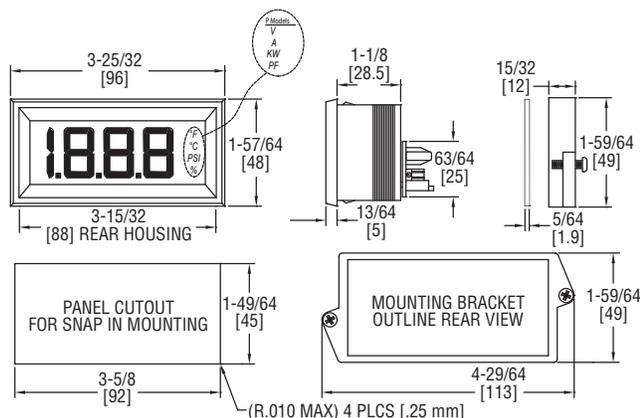




Series DPMA-4 Adjustable LCD Digital Panel Meters

Specifications - Installation and Operating Instructions



Series DPMA-4 Adjustable LCD Digital Panel Meter offers a 3-1/2 digit display for easy viewing in a standard 1/8 DIN package. Unit accepts 4 to 20 mA DC inputs with a wide bipolar span and zero adjustment. Standard features include field selectable engineering units and decimal point positions. Choose from red, amber, or green segments for easy viewing at a distance. A 24 VDC power supply is required for the operation of the backlight.

INSTALLATION

The Series DPMA-4 is designed to snap into a 3.62" (92 mm) W x 1.77" (45 mm) H panel cutout. No additional hardware is required.

WIRING

The unit is powered by a 4 to 20 mA loop and the screw terminal for wiring is located on the back of the adder board marked with + SIG -. The backlighting requires a 24 VDC power supply and should be connected to terminals identified with +pwr-.

TYPICAL LOOP CONNECTION

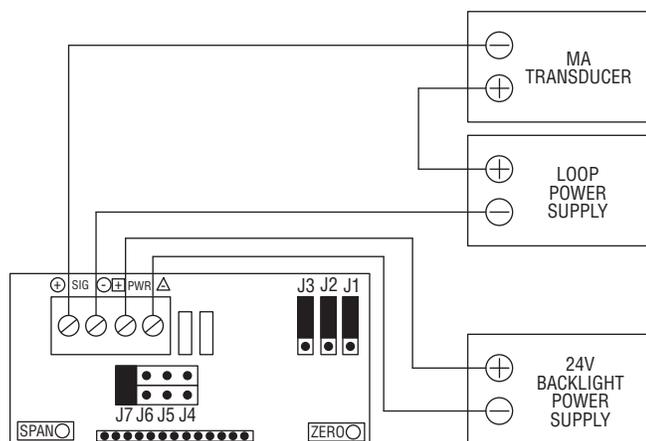


Figure 1

Note: If backlight supply is not loop supply, ground should be referenced together.

SPECIFICATIONS

Input: 4 to 20 mA.

Input Impedance: 300Ω nominal.

Accuracy: ±(0.05% FS + 1 count).

Power Supply: Powered by control loop.

Backlight Power Supply: 24 VDC @ 35 mA typical.

Span and Zero: Adjustable (±1999 counts).

Display: 3-1/2 digits, 7 segments, 1" (25.4 mm) H.

Decimal Points: 3-position, user selectable.

Engineering Units: DPMA-XXX: °F, °C, %, PSI; DPMA-XXXP: V, A, KW, PF.

Polarity: Automatic, "-" displayed.

Operating Temperature: 32 to 122°F (0 to 50°C).

Storage Temperature: -4 to 158°F (-20 to 70°C).

Mounting: Snap-in panel mount or clamp (gasket included).

Connection: Screw terminals.

Conversion Rate: 3 per second.

Warm-up: 10 minutes typical.

Weight: 4 oz (113.4 g).

Agency Approvals: RoHS.

OPERATION

Selecting Engineering Units

Four sets of jumper pins are located in the back of the meter, between the meter and the adder board. Move the jumper to fit over the appropriate pins which correspond to the desired engineering units. See Figure 1 Example shows °C turned on.

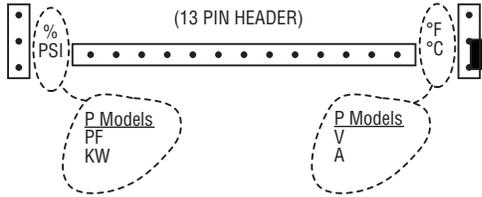


Figure 2

Selecting Decimal Point Position

Four decimal point positions are available on the digital process meter, J4-J7. Move the jumper to correspond to the desired decimal point location. See Figure 3.

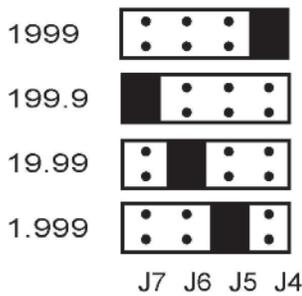


Figure 3

Setting Min/Max Display Value J1, J2, J3 (See Figure 4 & 5):

If:

Min Display is ≤ 0 **or**

Min Display is > 0 **and** Max Display \div Min Display ≥ 5 ,

Then:

J1, J2 & J3 should be all set to the top jumper. (See Figure 4).

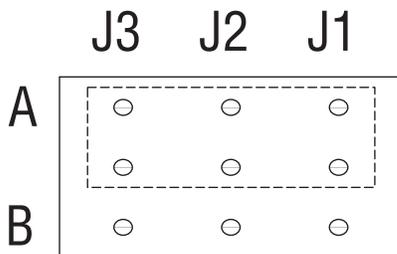


Figure 4

If:

Min Display is > 0 **and** Max Display \div Min Display < 5 ,

Then:

J1, J2, J3 should be all set to the jumper. (See Figure 5).

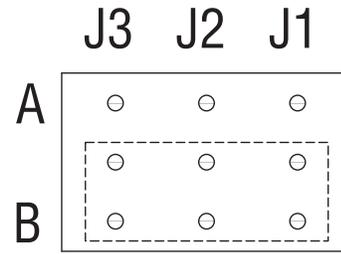


Figure 5

MAINTENANCE/REPAIR

Upon final installation of the Series DPMA-4, no routine maintenance is required. The Series DPMA-4 is not field serviceable and should be returned if repair is needed. Field repair should not be attempted and may void warranty.

WARRANTY/RETURN

Refer to "Terms and Conditions of Sale" in our catalog and on our website. Contact customer service to receive a Return Goods Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem plus any additional application notes.