

Red Lion Deluxe Panel Meters

- Process, Voltage, Current, Temperature & Strain Gage Inputs
- 5 Digit 0.56" Sunlight Readable Red Display (Green Optional)
- Variable Display Intensity
- 16 Point Scaling for Non-linear Processes
- Four Setpoint Alarm Outputs (Optional)
- 1/8 DIN, NEMA 4X/IP65 Front Bezel
- Digital Communication Options (Free Setup Software)
- Retransmitted Analog Output (Optional)

The PAX® Analog Panel Meters offer many features and performance capabilities to suit a wide range of industrial applications. Five different models handle various analog inputs with 3½ to 5 digit resolution.

The meters provide a MAX and MIN reading memory with programmable capture time. The capture time is used to prevent detection of false max or min readings which may occur during start-up or unusual process events. The signal totalizer (integrator) can be used to compute a time-input product. This is useful to provide a readout of totalized flow, calculate service intervals of motors or pumps. The totalizer can also accumulate batch weighing operations.

Four setpoint output can be configured to suit a variety of control and alarm requirements. A linear DC output (20 mA or 10 V) can be scaled independent of the input range and can track either the input, totalizer, max or min readings.

Communication and bus capabilities are also available as option cards. Readout values and setpoint alarm values can be controlled through the bus. Once the meters have been initially configured, the parameter list may be locked against further modification or only the setpoint values can be made front panel accessible.

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: PAXD0100

PAX A B C

A	Input
D	DC Voltage/Current
P	Process
H	AC TRMS Voltage/Current (requires 85-250V supply)
S	Strain Gage / Bridge
T	Thermocouple / RTD
B	LED Display
00	Red, Sunlight Readable
01	Green
C	Power
00	85 - 250 VAC
10	11 - 36 VDC, 24 VAC

Plug-In Options: *

PAXCDS10	Dual Form C Setpoint Relays (5 A @ 240 VAC or 28 VDC res.)
PAXCDS20	4 Form A Setpoint Relays (3 A @ 250 VAC or 30 VDC res.)
PAXCDS30	4 Setpoint Sinking Open Collector Outputs (0.1 A @ 50V)
PAXCDS40	4 Setpoint Sourcing Open Collector Outputs (0.1 A @ 30V)
PAXCDL10	Analog Output Card (0-20/4-20 mA, 0-10 VDC)
PAXCDC10	RS485 Serial Communications Card with Terminal Block
PAXCDC1C	Extended RS485 Card with Dual RJ11 Connector
PAXCDC20	RS232 Serial Communications Card with Terminal Block
PAXCDC2C	Extended RS232 Card with 9 Pin D Connector
PAXCDC30	DeviceNet Communications Card
PAXCDC40	RS485 Modbus Communications Card
PAXCDC4C	Extended Modbus Card with Dual RJ11 Connector
PAXCDC50	Profibus-DP Communications Card
SFCRUSB1	USB Programming Card, Cable & Software

*add -ASSY to PAX model number for factory installation of options & meter setup. Crimson software is a free download from the Red Lion website.

PAX ▶



SPECIFICATIONS

Range	Resolution	Input R	Max. Input	Basic Accy.
PAXD:				
±200 µADC	10 nA	1.111 kΩ	15 mA	0.03%+3d
±2 mADC	0.1 µA	111 Ω	50 mA	0.03%+3d
±20 mADC	1 µA	11 Ω	150 mA	0.03%+3d
±200 mADC	10 µA	1 Ω	500 mA	0.05%+3d
±2 ADC	0.1 mA	0.1 Ω	3 A	0.5%+3d
±200 mVDC	10 µV	1.066 MΩ	100 V	0.03%+3d
±2 VDC	0.1 mV	1.066 MΩ	300 V	0.03%+3d
±20 VDC	1 mV	1.066 MΩ	300 V	0.03%+3d
±300 VDC	10 mV	1.066 MΩ	300 V	0.05%+3d
100 Ω	0.01 Ω	(0.175 V)	30V	0.05%+3d
1000 Ω	0.1 Ω	(1.75 V)	30V	0.05%+3d
10 kΩ	1 Ω	(17.5 V)	30V	0.05%+3d
PAXP:				
20 mADC	1 µA	20 Ω	150 mA	0.03%+2d
10 VDC	1 mV	500 kΩ	300 V	0.03%+2d
PAXH: (TRMS AC or AC+DC, 50-400 Hz)				
200 mVAC	10 µV	686 kΩ	30 V	0.1%+40d
2 VAC	0.1 mV	686 kΩ	30 V	0.1%+20d
20 VAC	1 mV	686 kΩ	300 V	0.1%+20d
300 VAC	10 mV	686 kΩ	300 V	0.1%+30d
200 µAAC	10 nA	1.11 kΩ	15 mA	0.1%+40d
2 mAAC	0.1 µA	111 Ω	50 mA	0.1%+20d
20 mAAC	1 µA	11.1 Ω	150 mA	0.1%+20d
200 mAAC	10 µA	1.1 Ω	500 mA	0.1%+20d
5 AAC	1 mA	0.02 Ω	7 A	0.5%+5d
PAXS: (2 or 4 wire)				
±24 mVDC	1 µV	100 MΩ	30 V	0.02%+3d
±240 mVDC	10 µV	100 MΩ	30 V	0.02%+3d
PAXT:				
	Range	Accuracy 23°C	Accuracy 0-50°C	
100 Ω Pt 385/392	-200 to 850°C	0.4°C	1.6°C	
120 Ω Nickel 672	-80 to 260°C	0.2°C	0.5°C	
10 Ω Copper 427	-100 to 260°C	0.4°C	0.9°C	
TC Type T	-200 to 400°C	1.2°C	2.1°C	
TC Type E	-200 to 871°C	1.0°C	2.4°C	
TC Type J	-200 to 760°C	1.1°C	2.3°C	
TC Type K	-200 to 1372°C	1.3°C	3.4°C	
TC Type R, S	-50 to 1768°C	1.9°C	4.0°C	
TC Type B	100 to 300°C	3.9°C	5.7°C	
	300 to 1820°C	2.8°C	4.4°C	
TC Type N	-200 to 1300°C	1.3°C	3.1°C	
TC Type C	0 to 2315°C	1.9°C	6.1°C	
RTD Input:	2, 3 or 4 wire sensor, 10Ω max lead res. (3Ω on Cu RTD)			
Readout:	°C or °F, with 1° or 0.1° resolution			
Offset Range:	-19999 to 99999 digits			
Totalizer:	9 digit, 0.001 to 65,000 scale factor, 0.01% accuracy			
A/D Converter:	16 bits, 20 readings/sec.			
Control Inputs:	Three, jumper selectable sink/source, max. input 30 VDC continuous, not isolated to sensor input			
AC Power:	85 to 250 VAC 50/60 Hz, 15 VA.			
LV Power:	11 to 36 VDC, 11 W; 24 VAC, 50/60 Hz, 15 VA			
Input Isolation:	2300 Vrms to AC power, 500 Vrms to LV power, 500 Vrms to digital comm & analog out			
Sensor Power:	24 VDC, 50 mA for DC in, 5/10V on strain gage in			
Temperature:	0 to 50 °C operating, <85% RH (non-condensing)			
Connections:	Cage-clamp terminal block			
Dimensions:	1.95" H x 3.80" W x 4.1" D (50x97x105mm)			