



<b>Bezeichnung</b>	PAX2A
<b>Abmessungen</b>	97 x 50 x 105 mm
<b>Artikelnummer</b>	PAX2A000
<b>Zeichenhöhe</b>	18 mm oben / 8,9 mm unten
<b>Zeichenfarbe</b>	tri-color oben / grün unten
<b>Geberversorgung</b>	18 VDC @ 50 mA
<b>Bedienung</b>	frontseitig über Tastatur oder Software
<b>Schaltausgang</b>	optional Relaisausgangskarte, optional Transistorausgangskarte
<b>Analogausgang</b>	über Steckkarte
<b>Anzahl Zeichen</b>	6 oben / 9 unten
<b>Anzeige</b>	LCD (hinterleuchtet, dimmbar)
<b>Eingang</b>	Gleichspannung, Gleichstrom, Pt100, Thermoelement, Widerstand
<b>Format</b>	92 x 45 mm
<b>Art</b>	Normsignal, Temperatur, Frequenz, Multifunktionsanzeige, Zähler
<b>Messbereich</b>	200 mV - 200 V, $\pm 200 \mu\text{ADC}$ - $\pm 2 \text{ ADC}$ , $-200^\circ\text{C}$ - $850^\circ\text{C}$ , -199,999 - 999,999
<b>Ausrichtung</b>	horizontal
<b>Versorgungsspannung</b>	21,6 - 250 VDC, 50 - 250 VAC, optional: externes Netzteil 24 VDC



<b>Schutzgrad</b>	IP65 frontseitig
<b>Umgebungstemperatur</b>	0°C ... 50°C
<b>Schnittstellenausgang</b>	RS232 optional, RS485 optional, DeviceNet optional, Profibus-DP optional
<b>Bauart</b>	Einbaugeschäft
<b>Ausführung</b>	Digitalanzeige

## Dual Line Display Meter

Red Lion PAX<sup>®</sup>2A



### ▶▶▶ 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

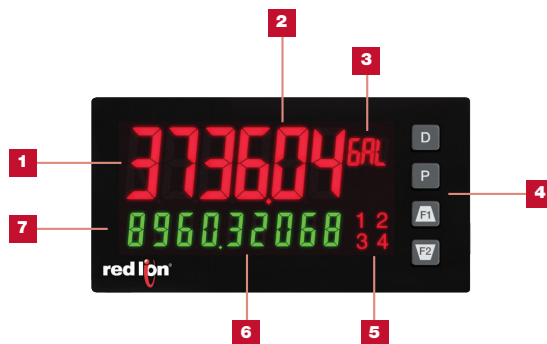


#### PRODUCT HIGHLIGHTS

- > 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.



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

industrial  
automation

▶▶▶ PAX2A

**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:  $\pm 250 \mu\text{ADC}$ ,  $\pm 2.5 \text{ mADC}$ ,  $\pm 25 \text{ mADC}$ ,  $\pm 250 \text{ mADC}$ , and  $\pm 2 \text{ ADC}$   
Voltage Input:  $\pm 250 \text{ mVDC}$ ,  $\pm 2.0 \text{ VDC}$ ,  $\pm 10 \text{ VDC}$ ,  $\pm 25 \text{ VDC}$ ,  $\pm 100 \text{ ADC}$ , and  $\pm 200 \text{ VDC}$   
Thermocouple Input: T, E, J, K, R, S, B, N, and C  
RTD Input:  $100\Omega \text{ Pt}$  (Alpha 0.00385 and 0.00392  $120\Omega \text{ Nickel}$  (Alpha 0.00672) and  $10\Omega \text{ Copper}$  (Alpha 0.00427)  
Resistance Input:  $100\Omega$ ,  $1,000\Omega$ , and  $10 \text{ K } \Omega$

**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  $\mu\text{V/C}$ )

**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

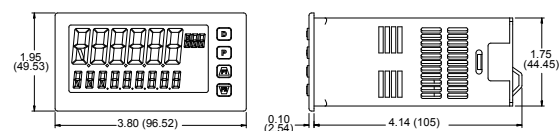
**CONNECTIONS**

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



[www.redlion.net](http://www.redlion.net)

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