



MODEL PAXLPV - PAX LITE PROCESS VOLT METER



- WIDE SPAN & OFFSET SCALING RANGE
- 3 1/2-DIGIT, 0.56" (14.2 mm) HIGH LED READOUT
- 24 VDC EXCITATION SUPPLY
- OVER-RANGE INDICATION
- SELECTABLE DECIMAL POINTS
- NEMA 4X/IP65 SEALED FRONT BEZEL
- OPTIONAL CUSTOM UNITS OVERLAY W/BACKLIGHT
- ±25 VOLT DC MAXIMUM INPUT



GENERAL DESCRIPTION

The premium features of the PAX Lite Series can now be applied to measurement of process variables. With its high sensitivity and programmability, the PAX Lite Process Volt Meter can be set up for a wide variety of applications. In most plants the PAXLPV can be used for 90 to 95% of Process Volt meter needs for readout of pressure, flow, temperature, level and other variables. The meter has been specifically designed for harsh industrial environments. With NEMA 4X/IP65 sealed bezel and extensive testing of noise effects to CE requirements, the meter provides a tough yet reliable application solution. This allows the PAXLPV to be used in dirty, hostile environments and in wash-down areas. The 3½-digit bi-polar display (minus sign displayed when voltage is negative) features 0.56" (14.2 mm) high, 7-segment LEDs for easy reading.

SAFETY SUMMARY

All safety related regulations, local codes and instructions that appear in the literature or on equipment must be observed to ensure personal safety and to prevent damage to either the instrument or equipment connected to it. If equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.



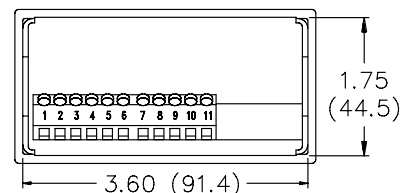
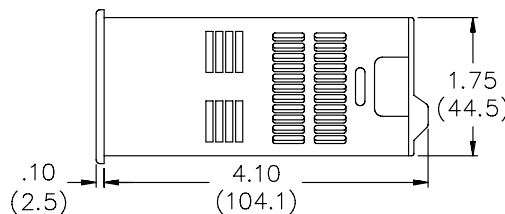
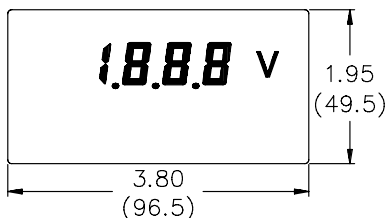
CAUTION: Risk of Danger.
Read complete instructions prior to installation and operation of the unit.



CAUTION: Risk of electric shock.

DIMENSIONS In inches (mm)

Note: Recommended minimum clearance (behind the panel) for mounting clip installation is 2.1" (53.4) H x 5.0" (127) W.



ORDERING INFORMATION

Meter Part Numbers

PAXL	PV	0	0
------	----	---	---



PV - Process Volt Meter

Accessories Part Numbers

TYPE	MODEL NO.	DESCRIPTION	PART NUMBERS
Accessories	PAXLBK	Units Label Kit Accessory	PAXLBK30

GENERAL METER SPECIFICATIONS

- DISPLAY:** 3 1/2-digit, 0.56" (14.2 mm) high, 7-segment LED, (-) minus sign displayed when current or voltage is negative. Decimal points inserted before 1st, 2nd, or 3rd least significant digits by DIP switch selection.
- OVER-RANGE INDICATION:** Indicated by blanking 3 least significant digits.
- POWER:**
 - AC Power:** 85 to 250 VAC, 50/60 HZ, 6 VA
 - Isolation:** 2300 Vrms for 1 min. to all inputs.
- INPUT SENSITIVITY:** (Numerical Readout Change/Volt) Adjustable from 40 units/volt to 1000 units/volt. Max. allowable input voltage, ± 25 volts DC.
- INPUT RESISTANCE:** 1 M Ω
- SCALING RANGE:**
 - SPAN:** 32 coarse steps (*binary progression with 5 DIP switches*) Each step providing approx. 40 numerical units/volt/step sensitivity. Fine adjust brackets the coarse step increments.
 - OFFSET:** 16 coarse steps (*binary progression with 4 DIP switches*) with \pm switch to add or subtract offset. Each step adds or subtracts approximately 175 from the numerical display for a total offset range of ± 2700 . Fine control brackets the steps.
- LINEARITY:** $\pm(0.05\% \pm 1 \text{ digit})$
- READING RATE:** 2.5 updated readings / second, nominal.
- RESPONSE TIME:** 1 second to settle for step change.
- LOW FREQUENCY NOISE REJECTION:**
 - Normal Mode Rejection:** 63 dB @ 50/60 Hz
 - Common Mode Rejection:** 100 dB, DC to 50/60 Hz
- ENVIRONMENTAL CONDITIONS:**
 - Operating Temperature:** 0° to 60°C
 - Storage Temperature:** -40° to 80°C
 - Operating and Storage Humidity:** 85% max. relative humidity (non-condensing)
 - Span Temperature Coeff.:** 100 PPM/°C
 - Offset Temperature Coeff.:** 100 PPM/°C
 - Vibration According to IEC 68-2-6:** Operational 5 to 150 Hz, in X, Y, Z direction for 1.5 hours, 2g's.
 - Shock According to IEC 68-2-27:** Operational 30 g (10g relay), 11 msec in 3 directions.
 - Altitude:** Up to 2000 meters
- CERTIFICATIONS AND COMPLIANCES:**
 - SAFETY**
 - UL Recognized Component, File # E179259, UL61010A-1, CSA C22.2 No. 1010-1
 - Recognized to U.S. and Canadian requirements under the Component Recognition Program of Underwriters Laboratories, Inc.
 - UL Listed, File # E137808, UL508, CSA C22.2 No. 14-M95
 - LISTED by Und. Lab. Inc. to U.S. and Canadian safety standards
 - Type 4X Enclosure rating (Face only), UL50

IECEE CB Scheme Test Certificate # US/8843A/UL

CB Scheme Test Report # 04ME11209-20041018

Issued by Underwriters Laboratories, Inc.

IEC 61010-1, EN 61010-1: Safety requirements for electrical equipment for measurement, control, and laboratory use, Part 1.

IP65 Enclosure rating (Face only), IEC 529

IP20 Enclosure rating (Rear of unit), IEC 529

ELECTROMAGNETIC COMPATIBILITY

Emissions and Immunity to EN 61326: Electrical Equipment for Measurement, Control and Laboratory use.

Immunity to Industrial Locations:

Electrostatic discharge	EN 61000-4-2	Criterion A 4 kV contact discharge 8 kV air discharge
Electromagnetic RF fields	EN 61000-4-3	Criterion B 10 V/m
Fast transients (burst)	EN 61000-4-4	Criterion A 2 kV power 2 kV signal
Surge	EN 61000-4-5	Criterion A 1 kV L-L, 2 kV L&N-E power 1 kV signal
RF conducted interference	EN 61000-4-6	Criterion A 3 V/rms
Power frequency magnetic fields	EN 61000-4-8	Criterion A 30 A/m
Voltage dip/interruptions	EN 61000-4-11	Criterion A 0.5 cycle

Emissions:

Emissions EN 55011 Class B

Notes:

1. *Criterion A: Normal operation within specified limits.*

2. *Criterion B: Temporary loss of performance from which the unit self-recovers.*

13. **EXCITATION SUPPLY:** 24 VDC @ 50 mA max. Regulated and isolated.

14. **CONNECTIONS:** High compression cage-clamp terminal block

Wire Strip Length: 0.3" (7.5 mm)

Wire Gauge: 30-14 AWG copper wire

Torque: 4.5 inch-lbs (0.51 N-m) max.

15. **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. Panel Gasket and mounting clip included.

16. **WEIGHT:** 0.65 lbs (0.24 kg)