



## MODEL PAXLA - PAX LITE DC VOLT/CURRENT/PROCESS METER



- 5 DIGIT, 0.56" HIGH RED LED DISPLAY
- PROGRAMMABLE SCALING AND DECIMAL POINTS
- PROGRAMMABLE USER INPUT
- DUAL 5 AMP FORM C RELAY
- UNIVERSALLY POWERED
- NEMA 4X/IP65 SEALED FRONT BEZEL
- OPTIONAL CUSTOM UNIT OVERLAY W/ BACKLIGHT
- MINIMUM AND MAXIMUM DISPLAY CAPTURE





### GENERAL DESCRIPTION

The PAXLA is a versatile meter available as a DC volt, current, or process meter with scaling and dual Form C relay outputs. The meter is programmed through the front panel buttons and the use of jumpers. The RST Key will also function as a front panel display reset.

Once the front panel programming is complete, the buttons can be disabled by a user input setting. The meter has been specifically designed for harsh industrial environments. With a NEMA 4X/IP65 sealed bezel and extensive testing to meet CE requirements, the meter provides a tough yet reliable application solution.

### SAFETY SUMMARY

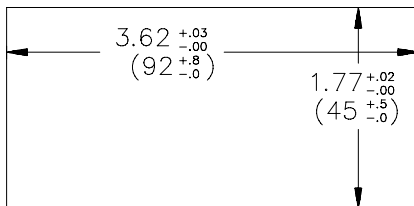
All safety regulations, local codes and instructions that appear in this and corresponding literature, or on equipment, must be observed to ensure personal safety and to prevent damage to either the instrument or equipment connected to it. If equipment is used in a manner not specified by the manufacturer,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

|   |  |
|---|--|
| <br><b>CAUTION: Risk of Danger.</b><br>Read complete instructions prior to installation and operation of the unit. | <br><b>CAUTION: Risk of electric shock.</b> |
|---|--|

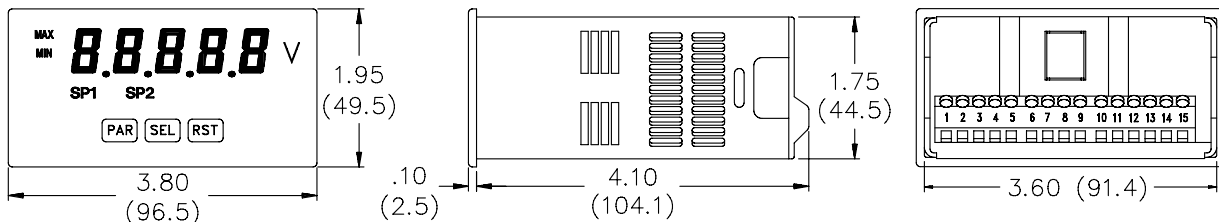
### ORDERING INFORMATION

| MODEL NO. | DESCRIPTION                                       | PART NUMBER |
|-----------|---|-------------|
| PAXLA     | Volt/Current/Process Meter with dual Relay Output | PAXLA000    |
| PAXLBK    | Unit Label Kit Accessory                          | PAXLBK10    |

PANEL CUT-OUT



### DIMENSIONS In inches (mm)



### SPECIFICATIONS

- DISPLAY:** 5 digit, 0.56" (14.2 mm) intensity adjustable Red LED (-19999 to 99999)
- POWER REQUIREMENTS:**  
 AC POWER: 50 to 250 VAC 50/60 Hz, 12 VA  
 Isolation: 2300 Vrms for 1 min. to all inputs and outputs  
 DC POWER: 21.6 to 250 VDC, 6 W  
 DC Out: +24 VDC @ 100 mA if input voltage is greater than 50 VAC/VDC  
 +24 VDC @ 50 mA if input voltage is less than 50 VDC
- INPUT RANGES:** Jumper Selectable  
**D.C. Voltages:** 200 mV, 2 V, 20 V, 200 V, 10 V

| INPUT RANGE | ACCURACY @ 23 °C LESS THAN 85% RH | INPUT IMPEDANCE | MAX INPUT SIGNAL | RESOLUTION | TEMP. COEFFICIENT |
|-------------|-----------------------------------|-----------------|------------------|------------|-------------------|
| 200 mV      | 0.1% of span                      | 1.033 MΩ        | 75 VDC           | 10 μV      | 70 ppm /°C        |
| 2 V         | 0.1% of span                      | 1.033 MΩ        | 75 VDC           | 0.1 mV     | 70 ppm /°C        |
| 20 V        | 0.1% of span                      | 1.033 MΩ        | 250 VDC          | 1 mV       | 70 ppm /°C        |
| 200 V       | 0.1% of span                      | 1.033 MΩ        | 250 VDC          | 10 mV      | 70 ppm /°C        |
| 10 V        | 0.1% of span                      | 538 KΩ          | 75 V             | 1 mV       | 70 ppm /°C        |

**D.C. Currents:** 200 μA, 2 mA, 20 mA, 200 mA

| INPUT RANGE | ACCURACY @ 23 °C LESS THAN 85% RH | INPUT IMPEDANCE | MAX INPUT SIGNAL | RESOLUTION | TEMP. COEFFICIENT |
|-------------|-----------------------------------|-----------------|------------------|------------|-------------------|
| 200 μA      | 0.1% of span                      | 1.111 KΩ        | 15 mA            | 10 nA      | 70 ppm /°C        |
| 2 mA        | 0.1% of span                      | 111 Ω           | 50 mA            | 0.1 μA     | 70 ppm /°C        |
| 20 mA       | 0.1% of span                      | 11 Ω            | 150 mA           | 1 μA       | 70 ppm /°C        |
| 200 mA      | 0.1% of span                      | 1 Ω             | 500 mA           | 10 μA      | 70 ppm /°C        |

**D.C. Process:** 4 to 20 mA, 1 to 5 VDC, 0/1 to 10 VDC

| INPUT RANGE | SELECT RANGE        |
|-------------|---------------------|
| 4 - 20 mA   | Use the 20 mA range |
| 1 - 5 VDC   | Use the 10V range   |
| 1 - 10 VDC  | Use the 10V range   |

### 4. OVERRANGE/UNDERRANGE INDICATION:

**Input Overrange Indication:** "OL OL"

**Input Underrange Indication:** "UL UL"

**Display Overrange/Underrange Indication:** "....."/"....."

### 5. A/D CONVERTER: 16 bit resolution

### 6. UPDATE RATES:

A/D conversion rate: 20 readings/sec.

Display update: 500 msec min.

**7. USER INPUT:**

User Input: Software selectable pull-up (24.7 K $\Omega$ ) or pull-down resistor (20 K $\Omega$ ) that determines active high or active low input logic.

Trigger levels: V<sub>IL</sub> = 1.0 V max; V<sub>IH</sub> = 2.4 V min; V<sub>MAX</sub> = 28 VDC  
Response Time: 5 msec typ.; 100 msec debounce (activation and release)

**8. MEMORY:** Nonvolatile E<sup>2</sup>PROM retains all programming parameters when power is removed.**9. OUTPUT:**

**Type:** Single FORM-C relay

**Isolation To Sensor & User Input Commons:** 1400 Vrms for 1 min.

Working Voltage: 150 Vrms

**Contact Rating:** 5 amps @ 120/240 VAC or 28 VDC (resistive load), 1/8 H.P. @ 120 VAC (inductive load)

**Life Expectancy:** 100,000 minimum operations

**Response Time:**

Turn On Time: 4 msec max.

Turn Off Time: 4 msec max.

**10. ENVIRONMENTAL CONDITIONS:**

Operating temperature: 0 to 50 °C

Storage temperature: -40 to 70 °C

Operating and storage humidity: 0 to 85% max. RH (non-condensing)

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 2,000 meters

**11. 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.

**12. CONSTRUCTION:** This unit is rated for NEMA 4X/IP65 outdoor 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.

**13. CERTIFICATIONS AND COMPLIANCES:****SAFETY**

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

Type 4X Enclosure rating (Face only), UL50

**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<br>4 kV contact discharge<br>8 kV air discharge |
| Electromagnetic RF fields | EN 61000-4-3  | Criterion A<br>10 V/m                                       |
| Fast transients (burst)   | EN 61000-4-4  | Criterion B<br>2 kV power<br>1 kV signal                    |
| Surge                     | EN 61000-4-5  | Criterion A<br>1 kV L-L,<br>2 kV L&N-E power                |
| RF conducted interference | EN 61000-4-6  | Criterion A<br>3 V/rms                                      |
| Voltage dip/interruptions | EN 61000-4-11 | Criterion A<br>0.5 cycle                                    |
| <b>Emissions:</b>         |               |   |
| Emissions                 | EN 55011      | Class A   |

**Notes:**

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

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

**14. WEIGHT:** 10.4 oz. (295 g)