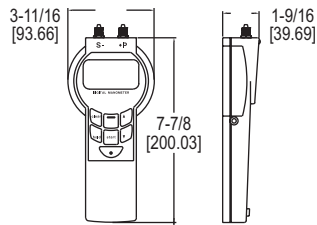




SERIES HM35

PRECISION DIGITAL PRESSURE MANOMETER

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



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 ± 1 digit; $\pm 0.10\%$ FS ± 1 digit; $\pm 0.05\%$ FS ± 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