

Precision Digital Manometer

200 millibar to 10 bar available in
mmHG, mBar InWC. and PSI

FEATURES

- True 10,000:1 Dynamic Pressure Range
- Readings Available in mmHG, mBar, InWC, or PSI
- Precision Accuracy
- Easy to Read 3½ Digit Display
- Measures Positive and Negative (Vacuum) Pressure
- 100+ Hour Battery Life
- Two Low Battery Indicators
- Internal Pressure Sensor

APPLICATIONS

- Pneumatic Applications
- Medical Instrumentation Calibration
- HVAC and Flow Monitoring
- Transmitter Servicing
- Laboratory Measurements

GENERAL DESCRIPTION

The PDM Series is comprised of nine standard models of precision digital manometers covering full scale pressure ranges from 20 inches water column (0.7 psi) up through 10 bar (150 psi). Different pressure scales and units of pressure measurement, including PSI, mmHg, and millibars are available to fit a wide variety of applications from industrial pneumatics and HVAC flow to medical equipment and laboratory calibrations.

These lightweight, handheld meters have internal pressure sensors and feature shock mounted electronics, industrial rocker switches and a sturdy ABS plastic case for exceptional durability and reliability in tough industrial environments. A chrome-plated locking quick disconnect is provided for pressure connection.

The PDM models offer wide dynamic pressure ranges as they have true high and low pressure ranges. This is not just a change of pressure units but a true change of the pressure range and resolution. These 3½ digit meters feature 0.05% resolution with 0.50% (± 1 count) accuracy.



5

All meters are extremely easy to use and maintain as the large 12.7mm high LCD digits are easy to read, even in direct sunlight. By using low power CMOS circuitry, average battery life is 150 hours. And this is without any battery charging which is difficult to do in the field and is always forgotten about until its time to use the meter. For added safety there are also two low battery indicators. The "Lo Bat" indication on the display comes on when there are 10 hours of battery life remaining and the display reading is still accurate. When the battery drains down such that accuracy is no longer within specification, the display flashes on and off.

All PDM meters come with a compact protective carrying case, a variety of standard pressure and electrical accessories, an operators instruction manual, and pressure conversion slide rule to convert units if necessary. There is a one year unconditional warranty against everything but abuse.

Precision Digital Manometer

PERFORMANCE SPECIFICATIONS (at 25°C)

Accuracy: $\pm 0.50\%$ of Reading or ± 1 count
 Resolution: $\pm 0.05\%$ FS
 Operating Temperature Range: 0–55°C
 Maximum Storage Temperature Range: –40°C to +85°C

Temperature Effects:
 Total Error (0–55°C): $\pm 0.01\%$ FS/°C
 Outside (0–55°C): $\pm 0.02\%$ FS/°C

Power Supply:
 Battery: Standard 9V cell
 Typical operating life: 150 hours
 Low Bat indicator at 10 hours operating left
 Flashing display when Low Bat causes system error

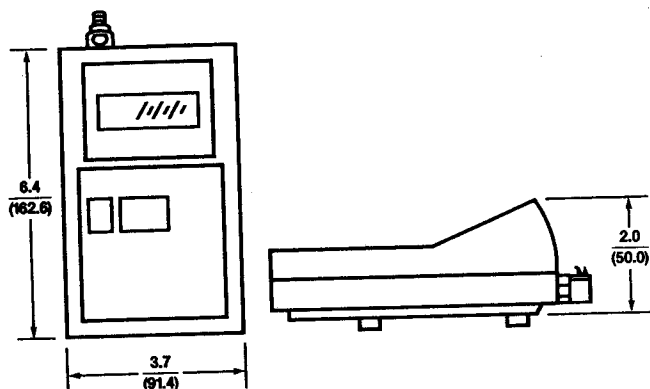
Display:
 3½ digit LCD, 12.7 mm (0.5 inch) high black numerals.
 Polarity and Lo Bat indicators.

Pressure Fitting:
 Chrome-plated, locking quick disconnect. (Mating connectors provided.)

Pressure Media:
 Non-corrosive, non-ionic gases and liquids.

PHYSICAL DIMENSIONS

Inches (millimeters)



ORDERING INFORMATION To order, use the following model numbers:

MODEL NUMBER	PRESSURE RANGE		RESOLUTION		UNITS (gage)	STANDARD ACCESSORIES Included
	LOW	HIGH	LOW	HIGH		
PDM 10B	NONE	0–10.00	—	0.01	bar	1, 2
PDM 100P	NONE	0–100.0	—	0.1	PSI	1, 2
PDM 200B	0–199.9	0–1999	0.1	1.0	millibar	1, 2
PDM 2B	0–1.999	0–10.00	0.001	0.01	bar	1, 2
PDM 200M	0–199.9	0–1000	0.1	1.0	mmHg	1, 2
PDM 20P	0–19.99	0–100.0	0.01	0.1	PSI	1, 2
PDM 200BD*	0–199.9	0–1999	0.1	1.0	millibar (differential)	1, 2
PDM 20ID*	0–19.99	0–199.9	0.01	0.1	IN WC (differential)	1, 2
PDM 200CD	0–199.9	0–1000	0.1	1.0	cm WC (differential)	1, 2

Options:

- 1-Carry Case, Instruction Manual, Pressure Conversion Slide Rule, Screw Driver, Spare Battery
- 2-Pressure connector tubing (3 ft.) and 2 mating quick disconnects
- 3-Mating electrical clip leads

NOTES:

- * Meter offers dual input pressure ports for true differential pressure measurements.

Sensym reserves the right to make changes to any products herein. Sensym does not assume any liability arising out of the application or use of any product or circuit described herein, neither does it convey any license under its patent rights nor the rights of others.