



Series  
HM28

# Handheld Digital Manometer

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



The Series HM28 Digital Hand-Held Manometer is a precision instrument designed to measure a wide range of pressures to a very high accuracy. The unit incorporates a variety of features in an easy to use format that makes it useful in a wide variety of applications. Features include: measurement in all common pressure ranges, display resolution to 0.001, differential or relative measurement, two line liquid crystal display, and adjustable auto power off to conserve battery.

We are so proud of the accuracy of the HM28 that we provide a certificate of calibration with the unit at no additional cost. Depending on your application, the HM28 can be used as a secondary calibration standard for your other pressure instrumentation.

#### ACCESSORIES

- HM28-0, 1/8" NPT Adaptor 1 piece
- HM28-1, Communication Software & Cable
- HM28-2, Universal Power Adaptor

#### SPECIFICATIONS

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

**Accuracy:** (Includes linearity, hysteresis, and repeatability): per order code.

±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. For HM28G3XXXXX, any material compatible with 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.

**Battery:** 9V alkaline (included). Can operate from external power supply of 7 to 14 VDC.

**Current Consumption:** <9 mA.

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

**Case Protection:** IP54.

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

**Weight:** 9.5 oz (270 g).

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

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

**Agency Approvals:** CE.

Part Number	Features
<b>Error limit 0.2% F.S. for gage, underpressure and differential pressure</b>	
HM28D3B10000	0-10 in w.c. (2.5 kPa)
HM28D3C10000	0-28 in w.c. (7 kPa)
HM28D3F10000	0-120 in w.c. (30 kPa)
HM28D3H10000	0-14.5 psi (100 kPa)
<b>Error limit 0.05% F.S. for gage, underpressure and differential pressure</b>	
HM28D3C30000	0-28 in w.c. (7 kPa)
HM28D3F30000	0-120 in w.c. (30 kPa)
HM28D3H30000	0-14.5 psi (100 kPa)
HM28D3K30000	0-100 psi (700 kPa)
HM28D3M31000	0-245 psi (1700 kPa)
<b>For Absolute pressure</b>	
HM28A3I10000	0-15.9 psia (0.2% F.S. (110 kPa abs))

Consult factory for 0.10% models.