Dual Line Strain Gage Meter

Red Lion PAX®2 Series

red lion®

▶▶▶ PAX2S - Dual Line Strain Gage Meter

With 9 dual line display and strain gage input, the PAX2S delivers an ideal solution for applications that require two parameters to be visualized at the same time.

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. 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 strain gage input easily connects to load cell, strain gage or pressure sensors. The PAX2S also features a universal power input. Whether it's 40 to 250 VAC or 21.6 to 250 VDC, polarity does not matter.
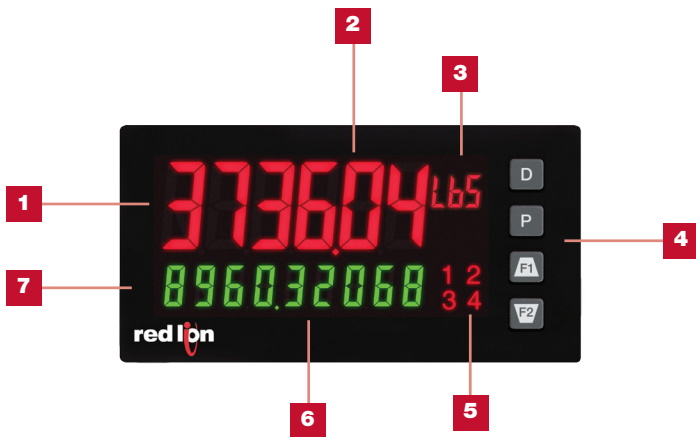

1. Top Line: 6-Digit 0.7" (18 mm) Display
2. Programmable for Red, Orange or Green
3. Custom Unit Indicator
4. Tactile Feel Buttons
5. Setpoint Annunciators
6. Bottom Line: 9-Digit 0.35" (9 mm) Green Display
7. Built-In USB Port

PRODUCT HIGHLIGHTS

> 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

FEATURES & BENEFITS

> Line 1 of the display offers three programmable easy-to-read colors: red, orange and green
> The display color can be tied to the setpoints
> The 9-digit display accommodates totalizing applications that easily exceed the normal 6-digit displays
> Offers a 3-digit programmable mnemonic; add identification to the display value
> Stock one meter for multiple applications

industrial automation

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, 20 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

INPUTS

Three programmable user inputs

ENVIRONMENTAL

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

CERTIFICATION & COMPLIANCE

Refer to EMC Installation Guidelines section of the bulletin for additional information
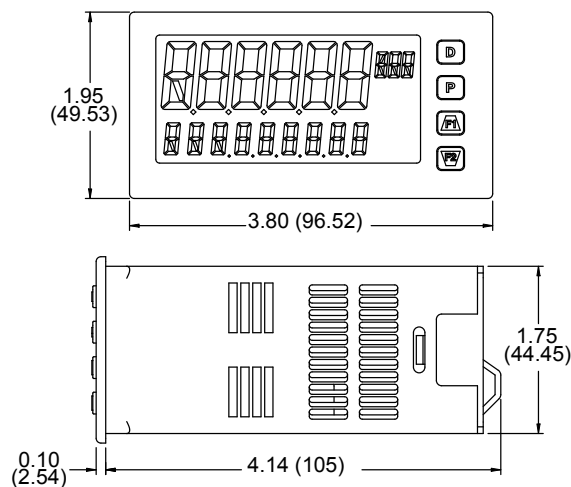
CONNECTIONS

High compression cage-clamp terminal block

MECHANICAL

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)

DIMENSIONS *In inches (mm)*

ORDERING INFORMATION

PART NUMBER	MODEL	DESCRIPTION
PAX2S000	PAX2S	Dual Line Display Strain Gage Meter
PAXCDS10	PAXCDS	Dual Setpoint Relay Output Card
PAXCDS20		Quad Setpoint Relay Output Card
PAXCDS30		Quad Setpoint Sinking Open Collector Output Card
PAXCDS40		Quad Setpoint Sourcing Open Collector Output Card
PAXCDC10	PAXCDC	RS485 Serial Communications Card with Terminal Block
PAXCDC1C		Extended RS485 Serial Communications Card with Dual RJ11 Connector
PAXCDC20		RS232 Serial Communications Card with Terminal Block
PAXCDC2C		Extended RS232 Serial Communications Card with 9 Pin D Connector
PAXCDC30		DeviceNet Communications Card
PAXCDC50		Profibus-DP Communications Card
PAXCDL10	PAXCDL	Analog Output Card
PX2FCA00	PX2FCA	Process Input/Remote Setpoint Input Card, with Digital Outputs
PX2FCA10		Heater Current Monitor Input Card, with Digital Outputs

As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our automation, Ethernet and cellular M2M technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron® and Sixnet®. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit www.redlion.net.