**Handheld Digital Manometer**

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

**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.

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

**Current Consumption:** < 9 mA.

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

**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.

**Agency Approvals:** CE.

**Part Number** | **Features**
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HM28D3B10000 | Error limit 0.2% F.S. for gage, underpressure and differential pressure
HM28D3C30000 | Error limit 0.05% F.S. for gage, underpressure and differential pressure
HM28D3C10000 | Error limit 0.05% F.S. for gage, underpressure and differential pressure
HM28D3F30000 | Error limit 0.05% F.S. for gage, underpressure and differential pressure
HM28D3K30000 | Error limit 0.05% F.S. for gage, underpressure and differential pressure
HM28A3110000 | 0-15.9 psia (0.2% F.S. (110 kPa abs)

Detailed specifications include:

- **Error limit:**
  - 0.2% F.S.
  - 0.05% F.S.

- **Pressure Limits:**
  - 0-30.00 psi
  - 0-100.0 psi
  - 0-500.0 psi

- **Connections:**
  - 1/8˝ NPT

- **Storage Temperature Limits:**
  - -4 to 176°F (-20 to 80°C)

- **Display:**
  - 0.42˝ (10.6 mm) 4 digit LCD.

- **Power Requirements:** 9 V alkaline battery, installed non-functional, user replaceable.

- **Weight:** 14.1 oz (400 g).

- **Connections:** Two 1/8” (3.18 mm) female NPT.

- **Agency Approvals:** CE.

**Option**

For NIST traceable calibration certificate, consult factory for 0.10% models.

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**Series 490 Digital Manometers** are versatile, hand-held, battery operated manometers available in several basic ranges for positive or positive differential pressure measurement and can tolerate most liquid media compatible with 316LSS. A memory function allows storage of up to 40 readings for later recall and a backlight provides auxiliary lighting for hard-to-see locations. Standard are a hold feature and both visual and audible overpressure alarms. A new feature added to the Series 490 is a field adjustable damping. This allows the user to choose the level of display averaging rate corresponding to the fluctuation level common in many applications. A 9 V alkaline battery is included that provides up to 100 hours of operation.

**Option**

For NIST traceable calibration certificate, add suffix -NIST to model numbers. Example: 490-1-NIST.