

Red Lion Digital Panel Meters

- DC/AC Voltage & Current Measurements
- Process & Temperature Inputs
- Selectable Scaling & Decimal Position
- Large 0.56" High Red LED
- Relay Outputs for Setpoint Control & Alarms
- 1/8 DIN, NEMA 4X/IP65 Front



PAX Lite  

PAX Lite Meters offer flexibility in tough industrial applications. These meters can provide direct display of pressure, speed, flow and other process signals. User scaling and selectable decimal point allow the meter to read out in the desired units. Custom units labeling is available with the PAX Label Kit. A DIP switch controls the backlight for the units label. Enclosures and panel mounting kits are available to simplify system integration.

Front panel buttons on process & temperature meters can be disabled after setup.

Function	DC V/A	AC V/A	5A AC	AC HV	Loop	RTD	TC	Temperature	Process
Model:	PAXLVD, PAXLID	PAXLVA, PAXLIA	PAXLIT	PAXLHV	PAXLCL	PAXLRT	PAXLTC	PAXLT NEW	PAXLA
Digits:	3½ bi-polar	3½ bi-polar	3½	3	3½ bi-polar	4	4	5	5 bi-polar
Power:	115/230 VAC ±10%, switch select, 50/60 Hz, 6 VA				85-250 VAC, 50/60 Hz, 6 VA			50-250 VAC, 50/60 Hz, 12 VA 21.6-250 VDC, 6 W	
Operating Temp.:	0 to 60 °C, <85% RH (non-condensing)					0 to 50 °C, <85% RH (non-condensing)			

SPECIFICATIONS			
Range	Resolution	Max. Input	Basic Accy.
PAXLVD:			
±2 VDC	1 mV	75 VDC	0.1%+1d
±20 VDC	10 mV	300 VDC	0.1%+1d
±200 VDC	100 mV	300 VDC	0.1%+1d
±300 VDC	1 V	300 VDC	0.1%+1d
PAXLID:			
±200 µADC	0.1 µA	2 mA	0.1%+1d
±2 mADC	1 µA	20 mA	0.1%+1d
±20 mADC	10 µA	200 mA	0.1%+1d
±200 mADC	100 µA	1 A	0.15%+1d
±2 ADC	1 mA	3 A	0.5%+1d
±200 mVDC	100 µV	75 V	0.1%+1d
PAXLVA: (45-500 Hz)			
2 VAC	1 mV	75 V	0.1%+3d
20 VAC	10 mV	300 V	0.1%+3d
200 VAC	100 mV	300 V	0.1%+3d
300 VAC	1 V	300 V	0.1%+3d
PAXLIA: (45-500 Hz)			
200 µAAC	0.1 µA	2 mA	0.1%+3d
2 mAAC	1 µA	20 mA	0.1%+3d
20 mAAC	10 µA	200 mA	0.1%+3d
200 mAAC	100 µA	1 A	0.15%+3d
2 AAC	1 mA	3 A	0.5%+3d
200 mV	100 µV	75 V	0.1%+1d
PAXLA:			
±200 mVDC	10 µV	75 VDC	0.1% of span
±2 VDC	0.1 mV	75 VDC	0.1% of span
±20 VDC	1 mV	250 VDC	0.1% of span
±200 VDC	10 mV	250 VDC	0.1% of span
±10 VDC	1 mV	75 VDC	0.1% of span
±200 µADC	10 nA	15 mA	0.1% of span
±2 mADC	0.1 µA	50 mA	0.1% of span
±20 mADC	1 µA	150 mA	0.1% of span
±200 mADC	10 µA	500 mA	0.1% of span
Relay Outputs:	2 Form C, 5 A @ 240 VAC/28 VDC res., 1/8 HP @ 120 V		
DC Out.:	+24 VDC @ 100 mA (50 mA max if Vin < 50 V)		

PAXLIT:			
5 AAC	2.5 mA	8 A (50 A for 1 sec)	0.5% rdg+5d
Features:	Scaling & selectable decimal position, optional external CT		

PAXLHV:	Resolution	Input R	Basic Accy.
600 V	1 V	1 MΩ	0.1% rdg+2d (45-500 Hz)

PAXLCL:	Resolution	Input R	Max. In	Linearity
4-20 mADC	260d/mA	29.2 Ω	170 mA	0.05%+1d
10-50 mADC	105d/mA	11.8 Ω	170 mA	0.05%+1d
Features:	Wide span & offset adjustment range, 24 V isolated loop supply			

All Models:	
Reading Rate:	2.5/sec.
Input Isolation:	2300 Vrms, for 1 minute. to power (300 Vrms working)
Connections:	Cage-clamp terminal block
Dimensions:	1.95" H x 3.80" W x 4.1" D (50x97x105mm)

SPECIFICATIONS		
PAXLT:	Range	Accuracy 23°C
100 Ω Pt 385/392	-200 to 850°C	0.4°C
120 Ω Nickel 672	-80 to 260°C	0.2°C
10 Ω Copper 427	-100 to 260°C	0.4°C
TC Type T	-200 to 400°C (-328 to 752°F)	2.3°C
TC Type E	-200 to 871°C (-328 to 1600°F)	2.7°C
TC Type J	-200 to 760°C (-328 to 1400°F)	1.9°C
TC Type K	-200 to 1372°C (-328 to 2502°F)	2.3°C
TC Type R, S	-50 to 1768°C (-58 to 3214°F)	4.5°C
TC Type B	200 to 540°C (392 to 1004°F) 540 to 1820°C (1004 to 3308°F)	9.1°C 4.5°C
TC Type N	-200 to 1300°C (-328 to 2372°F)	2.8°C
TC Type C	0 to 2315°C (32 to 4199°F)	1.9°C
mV	-10.00 to 65.00	0.02 mV
RTD Input:	2, 3 or 4 wire sensor, 10Ω max per lead (3Ω on Cu RTD)	
Readout:	°C or °F, with 1° or 0.1° resolution	
Relay Outputs:	2 Form C, 5 A @ 240 VAC/28 VDC res., 1/8 HP @ 120 V	
Features:	Adjustable offset, Min/Max memory, 24 VDC out @ 50 mA	
PAXLRT:	Range	Accuracy 23°C
100 Ω Pt 385/392	-200 to 850°C (-328 to 1562°F)	0.3°C
RTD Input:	3 wire sensor, 20Ω max lead res.	
Readout:	°C or °F, with 1° or 0.1° resolution	
Features:	Adjustable offset, digital filter, Min/Max memory, open/short sensor detection	
PAXLTC:	Range	Accuracy 23°C
TC Type T	-200 to 400°C (-328 to 752°F)	0.8°C (1.4°F)
TC Type E	-200 to 1000°C (-328 to 1832°F)	0.8°C (1.4°F)
TC Type J	-200 to 760°C (-328 to 1400°F)	0.8°C (1.4°F)
TC Type K	-200 to 1250°C (-328 to 752°F)	0.8°C (1.4°F)
TC Type R, S	0 to 1768°C (32 to 3214°F)	2.1°C (3.8°F)
TC Type B	150 to 1820°C (302 to 3308°F)	2.3°C (4.1°F)
TC Type N	-200 to 1300°C (-328 to 2372°F)	0.8°C (1.4°F)
mV	-10.00 to 80.00	0.01%
Readout:	°C or °F, with 1° resolution (0.1° for T, E, J, K, N)	
Features:	Adjustable offset, digital filter, Min/Max memory	

ORDERING INFORMATION	
PAXLVD00	DC Volt Meter
PAXLID00	DC Current Meter
PAXLA000	DC Voltage/Current Process Meter with Dual Relays (not UL)
PAXLA0U0	DC Voltage/Current Process Meter with Dual Relays (UL)
PAXLIA00	AC Current Meter
PAXLIT00	5 Amp AC Current Meter
PAXLVA00	AC Volt Meter
PAXLHV00	AC High Voltage Monitor
PAXLTC00	Thermocouple Meter
PAXLRT00	RTD Meter
PAXLTO00	TC/RTD Temperature Meter with Dual Relays (not UL)
PAXLTOU0	TC/RTD Temperature Meter with Dual Relays (UL)
PAXLCL00	Current Loop Meter
Accessories	
PAXLBK30	Units Label Kit