

# 880 Performance Series™

PANEL MOUNT AND UNIVERSAL  
INDICATOR/CONTROLLER



**RICE LAKE®**  
WEIGHING SYSTEMS

800-472-6703

[www.ricelake.com](http://www.ricelake.com)

# Power of Communication

With a wide variety of connectivity options, Rice Lake's Performance™ Series indicator and controller is packed with advanced capabilities.

Expanded communication options allow 880/880 Plus Performance Series indicators to integrate with a wide variety of devices. Connect directly to a PC through the onboard USB device port, or utilize RS-232/RS-485 and Ethernet TCP/IP to communicate with other industrial equipment.

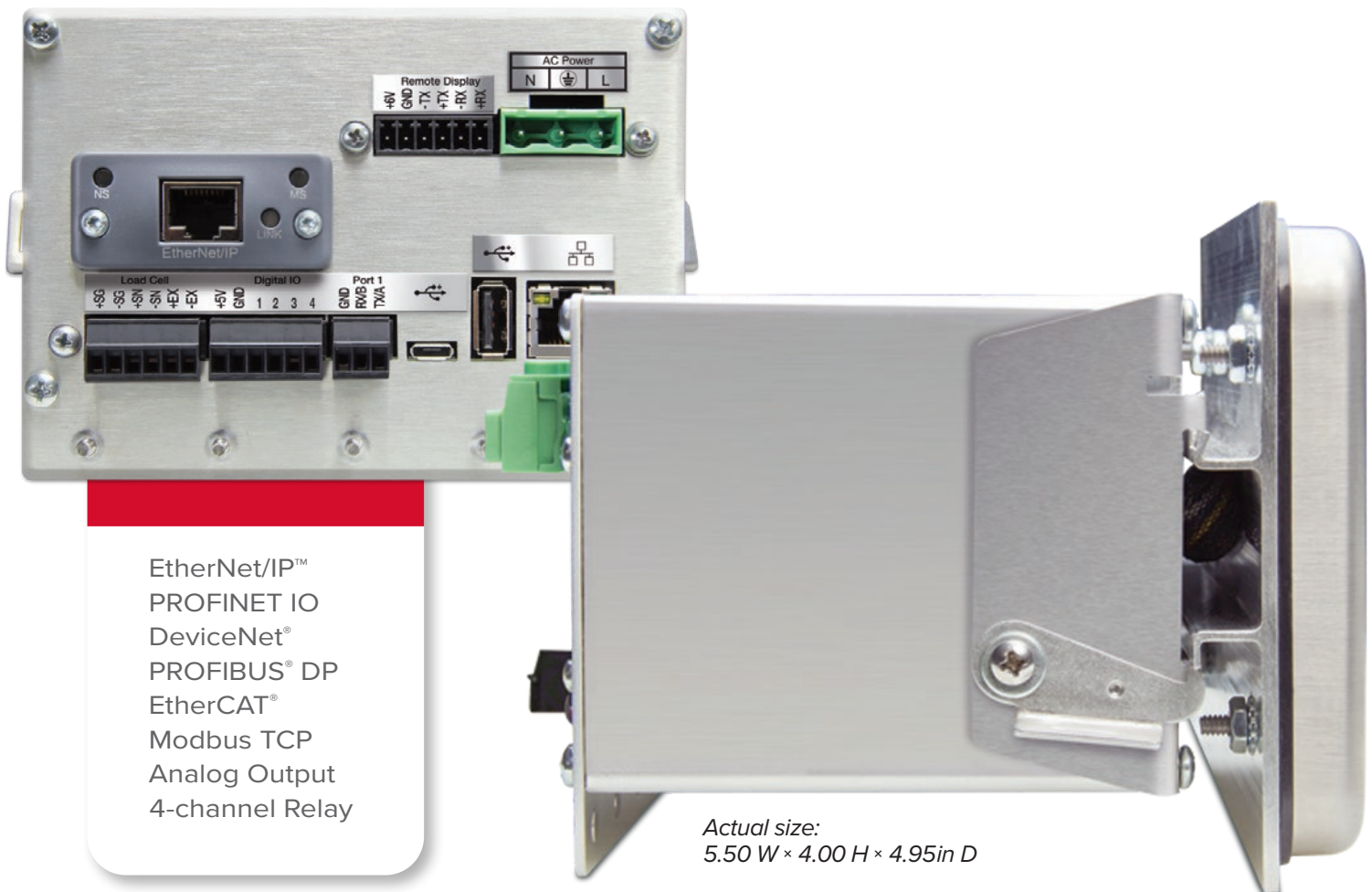
Optional analog output adds even more communication for devices, while a single option card slot can support industrial protocols, including EtherNet/IP™, PROFINET IO, Modbus TCP, DeviceNet®, EtherCAT® and PROFIBUS® DP.

Multifunction menu keys allow quick navigation, and adaptive filtering eliminates interference from vibration or noise.

With 20 time- and weight-based setpoints, the Performance Series offers responsiveness to handle a variety of process-control requirements. Customizable functions can be programmed using Rice Lake's iRite™ software for specific operations.

With two different enclosure types to choose from, the 880/880 Plus Performance Series exceeds your expectations wherever you need it.

A NEMA Type 4X, Type 12 and IP69K-rated gasket effectively keeps internal components protected—even in harsh environments.



EtherNet/IP™  
PROFINET IO  
DeviceNet®  
PROFIBUS® DP  
EtherCAT®  
Modbus TCP  
Analog Output  
4-channel Relay

Actual size:  
5.50 W × 4.00 H × 4.95 in D

## ACCESSIBLE DATA

Customizable demand formats for gross, net, accumulator and setpoints. A customizable stream format ensures data compatibility.



## CONNECTIVITY OPTIONS

With 20 setpoints and 12 setpoint types (sequenced or free-running), the 880's batch engine can control basic and advanced processes. For unique applications, iRite PC software can create a custom 880 program.



## COMPACT DESIGN

The Performance Series offers impressive power in multiple enclosure styles to fit the needs of any location. At just under 5 inches deep, the panel mount fits easily into compact spaces with DIN-rail clips.



## PROCESS CONTROL

Onboard communication includes RS-232 or RS-485, USB (device) and Ethernet TCP/IP (server and client) to integrate with most applications right out of the box. Increase capabilities with optional analog output, industrial protocols or a dry-contact four-channel relay board.

# 880 Performance Series™

PANEL AND UNIVERSAL MOUNT INDICATOR/CONTROLLER

## STANDARD FEATURES

- LED display
- USB device port connects directly to a PC
- Ethernet TCP/IP polled or continuous, server/client
- Built-in DIN-rail clips on controller box (panel mount)
- Display and controller can be separated up to 250 ft (panel mount)
- Hardware slot for one option card
- Operator functions through menu key for audit trail, preset tare, accumulator, time and date and setpoints
- Audit trail for tracking 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 1,000 characters for header text, gross, net, accumulator and setpoints
- Five-point linearization calibration
- Local/remote operation
- Multi-range or multi-interval weighing
- Filter settings for light, medium and heavy noise

## OPTIONS

- Analog output
- Relay board
- Fieldbus connectivity
- Dual serial output (v4.00 and newer)
- 24-channel digital I/O (v4.00 and newer)
- Adapter plate for converting 310 and 520 panel mounts
- Panel mount kit for universal enclosure
- Truck in/out program for 100 vehicle IDs



## SPECIFICATIONS

<b>POWER:</b>	Line voltages: 100 to 240 VAC Frequency: 50/60 Hz DC voltages: 12 to 24 VDC
<b>POWER CONSUMPTION:</b>	AC: 15 W, DC: 20 W
<b>EXCITATION VOLTAGE:</b>	10 VDC (±5 VDC), 16 × 350 ohm or 32 × 700 ohm load cells
<b>ANALOG SIGNAL INPUT RANGE:</b>	-45 mV to 45 mV
<b>ANALOG SIGNAL SENSITIVITY:</b>	0.3 μV/graduation minimum at 7.5 Hz; 1.0 μV/graduation recommended
<b>A/D SAMPLE RATE:</b>	7.5 to 960 Hz, software selectable
<b>RESOLUTION:</b>	Internal: 8,000,000 counts Display: 999,999
<b>SYSTEM LINEARITY:</b>	± 0.01% full scale
<b>DIGITAL I/O:</b>	Four I/O onboard, primary keys, pseudo functions, batching functions
<b>(OPTIONAL) ANALOG OUTPUT:</b>	Voltage output: 0–10 VDC Load resistance: 1 k ohm minimum Current output: 0–20 mA or 4–20 mA External loop resistance: 500 W maximum
<b>(OPTIONAL) RELAY BOARD:</b>	Four channel relay module, dry contact 3 A at 115 VAC, 3 A at 30 VDC
<b>COMMUNICATION PORTS:</b>	RS-232 full duplex or RS-485 half duplex; USB micro A/B connector 2.0; Ethernet TCP/IP
<b>ANNUNCIATORS:</b>	Gross, net, center of zero, standstill, lb, kg, tare, preset tare, multi-range/interval 1/2/3
<b>DISPLAY:</b>	LED, 0.56 in (14 mm), six-digit, 14-segment with decimal or comma
<b>KEYS/BUTTONS:</b>	Membrane panel, tactile feel
<b>DIMENSIONS (L × W × H):</b>	Panel: 6.00 × 4.95 × 4.00 in (152 × 126 × 102 mm) Universal: 9.87 × 4.00 × 9.38 in (248 × 102 × 235 mm)
<b>TEMPERATURE:</b>	Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: 14 °F to 122 °F (-10 °C to 50 °C)
<b>RATING/MATERIAL:</b>	Panel display: stainless steel, NEMA Type 4X, Type 12 and IP69K Panel mount controller: Aluminum Universal: stainless steel, IP69K
<b>WEIGHT:</b>	Panel: 2.5 lb (1.2 kg); Universal: 6.5 lb (2.9 kg)
<b>WARRANTY:</b>	Two-year limited
<b>EMC IMMUNITY:</b>	10 V/m

## APPROVALS



CC Number 13-080  
Class III/III  
rMax: 10,000



TC 8463  
T 8464  
Class III  
rMax: 10,000

Measurement  
Canada  
Approved

AM-5931C  
Class III/IIIHD  
rMax: 10,000



L.T.E.  
73Y8



Panel Mount

