

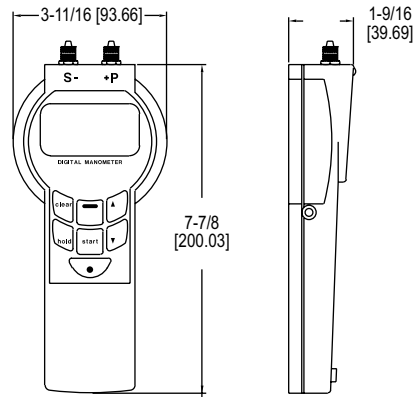


SERIES HM35

PRECISION DIGITAL PRESSURE MANOMETER

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

CALIBRATION SERVICES AVAILABLE



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.

BENEFITS/FEATURES

- 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.

ACCESSORIES

| Model | Description |
|--------|---|
| HM35-1 | Communication software key |
| HM35-2 | Infrared RS-232 serial adaptor, required to download stored data to a PC |
| HM35-3 | External power converter with U.S. plug adaptor, input 100 to 240 VAC, 50/60 Hz |

OPTIONS

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

Note: New units include data report/calibration report. NIST can be provided for the additional fee.

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).
- Process Connections:** Hose 4/6 mm or 1/8" NPT.
- Weight:** 10.5 oz (300 g).