

PM-4 DIGITAL PRESSURE INDICATOR



DESCRIPTION

The PM-4 is a 4 1/2 digit, high accuracy LED panel meter designed to work with Proportion-Air's QB/BB electropneumatic control valves and transducers. The meter is capable of receiving single ended voltage, differential voltage, and sinking current input. It features a large LED display that is visible in virtually any light or industrial environment.

CONNECTION PROCEDURE

See Figure 1 for connectors location

PM-4-E Voltage signal unit:

- a. Connect +8 to +18Vdc to "Vcc" connector.
- b. Connect power supply common to "Gnd" connector.
- c. Connect signal input to "+Input" connector.

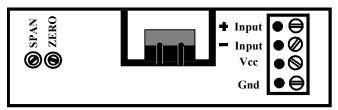
PM-4-D Differential voltage signal unit:

- a. Connect +8 to +18Vdc to "Vcc" connector.
- b. Connect power supply common to "Gnd" connector.
- c. Connect signal positive to "+Input" connector.
- d. Connect signal negative to "-Input" connector.

PM-4-I Sinking Current Input unit:

- a. Connect +8 to +18Vdc to "Vcc" connector.
- b. Connect power supply common to "Gnd" connector.
- c. Connect signal to "+Input" connector.

NOTE: A robust ground is required on the PM-4-D





- 4 1/2 digit display
- LED is visible in almost any application environment
- Compatible with Proportion-Air electro-pneumatic

valves and transducers.

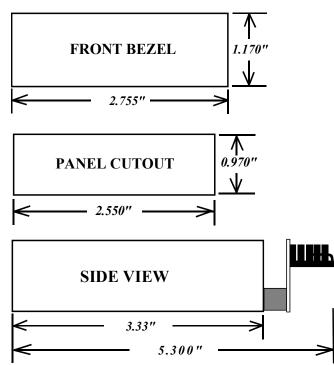
SPECIFICATIONS

Input Impedance: Normal Mode Rejection:	>1 megohm 120dB at multiple of 50/60Hz
Common Mode Rejection:	86dB at DC; greater than
Common Mode Voltage:	Depends on range of 20dB at multiples of 50/60Hz unit, but is typically \pm 10VDC
Accuracy:	0.1 percent of reading
Zero Stability:	Autozeroed $\pm 10 \mu V$ at all
	ranges; <u>+</u> 1µV/°C typical
Conversion Rate:	2.5 readings per second
Polarity:	Automatic
Overload Indication:	When input exceeds full
	scale on any range, the most significant "1" digit and "+" or "-" symbol is with all other digits blank.
Power Requirements:	+8 to +18VDC at 225mA
Warmup Time:	10 seconds to specified accuracy

DECIMAL POINT ADJUSTMENT

By desoldering one jumper and soldering another, the PM-4 decimal point can be adjusted. Decimal point jumpers are located on the back of the panel meter to the immediate upper right of the zero potentiometer. There are four options each clearly marked. Identify the jumper that corresponds to the present decimal configuration. Desolder jumper between solder pads. Select new decimal solder pads and solder between them. Recalibrate as required.

DIMENSIONS



CALIBRATION PROCEDURE

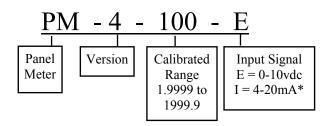
The PM-4 is factory calibrated. Should further calibration be required, please follow these procedures.

Connect your panel meter as described in "CONNECTION PROCEDURE" Section. With zero signal input, turn zero potentiometer all the way clockwise (clock wise increases output and counter clock wise decreases output). Apply maximum signal input to unit and adjust span potentiometer until

the maximum desired number is achieved.

NOTE: Zero offset is not available

HOW TO ORDER



***NOTE** Current indicators are available for use with the DSI. If current indicator is desired for use with a BB or QB unit, a sourcing output option must be incorporated in the model number, S216 for BB series or S589 for QB series.

Proportion-Air products are warranted to the original purchaser only against defects in material or workmanship for one (1) year from the date of manufacture. The extent of Proportion-Air's liability under this warranty is limited to repair or replacement of the defective unit at Proportion-Air's option. Proportion-Air shall have no liability under this warranty where improper installation or filtration occurred. All specifications are subject to change without notice. THIS WARRANTY IS GIVEN IN LIEU OF, AND BUYER HEREBY EXPRESSLY WAIVES, WARRANTIES OR LIABILITIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY OBLIGA-TION OF PROPORTION-AIR WITH REGARD TO CONSEQUENTIAL DAMAGES, WARRANTIES OF MERCHANTABILITY, DESCRIP-TION, AND FITNESS FOR A PARTICULAR PURPOSE.

WARNING: Installation and use of this product should be under the supervision and control of properly qualified personnel in order to avoid the risk of injury or death.

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