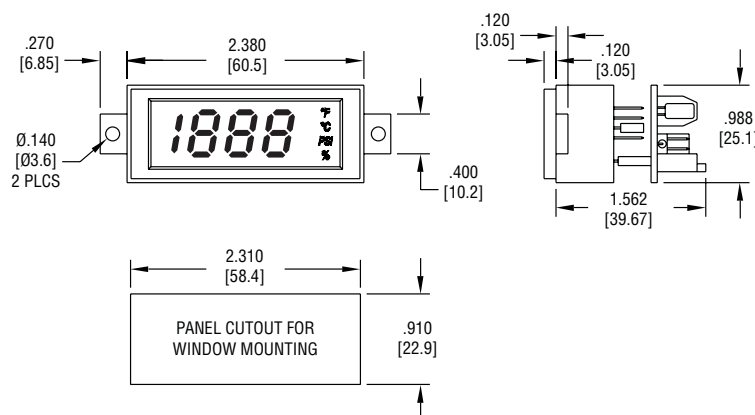




Series DPMW LCD Digital Panel Meters

Specifications - Installation and Operating Instructions



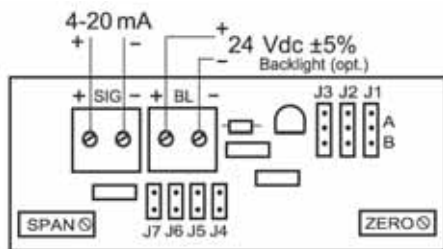
The Series DPMW LCD Digital Panel Meter is designed with a 3-1/2 digit, high contrast LCD display. The colored segments are available in red, amber, or green - ideal for viewing at a distance. The Series DPMW features user selectable engineering units, selectable decimal point position and adjustable zero and span. The meter accepts a 4 to 20 mA input signal for pressure, level, flow, and temperature transmitter. A 24 VDC power supply is required to illuminate the colored segments. The series DPMW can be quickly installed in a window cutout.

INSTALLATION

The Series DPMW is designed for window mounting in a 2.31" (58.4 mm) W x .91" (22.9 mm) H panel cutout.

WIRING

The unit is powered by a 4-20 mA loop and the screw terminals for wiring are 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 + B/L -.



REAR VIEW

SPECIFICATIONS

Inputs: 4-20 mA DC.

Input Impedance: 300Ω nominal.

Accuracy: ±(0.1% FS + 2 count).

Backlight Power Supply: 24 VDC @ 35 mA typical.

Span and Zero: Adjustable. (± 1999).

Display: 3-1/2 digits, 7 segments, 0.45" (11.4 mm) H.

Decimal Points: 3-position, user selectable.

Annunciator: °F, °C, %, PSI.

Polarity: Automatic, "-" displayed.

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

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

Mounting: Window mount.

Connection: Screw terminals.

Weight: 2 oz (56.7 g).

Conversion Rate: 3 per second.

Warm-Up: 10 minutes typical.

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

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.

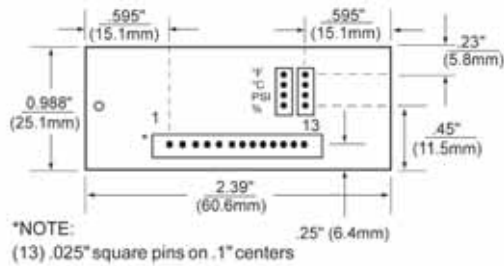


FIGURE 1

Selecting Decimal Point Position

Four decimal point positions are available on the digital panel meter. Move the jumper to correspond to the desired decimal point location. See Figure 2.

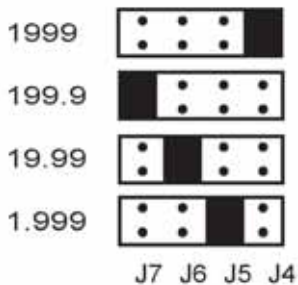


FIGURE 2

Setting J1, J2, J3 (See Figure 3 & 4):

If:

The minimum display is ≤ 0 or
Minimum display is > 0 and the (maximum display/minimum display) ≥ 5 ;

The J1, J2 & J3 should be all set to the top jumper (see Figure 3).

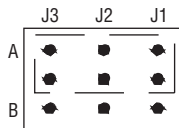


FIGURE 3

If:

The minimum display is > 0 and the (maximum display/minimum display) < 5 ;

The J1, J2 & J3 should be all set to the bottom jumper (see Figure 4).

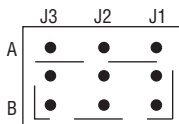


FIGURE 4

MAINTENANCE

Upon final installation of the Series DPMW LCD Digital Process Meters, no routine maintenance is required. A periodic check of the system calibration is recommended. The Series DPMW is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return good authorization number before shipping.