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

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

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. A memory function allows storage of up to 40 readings for later recall and a backlight 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.

**Series HM28**

**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:**
  - ±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.
- **Power Requirements:** 9 V alkaline battery, installed functional, user replaceable.
- **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 (NEMA 3).
- **Case Dimensions:** 6” x 3.27” x 1.34” (152 x 83 x 34 mm).
- **Weight:** 9.5 oz (270 g).
- **Maximum Measurement Rates:**
  - 9.5 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:**
  - 19.2 kbps (9.5 readings/s).
  - 9.6 kbps (5 readings/s).

**CONTACT US**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM28D3B10000</td>
<td>0-5 in w.c. (12.7 kPa)</td>
</tr>
<tr>
<td>HM28D3C10000</td>
<td>0-20 in w.c. (50.0 kPa)</td>
</tr>
<tr>
<td>HM28D3F10000</td>
<td>0-100 in w.c. (250.0 kPa)</td>
</tr>
<tr>
<td>HM28D3C30000</td>
<td>0-100 psi (690 kPa)</td>
</tr>
<tr>
<td>HM28D3F30000</td>
<td>0-200 psi (1380 kPa)</td>
</tr>
<tr>
<td>HM28D3B30000</td>
<td>0-300 psi (2070 kPa)</td>
</tr>
<tr>
<td>HM28D3C60000</td>
<td>0-500 psi (3430 kPa)</td>
</tr>
<tr>
<td>HM28D3F60000</td>
<td>0-600 psi (4150 kPa)</td>
</tr>
</tbody>
</table>

**Agency Approvals:** CE.

**SERIES 490**

**Wet/Wet Handheld Digital Manometer**

**Liquid & Gas Pressure Measurement, ±0.5% FS Accuracy**

**SPECIFICATIONS**

- **Service:** Compatible gases & liquids.
- **Wetted Materials:** Without valve: 316L SS; Additional wetted parts with 3-way valve option: Buna-N, silicone grease, PTFE, brass 360, copper, reinforced acetal copolymer.
- **Accuracy:** ±0.5% FS, 60 to 78°F (15.6 to 25.6°C); ±1.5% FS from 32 to 60°F and 78 to 104°F (0 to 15.6°C and 25.6 to 40°C).
- **Pressure Hysteresis:** ±0.1% of full scale.
- **Pressure Limits:** See chart.
- **Temperature Limits:** 32 to 104°F (0 to 40°C).

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Available Pressure Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>490-1</td>
<td>0-15.0 psi</td>
<td>1.034 15.00 30.54 103.4 34.60 415.2 775.7 1034 30 psig</td>
</tr>
<tr>
<td>490-2</td>
<td>0-30.0 psi</td>
<td>2.069 30.00 61.08 206.9 69.20 830.4 1551 2009 60 psig</td>
</tr>
<tr>
<td>490-3</td>
<td>0-50.0 psi</td>
<td>3.447 50.00 101.8 344.7 115.3 1384 2585 4152 100 psig</td>
</tr>
<tr>
<td>490-4</td>
<td>0-100.0 psi</td>
<td>6.895 100.0 203.6 689.5 230.7 2708 5711 6985 200 psig</td>
</tr>
<tr>
<td>490-5</td>
<td>0-200.0 psi</td>
<td>13.79 200.0 407.2 1379 461.3 5536</td>
</tr>
<tr>
<td>490-6</td>
<td>0-500.0 psi</td>
<td>34.47 500.0 1018 3447 1153 2708 5711</td>
</tr>
</tbody>
</table>

**Agency Approvals:** CE.

**OPTION**

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