680 Synergy SeriesDigital Weight Indicator



Approvals











Standard Features

- LED displau
- · Battery backed time and date
- · Full numeric keypad
- · Multiple communication ports
- · Eight setpoint, 22 configurable types
- Formattable tickets
- Four onboard configurable digital I/O points, TTL logic
- · Local/remote

Options

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

Note: IP Rating is IP66 with RJ45 option. Rating is valid only when the cover is in place, not in use.

0-20 mA, 4-20 mA

• Numeric keyed entry for tare and setpoint entry

Specifications

Power:

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

Power Consumption:

 $2 \text{ W (AC)} 1 \times 350 \text{ ohm load cell, } 15 \text{ W max}$

Excitation Voltage:

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

Analog Signal Input Range:

-5 mV to +70 mV

Analog Signal Sensitivity:

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

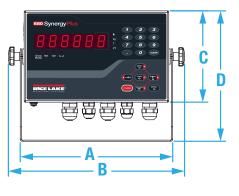
Approvals:

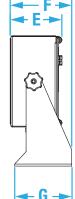
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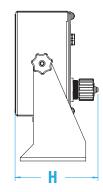
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Dimensions

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 RJ45 Connector

680 Synergy Series Digital Weight Indicator

Part Number/Price

Part #	Description	Est. Weight	Price
115 to 230 VAC			
193152 [†]	680 Plus indicator, LED display, US power cord	7 lb	Consult
193153 [#]	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 Output	t Card		
195176 [†]	680 Plus indicator, LED display, 115-230 VAC with analog output card, US power cord	7 lb	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	7 lb	Consult
196538###	680 Plus indicator, LED display, 115-230 VAC with analog output card, AUS power cord	7 lb	Consult
With External RJ45	Connector**		
200183 [†]	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

^{*}Not UL approved **IP rating is IP66 with RJ45 opton