Dual Line Display Meter
Red Lion PAX®2A

red lion®

▶▶▶ Dual Line Display Meter

The Red Lion PAX2A provides the maximum in application flexibility, allowing users to stock just one meter for numerous applications.

The input, total, min., max. or setpoints can be displayed on the 0.7" high 6-digit main LCD display. The main 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. The second display line 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 accommodates totalizing applications that easily exceed the normal 6-digit displays. In addition to the dual displays, the meter also offers a 3-digit programmable custom unit indicator.

APPLICATIONS

> Industrial Automation
> Factory Automation
> Process Control Applications

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
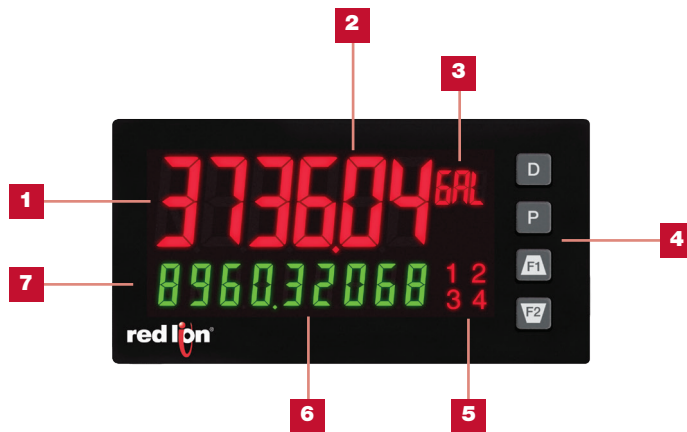6. Bottom Line: 9-Digit 0.35" (9 mm) Green Display
7. Built-In USB Port

PRODUCT HIGHLIGHTS

> Universal Process Inputs, DC Current, DC Voltage, Process Signals, Resistance, Thermocouples or RTDs
> Universal Power Supply: 50 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; Quad Sourcing/SSR Drive; and Dual Triac/Dual SSR Drive
> Retransmitted Analog Output
> Communications: RS232, RS485, DeviceNet, and Profibus

FEATURES & BENEFITS

> The Main display offers three programmable, easy-to-read colors: red, orange and green.
> The 9-digit display accommodates totalizing applications that easily exceed the normal 6-digit displays.
> The Red Lion PAX2A provides the maximum in application flexibility, allowing users to stock just one meter for numerous applications.
> The ideal solution for applications that require two parameters to be visualized at the same time.

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 CONNECTION

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

Current Input: ± 250 μADC, ± 2.5 mADC, ± 25 mADC, ± 250 mADC, and ±2 ADC
Voltage Input: ± 250 mVDC, ± 2.0 VDC, ± 10 VDC, ± 25 VDC, ± 100 ADC, and ± 200 VDC
Thermocouple Input: T, E, J, K, R, S, B, N, and C
RTD Input: 100Ω Pt (Alpha 0.00385 and 0.00392 120Ω Nickel (Alpha 0.00672) and 10Ω Copper (Alpha 0.00427)
Resistance Input: 100Ω, 1,000Ω, and 10 K Ω

EXCITATION POWER

Jumper selectable
Transmitter Power: +18VDC @ 50mA
Reference Voltage: +2VDC, +/- 2%
Reference Current: 1 mADC, +/- 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: 9 digits, display alternates between high order and low order readouts

CUSTOM LINEARIZATION

Data Point Pairs: Selectable from 2 to 16
Display Range: -199,999 to 999,999
Decimal Point: 0 to 0.0000
Ice Point Compensation: user value (0.00 to 650.00 μV/C)

MEMORY

Nonvolatile FRAM memory retains all programmable parameters and display values

All specifications are subject to change. Consult the company website for more information.

INPUTS

Two 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 & SYMBOL COMPLIANCE

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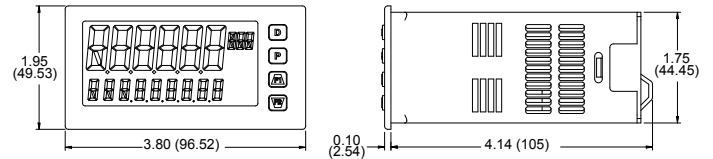
CONNECTIONS

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
PAX2A000	PAX2A	Dual Line Display Process 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
PAXCDS50		Dual Triac/Dual SSR Drive Digital Output Card
PAXCDS60		Quad Form C Relay Digital 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

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