

NEW
680 Synergy Series
 Digital Weight Indicator

**Replacement for
 IQ355/420 Plus**



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 Ω or 16 x 700 Ω 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 K Ω minimum
- Current Output:**
 0-20 mA, 0-24 mA, 4-20 mA
- Current Loop Resistance:**
 1,000 Ω maximum
- Analog Signal Input Range:**
 -0.5 mV/V to +7 mV/V
- Analog Signal Sensitivity:**
 1 μ V/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/IIHD, 10,000d
 OIML
 UL/cUL Listed
 CE Marked

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

Approvals



Measurement
 Canada
 Approved



NEW 680 Synergy Series Digital Weight Indicator

Part Number/Price

Part #	Description	Est. Weight	Price
193152 †	680 Plus indicator, LED display, 115-230VAC, US power cord	7 lb	Consult
193153 ††	680 Plus indicator, LED display, 115-230VAC, EU power cord	7 lb	Consult
196326 †††	680 Plus indicator, LED display, 115-230VAC, UK power cord	7 lb	Consult
196327 ††††	680 Plus indicator, LED display, 115-230VAC, AUS power cord	7 lb	Consult
With Analog Output Card			
195176 †	680 Plus indicator, LED display, 115-230VAC with analog output card, US power cord	7 lb	Consult
195177 ††	680 Plus indicator, LED display, 115-230VAC with analog output card, EU power cord	7 lb	Consult
196539 †††	680 Plus indicator, LED display, 115-230VAC with analog output card, UK power cord	7 lb	Consult
196538 ††††	680 Plus indicator, LED display, 115-230VAC with analog output card, AUS power cord	7 lb	Consult



† US plug (NA) - Type B



†† Euro Plug - Type E



††† BS1363 (UK) - Type G

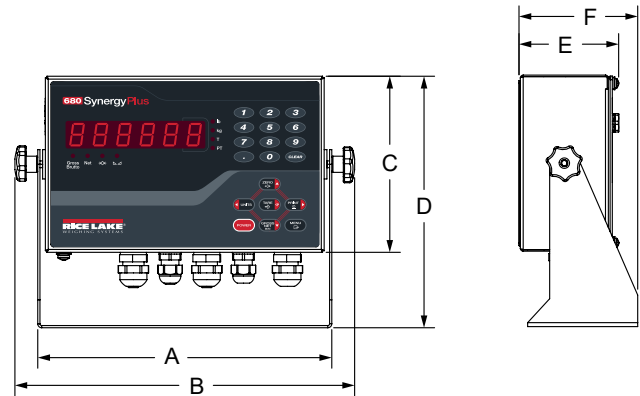


†††† AS 3112 (Australian) - Type I

Options/Accessories

Part #	Description	Price
195084	Analog output option card	Consult

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



Dimensions

A	10.02 in (254.5 mm)	D	8.57 in (217.6 mm)
B	11.58 in (294.1 mm)	E	3.40 in (86.3 mm)
C	6.00 in (152.4 mm)	E	4.05 in (26.67 mm)