



Series  
HM35

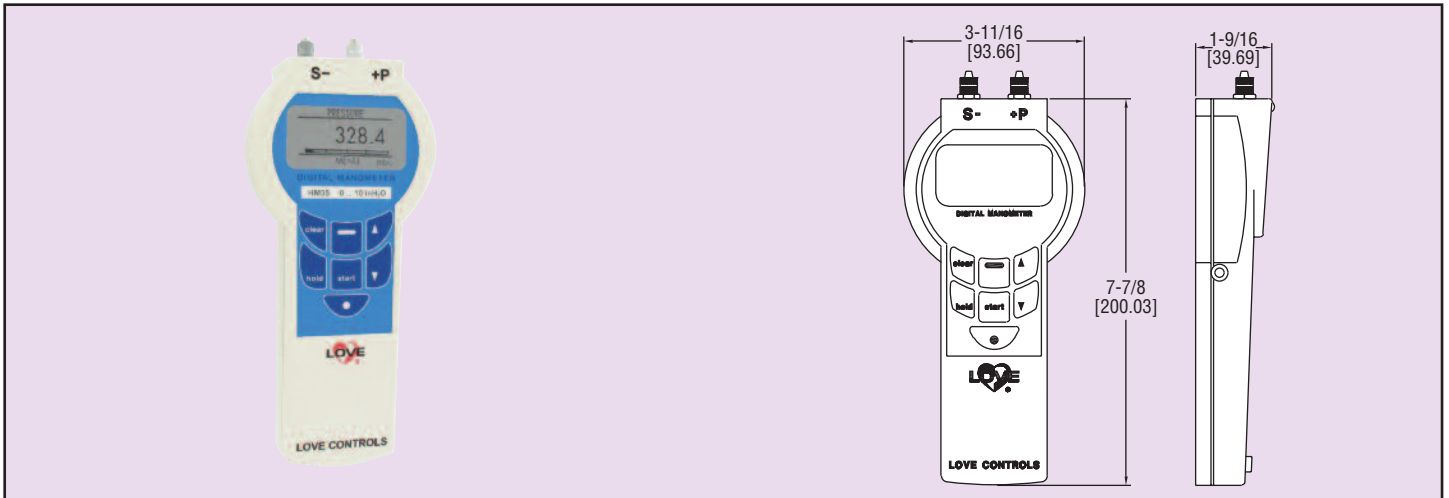
# Precision Digital Pressure Manometer

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



TEST EQUIPMENT

Manometers,  
Portable



The High Precision Series HM35 Digital Manometer is designed to reliably measure and log pressure measurements for critical applications. This family of manometer can measure 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. The series HM35 comes standard with a calibration certificate so that the instrument can be used as a secondary calibration standard when testing other pressure instrumentation. This manometer is ideal for laboratories, calibration facilities, and other critical pressure applications.

## ACCESSORIES

**HM28-0**, 1/8" NPT Adapter (1 Piece)

**HM35-1**, Communication software

**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

## Error Limit 0.2% FS for gauge, vacuum, and differential pressure

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

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). For example, 0 to 28 in of w.c. with 0.05% accuracy would be model number HM3531DLC100. Higher accuracies are only available on 0 to 28 in of w.c. range or higher.

## OPTION

For NIST traceable calibration certificate, use order code NISTCAL-MD.

## SPECIFICATIONS

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

**Accuracy:** (Includes linearity, hysteresis, and repeatability): Depending on model.

±0.20% full-scale ±1 digit;

±0.10% full-scale ±1 digit;

±0.05% full-scale ±1 digit.

**Measuring Media:** Instrument air or inert gases that are compatible with 18/8 SS.

**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).

**Agency Approval:** CE.