

DIGITAL WEIGHT INDICATOR







800-472-6703 **www.ricelake.com**



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The Next Generation of Configurable Indicators



Rice Lake's configurable 680 Synergy Series indicator combines powerful features found in advanced instrumentation with easy-to-use functions of more basic indicators. Designed with the customer in mind, the 680 is suitable for real-world, industrial environments. Tackle general purpose weighing, straightforward automation and a wide range of applications with the 680 Synergy Series.

Powerful Functions Backed by Advanced Communication

With eight setpoints and four digital I/O, the 680 can perform basic batching and filling operations. Design a multi-step procedure and run it automatically from beginning to end with the 680's configurable batch engine. Users can also customize printed tickets with formattable gross, net, setpoint and auxiliary print formats.

The 680 also supports multiple onboard communication options, cutting costs and providing connection to multiple devices such as printers and computers.

Durable, IP69K Construction

Constructed with durable 304 stainless steel and able to withstand harsh washdowns, the 680 maximizes process efficiency in virtually any environment or application. An IP69K rating ensures the 680 can stand up to high-pressure, high-temperature washdowns found in food processing environments.

SALES AND TECHNICAL ASSISTANCE

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
- USB device
- Four onboard configurable digital I/O points, TTL logic
- Local/Remote

OPTIONS

•	Analog Output:	Type: Voltage or current output, 16-bit resolution
		Voltage Output: 0-5 VDC, 0-10 VDC, +/- 5 VDC, +/- 10 VDC
		Voltage Load Resistance: 1 KO minimum
		Current Output: 0-20 mA, 0-24 mA, 4-20 mA
		Current Loop Resistance: 1,000Ω maximum

SPECIFICATIONS

POWER:	Line voltages: 100 to 240 VAC Frequency: 50 to 60 Hz
POWER CONSUMPTION:	2W (AC) with one 350 ohm load cell, 15W 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 - 5V logic
COMMUNICATION PORTS:	Two RS-232 (three-wire) RS-485/422 (tive-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 × W × H):	11.58 × 8.57 × 4.05 in (294 × 218 × 103 mm)
TEMPERATURE RANGE:	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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