Dual Line Strain Gage Meter

Model PAX2S

- Load cells, Strain Gage, and Pressure Sensors
- Universal Power Supply: 40 to 250 VAC or 21.6 to 250 VDC
- Built-in USB Port
- Meter Update Rate up to 160/Second
- Built-in Modbus Communications
- Setpoints: Dual and Quad Relay; Quad Sinking and Sourcing
- Retransmitted Analog Output
- Communications: RS232, RS485, DeviceNet, and Profibus

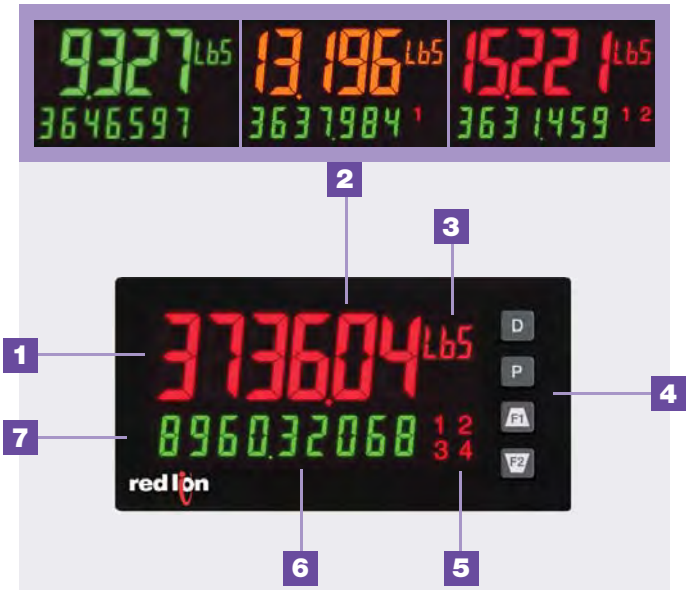
PAX2S—the next generation in panel meters.

Our next generation panel product line continues to expand as we announce the new Strain Gage Meter, the PAX2S. From its dual line display to its universal power supply, the meter is packed full of features that set it apart from any other meter. The input, gross, tare, total, min, max or setpoints can be displayed on the 0.7" high 6-digit Line 1 of the LCD display. Line 1 of the display also offers three programmable easy-to-read colors: red, orange and green. The color change can be tied to the setpoints; providing the operator with a visual display of changing conditions in the application. Line 2 of the display is a 0.35" high 9-digit, green LCD that can be programmed for any of the above parameters as well. The 9-digit display allows for totalizing applications that easily exceed the normal 6-digit displays. In addition to the dual line display, the meter also offers a 3-digit programmable mnemonic, which allows the user to add identification to the display value.

Beyond the display, the PAX2S provides the maximum in application flexibility, allowing users to stock just one meter for numerous applications. Users will find the strain gage input easy to connect to load cell, strain gage or pressure sensors. Plus, the PAX2S features a universal power input. Whether it's 40 to 250 VAC or 21.6 to 250 VDC, polarity does not matter, just hook it up.

With its dual line display and versatile functionality, the PAX2S delivers an ideal solution for applications that require two parameters to be visualized at the same time. For instance, the PAX2S can read a net weight while simultaneously displaying the material weight being added to the proces.

Take the dual line display with color change capability, add the universal power input capability and other user-friendly features, and you will understand why the PAX2S represents the next generation of panel meters.



1. Top Line: 6-Digit 0.7" (18 mm) Display
2. Programmable for Red, Orange or Green
3. Custom Unit Indicator
4. Tactile Feel Buttons
5. Setpoint Annunciators
6. Bottom Line: 9-Digit 0.35" (9 mm) Green Display
7. Built-In USB Port

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Panel Meter Specifications

DISPLAY: Positive image LCD
Top Line: 6-digit, 0.71" (18 mm) tri-color backlight (red, green or orange)
Display range: -199,999 to 999,999
Bottom Line: 9 digit, 0.35" (8.9 mm) green backlight
Display range: -199,999,999 to 999,999,999

POWER:
AC Power: 40 to 250 VAC, 50/60 Hz, 14 VA
DC Power: 21.6 to 250 VDC, 8 W

ANNUNCIATORS: *Backlight color:* Red
1 - setpoint alarm 1 is active
2 - setpoint alarm 2 is active
3 - setpoint alarm 3 is active
4 - setpoint alarm 4 is active
Units Label: programmable 3 digit units annunciator with tri-color backlight (red, green or orange)

KEYPAD: 2 programmable function keys, 4 keys total

A/D CONVERTER: 24 bit resolution

UPDATE RATES:
A/D conversion rate: programmable 5 to 160 readings/sec.

INPUT CAPABILITIES:
Connection Type: 4-wire bridge (differential) or 2-wire bridge (single-ended)
Range: Selectable for ± 24 mVDC or ± 240 mVDC

EXCITATION POWER: Jumper selectable
+5VDC @ 65mADC, +/- 2%
+10VDC @ 125mADC, +/- 2%

TOTALIZER:
Time Base: second, minute, hour or day
Batch: Can accumulate (gate) input display from a user input
Time Accuracy: 0.01% typical
Decimal Point: 0 to 0.0000
Scale Factor: 0.001 to 65.000
Low Signal Cut-out: -199,999 to 999,999
Total: 6 digits on Line 1; 9 digits on Line 2

CUSTOM LINEARIZATION:
Data Point Pairs: Selectable from 2 to 16
Display Range: -199,999 to 999,999
Decimal Point: 0 to 0.0000

MEMORY: Nonvolatile memory retains all programmable parameters and display values

USER INPUTS: Three programmable user inputs

ENVIRONMENTAL CONDITIONS:
Operating Temperature Range: 0 to 50 °C
Storage Temperature Range: -40 to 60 °C
Operating and Storage Humidity: 0 to 85% max. RH non-condensing
Altitude: Up to 2000 meters

CERTIFICATIONS AND COMPLIANCES: Refer to EMC Installation Guidelines section of the bulletin for additional information

CONNECTIONS: High compression cage-clamp terminal block

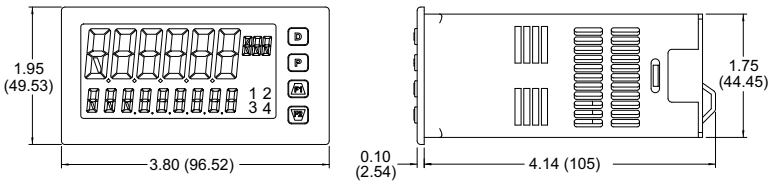
CONSTRUCTION: This unit is rated for NEMA 4X/IP65 indoor use; IP20 Touch safe; Installation Category II, Pollution Degree 2; One piece bezel/case; Flame resistant; Synthetic rubber keypad; Panel gasket and mounting clip included

WEIGHT: 8 oz. (226.8 g)

ORDERING INFORMATION:

MODEL NO.	DESCRIPTION	PART NUMBER
PAX2S	Dual Line Display Strain Gage Meter	PAX2S000
PAXCDS	Dual Setpoint Relay Output Card	PAXCDS10
	Quad Setpoint Relay Output Card	PAXCDS20
	Quad Setpoint Sinking Open Collector Output Card	PAXCDS30
	Quad Setpoint Sourcing Open Collector Output Card	PAXCDS40
PAXCDC	RS485 Serial Communications Card with Terminal Block	PAXCDC10
	Extended RS485 Serial Communications Card with Dual RJ11 Connector	PAXCDC1C
	RS232 Serial Communications Card with Terminal Block	PAXCDC20
	Extended RS232 Serial Communications Card with 9 Pin D Connector	PAXCDC2C
	DeviceNet Communications Card	PAXCDC30
	Profibus-DP Communications Card	PAXCDC50
PAXCDL	Analog Output Card	PAXCDL10

DIMENSIONS: *In inches (mm)*



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