

# 880 Performance<sup>TM</sup> Series

PANEL MOUNT AND  
UNIVERSAL  
INDICATOR/CONTROLLER



**RICE LAKE**<sup>®</sup>  
WEIGHING SYSTEMS

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# 880 Performance™ Series

PANEL AND UNIVERSAL MOUNT INDICATOR/CONTROLLER

# Power to Perform

Designed with the user process in mind and built for communication, Rice Lake's Performance™ Series indicators/controllers are packed with power, yet simple in design. Intuitive multifunction menu keys allow navigation in any application and the NEMA4X/IP69K-rated gasket effectively keeps internal components out of harm's way. Twenty time- and weight-based setpoints provide ultra-responsiveness to handle any process-control requirement. The innovative 880 and 880 Plus also accommodate a range of connectivity—from USB and RS-232/RS-485 to Ethernet TCP/IP. With two different enclosure types to choose from, Rice Lake's 880 Performance Series exceeds your expectations wherever you need it.

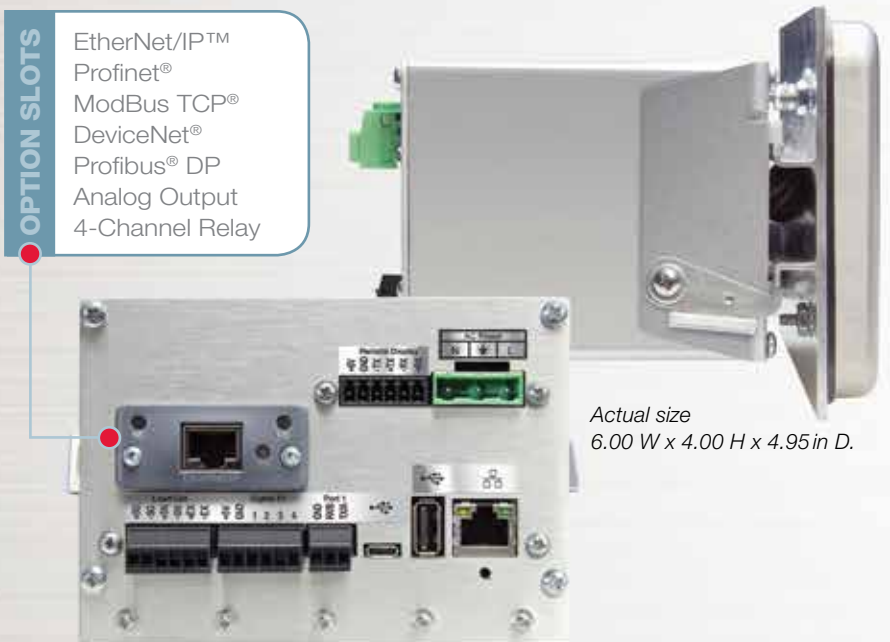


## Exceptional Stability

Adaptive filtering eliminates interference from vibration or noise, speeding up the communication process. You can be confident that the displayed output is not only accurate, but also responsive despite environmental interference.

## Expansive Communication

The expanded communication capabilities allow Performance Series indicators to deliver a wide variety of connectivity options. Connect directly to a PC through the USB device port or use the USB host port to connect a keyboard or flash drive. Analog output adds even more communication capacity. Five available option cards can be added for communicating through fieldbus protocols including: EtherNet/IP, Profinet, Modbus TCP, DeviceNet and Profibus DP.



Actual size  
6.00 W x 4.00 H x 4.95 in D.

USB (device and host)



Modular  
Controller Box



## Strong Communicator

Data compatibility is assured with customizable demand formats for gross, net, accumulator and setpoints; and customizable stream format. Onboard communication includes:

- RS-232 or RS-485
- USB (device and host)
- Ethernet TCP/IP (Server and Client)

## Growth Potential

The 880 Performance Series easily adapts to almost any application. Use the option slot to enhance functionality with:

- Analog Output with 0-10 VDC, 4-20 VDC; configurable negative value tracking
- Dry Contact 4-channel relay board increase the number of available outputs

## Advanced Design

Efficient construction incorporates next-generation technology in an intelligent, compact form.

- IP69K stainless steel enclosure endures harsh environments
- Bright, 14-segment LED display
- Panel mount display can be mounted externally from the controller
- Panel mount provides external pluggable connections

## Concentrated Power

The 880 Performance Series is packed with top-end performance.

- Selectable up to 960 Hz A/D sample rate
- Batch engine with 20 setpoints and 12 setpoint types (sequenced or free-running)
- Four Digital I/O can be used as operator inputs or control outputs
- Powered by AC or DC

## 880 Performance

The sleek design of the 880 not only looks great, it also fits great into existing and new panels alike. At just under five inches deep, the efficiently designed enclosure fits easily into compact spaces with DIN-rail clips to make mounting quick and effortless. The 880's modular design enables the display to be remotely mounted, especially useful for instances when it is inconvenient to mount the controller on a conventional panel.

## 880 Performance Plus

Equipped with a universal mount, the 880 Plus delivers all of the powerful features of the 880 when a panel mount isn't necessary. The numeric keypad simplifies the user experience, making operations more convenient and flexible.



# 880 Performance Series™

## PANEL AND UNIVERSAL MOUNT INDICATOR/CONTROLLER

### Standard Features

- LED Display, 0.56inch (14mm), 14 segment
- RS-232 or RS-485 Serial Port
- USB device port connects directly to a PC
- USB host port connects to a keyboard or flash drive
- Ethernet TCP/IP polled or continuous
- AC or DC models
- Built-in DIN-rail clips on controller box (panel mount)
- Display and controller can be separated up to 250ft (panel mount)
- Hardware slot for one option card
- Operator functions through Menu key for Audit Trail, Preset Tare, Accumulator, Time & Date and Setpoints
- Audit trail tracking for configuration and calibration changes. Password protection for user and configuration changes.
- 20 Setpoints with latched batch engine or unlatched outputs
- Four onboard digital I/O channels
- Programmable ticket formats up to 1000 characters for Header Text, Gross, Net, Accumulator, Setpoints
- Local/Remote operation
- Multi range or multi interval weighing
- Filter settings for light, medium and heavy noise

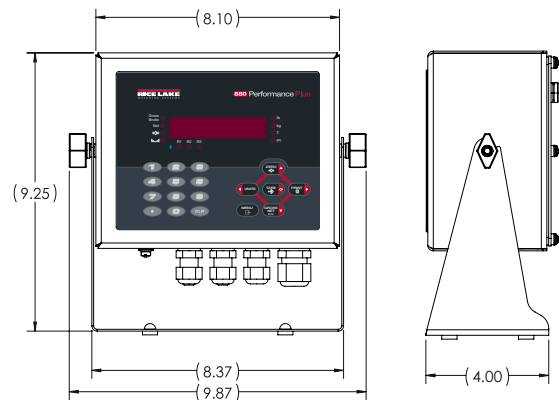
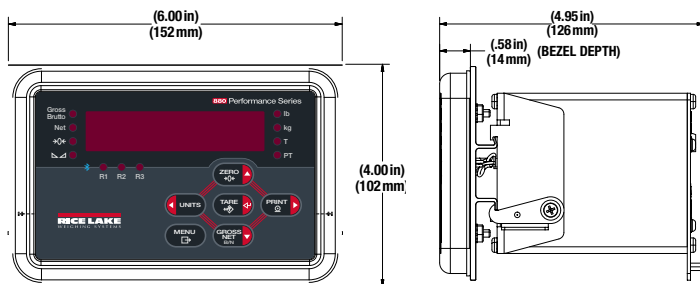
### Options/Accessories

- Analog output, 16-bit resolution, 0-10VDC, 0-20 mA, 4-20 mA
- Relay output, (4) dry contact, normally open (SPST) 30VDC/250 VAC at 3 Amps
- Interface for Profinet®, Profibus®, Modbus TCP®, EtherNet/IP™ and DeviceNet® protocols
- Metrological hardware sealing kit
- Adapter plate for converting 310A and 520 panel mounts

### Specifications

<b>Power:</b>	<b>Input voltages:</b> 100-240VAC or 9-36VDC <b>Input Frequency:</b> 47-63Hz
<b>Excitation Voltage:</b>	10VDC, 8 x 350.Ω (16 x 700.Ω) load cells
<b>Input Range:</b>	-45mV to 45mV
<b>Sensitivity:</b>	0.3µV/graduation minimum at 7.5Hz 1.0µV/graduation typical at 120Hz 4.0µV/graduation typical at 960Hz
<b>A/D Sample Rate:</b>	7.5 to 960Hz, software selectable
<b>Resolution:</b>	<b>Internal:</b> 8 million counts/23 bit <b>Weight display:</b> 100,000
<b>System Linearity:</b>	± 0.01% Full Scale
<b>Digital I/O:</b>	Four I/O Onboard Primary keys, Pseudo functions, Batching functions
<b>Circuit Protection:</b>	18KV, 10V/meter
<b>Communication:</b>	RS-232 Full Duplex or RS-485 Half Duplex USB Type A Connector 2.0 USB Micro A/B Connector 2.0 Ethernet TCP/IP
<b>Display:</b>	LED, Six 0.56inch (14mm), 14 Segment with Decimal or Comma
<b>Annunciators:</b>	Gross, Net, Center of Zero, Standstill, lb, kg, Tare, Preset Tare, Range 1/2/3
<b>Keyboard:</b>	Flat membrane panel, tactile feel
<b>Operating Temperature:</b>	<b>Legal:</b> 14°F to 104°F (-10°C to 40°C) <b>Industrial:</b> 14°F to 122°F (-10°C to 50°C)
<b>Weight:</b>	<b>Panel:</b> 2.5lb (1.2kg) <b>Universal:</b> 12lb (5.4kg)
<b>Rating:</b>	NEMA 4X, IP69K
<b>Material Panel:</b>	<b>Display:</b> Stainless Steel <b>Controller:</b> Aluminum
<b>Material Universal:</b>	Stainless Steel
<b>Warranty:</b>	Two-year limited warranty

### Approvals



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