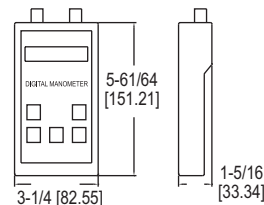


SERIES HM28

PRECISION HANDHELD DIGITAL MANOMETER

High Accuracy (0.2%, 0.1% or 0.05%), Differential, Gage or Absolute



The **Series HM28 Precision Handheld Digital Manometer** is designed to measure a wide range of pressures with up to 0.05% accuracy. The data logging function can store up to 964 readings and transmit the readings to a PC through an IR serial report. The dual line LCD is able to display a resolution to 0.001 of the selected unit and indicate peaks and valleys.

FEATURES/BENEFITS

- Measures differential, gage, or absolute pressure
- Able to record up to 964 readings, which can be downloaded to a PC
- Up to 0.05% accuracy

APPLICATIONS

- Calibration facilities
- Laboratories

MODEL CHART	
Model	Features
Error limit 0.2% FS for gage, underpressure and differential pressure	
HM28D3B10000	0 to 10 in w.c. (2.5 kPa)
HM28D3C10000	0 to 28 in w.c. (7 kPa)
HM28D3F10000	0 to 120 in w.c. (30 kPa)
Error limit 0.05% FS for gage, underpressure and differential pressure	
HM28D3C30000	0 to 28 in w.c. (7 kPa)
HM28D3F30000	0 to 120 in w.c. (30 kPa)
HM28D3K30000	0 to 100 psi (700 kPa)
For absolute pressure	
HM28A3I10000	0 to 15.9 psia (0.2% FS (110 kPa abs))
Note: Consult factory for 0.10% models.	

SPECIFICATIONS

Service: Air and compatible gases.

Accuracy: (Includes linearity, hysteresis, and repeatability): per order code.
 $\pm 0.20\%$ FS ± 1 digit; $\pm 0.10\%$ FS ± 1 digit;
 $\pm 0.05\%$ FS ± 1 digit.

Wetted Materials: 18/8 stainless steel.

Temperature Limits: 23 to 122°F (-5 to 50°C).

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

Humidity: 30 to 95% rH, non-condensing.

Display: 2 line, 16 character, dot matrix LCD, with switchable display sizes.

Power Requirements: 9 V alkaline battery, installed functional, user replaceable. Can operate from external power supply of 7-14 VDC.

Current Consumption: < 9 mA.

Memory: 964 measured values. Recording intervals adjustable from manual, 1, 5, 10, 20, 30 s, 1, 2, 3, 5, 10, 30, 60 minutes.

Case Protection: IP54 (NEMA 3).

Case Dimensions: 6" x 3.27" x 1.34" (152 x 83 x 34 mm).

Weight: 9.5 oz (270 g).

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

Maximum Measurement Rates: Stand alone: 2-1/2 readings/s (0.1% and 0.05% ratings), 5 readings/s (0.2% rating). Output to RS-232: 20 measurements/s (0.2% rating), 10 measurements/s (0.1% and 0.05% ratings).

RS-232 Baud Rate: Adjustable, 1200, 2400, 4800, or 9600 baud.

ACCESSORIES

Model	Description
HM28-0	1/8" NPT adapter (1 piece)
HM28-1	Communication software and cable
HM28-2	Universal power adapter

OPTIONS

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