000d OIML UL/CUL Listed CE Marked

# **680 Synergy Series**Digital Weight Indicator

## Part Number/Price

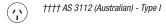
Part #	Description	Est. Weight	Price					
115-230 VAC								
193152 <i>†</i>	152 † 680 Plus indicator, LED display, US power cord		Consult					
193153 ††	680 Plus indicator, LED display, EU power cord		Consult					
196326 +++	680 Plus indicator, LED display, UK power cord	7 lb	Consult					
196327 ++++	680 Plus indicator, LED display, AUS power cord	7 lb	Consult					
9-36 VDC								
193154	680 Plus indicator, LED display,	7 lb	Consult					
With Analog Output Card								
195176 †	680 Plus indicator, LED display, 115-230 VAC with analog output card, US power cord		Consult					
195177 ††	680 Plus indicator, LED display, 115-230 VAC with analog output card, EU power cord	7 lb	Consult					
196539 +++	680 Plus indicator, LED display, 115-230 VAC with analog output card, UK power cord		Consult					
196538 ++++	680 Plus indicator, LED display, 115-230 VAC with analog output card, AUS power cord	7 lb	Consult					
With External RJ45 Connector								
<b>200183</b> †	680 Plus Indicator, LED display, 115-230VAC with RJ45, US power cord	7 lb	Consult					
200184 //	184 /f 680 Plus Indicator, LED display, 115-230VAC with RJ45, EU power cord		Consult					
200185 +++	680 Plus Indicator, LED display, 115-230VAC with RJ45, UK power cord		Consult					
200186 ++++	<b>0186</b> ### 680 Plus Indicator, LED display, 115-230VAC with RJ45, AUS power cord		Consult					
IP Rating is IP66 with R.145 ontion								

IP Rating is IP66 with RJ45 option





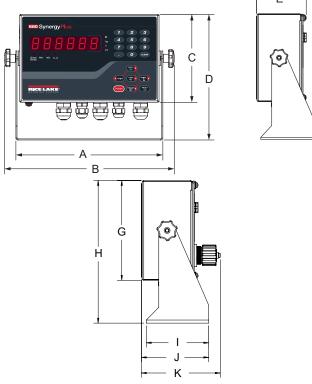
(III) + +++ BS1363 (UK) - Type G



## **Options/Accessories**

Part #	Description	Price
195084	Analog output option card	Consult
151099	Panel mount option, gasketed non-NEMA seal	Consult

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



With External RJ45 Connector

Dimensions				
Α	10.02 in (254.5 mm)	G	6.00 in (152.4 mm)	
В	11.58 in (294.1 mm)	Н	8.57 in (217.6 mm)	
C	6.00 in (152.4 mm)	I	3.80 in (96.5 mm)	
D	8.57 in (217.6 mm)	J	4.05 in (102.87 mm)	
Ε	3.40 in (86.3 mm)	K	4.74 in (120.4 mm)	
F	4.05 in (102.87 mm)			