

**Dwyer**

SERIES HM35

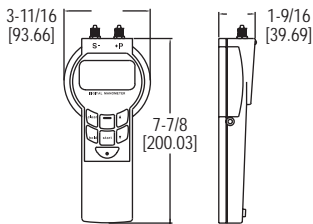
# PRECISION DIGITAL PRESSURE MANOMETER

Up to 0.05% Accuracy, Graphical Display, Data Logging Capability



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The **Series HM35 Precision Digital Pressure Manometer** is designed to reliably measure and log absolute pressure, differential pressure, or gage pressure with up to 0.05% accuracy. The data logging function can store up to 10,742 readings and transmit the readings to a PC through an IR serial port. The large display can graphically display trends in the data as well as peaks and valleys.

**FEATURES/BENEFITS**

- Able to record up to 10,742 readings, which can be downloaded to a PC
- Up to 0.05% accuracy for use in critical applications
- Measure absolute, differential, or gage pressure

**APPLICATIONS**

- Calibration facilities
- Laboratories

**MODEL CHART - ERROR LIMIT 0.2% FS FOR GAGE, VACUUM, AND DIFFERENTIAL PRESSURE**

Model	Range	Over Pressure
HM3531DLB300	0 to 10 in w.c. (0-2.5 kPa)	50 in w.c.
HM3531DLC300	0 to 28 in w.c. (0-7 kPa)	140 in w.c.
HM3531DLE300	0 to 80 in w.c. (0-20 kPa)	600 in w.c.
HM3531DLF300	0 to 120 in w.c. (0-30 kPa)	600 in w.c.
HM3531DLG300	0 to 200 in w.c. (0-50 kPa)	58 psi
HM3531DLH300	0 to 14.5 psi (0-100 kPa)	58 psi

**Note:** For higher accuracy models, change the 10th digit from a 3 to a 1 (0.05% FS), 2 (0.1% FS), or 6 (0.1% of reading); higher accuracies are only available on 0 to 28 in of w.c. range or higher.

**Example:** HM3531DLC100 (0 to 28 in w.c. with 0.05% accuracy); consult factory.

**SPECIFICATIONS**

**Service:** Air and compatible gases.

**Wetted Materials:** 18/8 stainless steel.

**Accuracy:** (Includes linearity, hysteresis, and repeatability): Depending on model;  $\pm 0.20\%$  FS  $\pm 1$  digit;  $\pm 0.10\%$  FS  $\pm 1$  digit;  $\pm 0.05\%$  FS  $\pm 1$  digit.

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

**Storage Temperature:** -4 to 140°F (-20 to 60°C).

**Humidity:** Maximum 95% RH non-condensing.

**Display:** Graphical back lit LCD. 128 x 64 points.

**Power Requirements:** (3) 1.5 V AA alkaline batteries, installed functional, user replaceable. Can operate on 6 to 9 VDC external power.

**Current Consumption:** 25 mA without back lit display, IR, or buzzer.

**Memory:** 10,742 readings. Recording intervals adjustable from 1 s to 24 hrs or manual.

**Case Protection:** IP54 (NEMA 3).

**Weight:** 10.5 oz (300 g).

**Process Connections:** Hose 4/6 mm or 1/8" NPT.

**ACCESSORIES**

Model	Description
HM28-0	1/8" NPT adapter (1 piece)
HM35-1	Communication software key
HM35-2	Infrared RS-232 serial adapter, required to download stored data to a PC
HM35-3	External power converter with U.S. plug adapter, input 100 to 240 VAC, 50/60 Hz

**OPTIONS**

Use order code:	Description
NISTCAL-MD1	NIST traceable calibration certificate