# **NEW 680 Synergy Series** Digital Weight Indicator

**Replacement for** 10355/420 Plus



### **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, 0-20mA, 4-20mA











### **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 Output (optional): Type: Voltage or current output, 16-bit resolution Voltage Output:

0-5 VDC, 0-10 VDC,+/- 5 VDC, +/- 10 VDC Voltage Load Resistance:

1 KΩ minimum **Current Output:** 0-20 mA, 0-24 mA, 4-20 mA **Current Loop Resistance:** 1,000Ω maximum

**Analog Signal Input Range:** -0.5 mV/V to +7 mV/V

**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 / PI Rating: Within 0.01% full scale

Digital I/O: Four configurable I/O - 5V logic

**Communication Ports:** Two RS-232 full duplex RS-485 full duplex USB (device)

Ethernet (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)

Weight: 6.25 lb (3 kg)

**Rating/Material:** 

Rating: IP69K Material: AISI 304 Stainless Steel

Warranty:

Two-year limited warranty

**EMC Immunity:** 10 V/m

Approvals:

NTEP CC 12-123, Class III/IIIL, 10,000d Measurement Canada AM-5892, Class III/IIIHD, 10,000d OIML R76/2006-A-NL1-19.56 UL/cUL Listed CE Marked





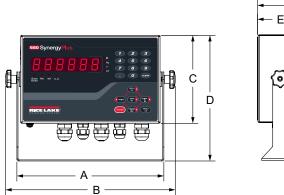




# NEW 680 Synergy Series Digital Weight Indicator

### Part Number/Price

Part #	Description		Est. Weight	Price
193152 <i>†</i>	680 Plus indicator, LED display, 115-230 US power cord	30 Plus indicator, LED display, 115-230 VAC, S power cord		
193153 ††	680 Plus indicator, LED display, 115-230 EU power cord	Plus indicator, LED display, 115-230 VAC, bower cord		
196326 ###	680 Plus indicator, LED display, 115-230 UK power cord	7 lb	Consult	
196327 ++++	680 Plus indicator, LED display, 115-230 AUS power cord	7 lb	Consult	
With Analog	Output Card			
195176 <i>†</i>	680 Plus indicator, LED display, 115-230 VAC with analog output card, US power cord		7 lb	Consult
<b>195177</b>	680 Plus indicator, LED display, 115-230 with analog output card, EU power cord	7 lb	Consult	
196539 +++	680 Plus indicator, LED display, 115-230 with analog output card, UK power cord	7 lb	Consult	
196538 ++++	680 Plus indicator, LED display, 115-230 with analog output card, AUS power core	7 lb	Consult	
	+ US plug (NA) - Type B	+ Euro	Plug - Type E	
	t†† BS1363 (UK) - Type G	++++ AS	5 3112 (Austra	alian) - Type I



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**INDICATORS / CONTROLLERS** 

#### Dimensions

	Dimensions				
Α	10.02 in (254.5 mm)	D	8.57 in (217.6 mm)		
В	11.58 in (294.1 mm)	Е	3.40 in (86.3 mm)		
С	6.00 in (152.4 mm)	Е	4.05 in (26.67 mm)		

## **Options/Accessories**

Part #	Description	Price	
195084	Analog output option card	Consult	
To have your option factory installed, please specify when placing your order			

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