

680HE Synergy

Hostile Environment
Digital Weight Indicator



RICE LAKE[®]
WEIGHING SYSTEMS

800-472-6703
www.ricelake.com

680HE Synergy

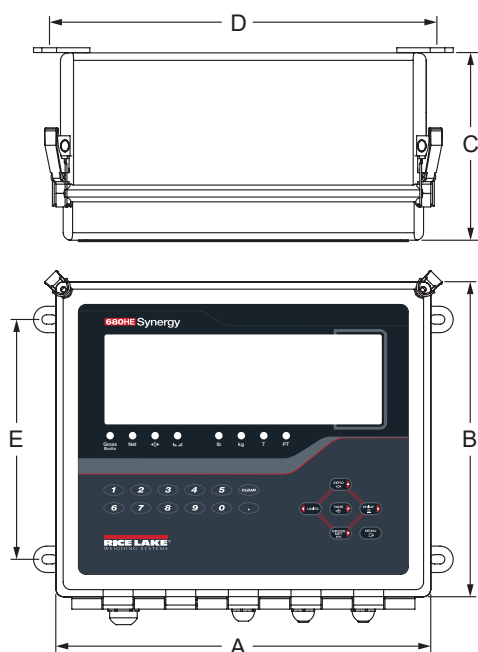
Hostile Environment
Digital Weight Indicator



Rice Lake's 680HE hostile environment weight indicator is made to withstand the unique demands of corrosive environments. Ideal for the agriculture industry, fertilizer production and transfer, as well as other applications with a high concentration of corrosive substances such as chlorine, the 680HE uses an FRP enclosure and IP66 rating for the highest level of protection.

The bright 2.5-inch, six-digit display makes it easy to view weight from a distance in any lighting condition. The large display size and local/remote capability give the 680HE the option to be used as a secondary display. Configure display color as red or green for enhanced visibility that best suits the application.

The 680HE supports multiple communication options for connecting to multiple devices such as printers and PCs. The full numeric keypad makes tare entry easy, and four digital I/O points are available for basic weight-based control of interfaced equipment.



Dimensions

A	12.50 in (317.5 mm)	D	13.00 in (330.20 mm)
B	10.50 in (266.7 mm)	E	8.00 in (203.20 mm)
C	6.30 in (160.0 mm)		

STANDARD FEATURES

- Bright six-digit, seven-segment two color 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
- IP66 FRP enclosure
- Four onboard configurable digital I/O points, TTL logic

OPTIONS

- Ethernet bulkhead connector
- Analog output: 16-bit resolution, 0-10 VDC, 0-20 mA, 4-20 mA

SPECIFICATIONS

POWER:	Line voltages: 100-240 VAC Frequency: 50-60 Hz
POWER CONSUMPTION:	12W (AC) with one 350 ohm load cell, 30W max
EXCITATION VOLTAGE:	10 VDC (± 5 VDC)
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:	1K Ω 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: 100,000
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-485/422 full duplex Micro USB (device) Ethernet (10/100)
STATUS ANNUNCIATORS:	Eight LED annunciators
DISPLAY:	Six 2.5 in tall, seven-segment digits
KEYS/BUTTONS:	Flat membrane panel, tactile feel (18 buttons)
TEMPERATURE RANGE:	Legal: 14° F to 104° F (-10° C to 40° C) Industrial: 14° F to 122° F (-10° C to 50° C)
EMC IMMUNITY:	10 V/m
WEIGHT:	6.25 lb (3 kg)
RATING/MATERIAL:	Rating: IP66 Material: FRP
WARRANTY:	Two-year limited warranty

APPROVALS



NTEP CC
19-021,
Class III/III,
10,000d

Measurement
Canada
Approved



SALES AND TECHNICAL ASSISTANCE

RICE LAKE
WEIGHING SYSTEMS

HEADQUARTERS

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