**Series HM28**

**Series 490**

**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.
- **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:** 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.

**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 70°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).
- **Agency Approvals:** CE.

**Part Number**

<table>
<thead>
<tr>
<th>Features</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM28D3B10000 0-10 in w.c. (2.5 kPa)</td>
<td>$1102.00</td>
</tr>
<tr>
<td>HM28D3C10000 0-28 in w.c. (7 kPa)</td>
<td>1102.00</td>
</tr>
<tr>
<td>HM28D3F10000 0-120 in w.c. (30 kPa)</td>
<td>1102.00</td>
</tr>
<tr>
<td>HM28D3C30000 0-28 in w.c. (7 kPa)</td>
<td>1646.00</td>
</tr>
<tr>
<td>HM28D3F30000 0-120 in w.c. (30 kPa)</td>
<td>1646.00</td>
</tr>
<tr>
<td>HM28D3K30000 0-100 psi (700 kPa)</td>
<td>1646.00</td>
</tr>
<tr>
<td>HM28A3I10000 0-15.5 psa (0.2% F.S. (110 kPa abs)</td>
<td>1674.00</td>
</tr>
</tbody>
</table>

Consult factory for 0.10% models. Items are subject to Schedule B discounts.

**Wet/Wet Digital Manometers**

- Series 490: Digitally selectable, battery operated manometers available in several basic ranges for positive or positive differential pressure measurement and can tolerate most liquid media with 316LSS. A memory function allows storage of up to 40 readings for later recall and a backlight provides auxiliary operation for hard-to-see locations.
- Standard are a hold feature and both visual and audible overpressure alarms. A new feature added is the Series 490’s new 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 490 Digital Manometers**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Bar</th>
<th>PSI</th>
<th>in Hg</th>
<th>kPa</th>
<th>Hg WC</th>
<th>in WC</th>
<th>mm Hg</th>
<th>mbar</th>
<th>Maximum Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>490-1</td>
<td>0-15.0</td>
<td>1034</td>
<td>150</td>
<td>30.3</td>
<td>103.4</td>
<td>415.2</td>
<td>1511</td>
<td>1034</td>
<td>2069</td>
<td>30 psig</td>
</tr>
<tr>
<td>490-2</td>
<td>0-30.0</td>
<td>2069</td>
<td>300</td>
<td>60.8</td>
<td>206.9</td>
<td>69.20</td>
<td>830.4</td>
<td>1511</td>
<td>2069</td>
<td>60 psig</td>
</tr>
<tr>
<td>490-3</td>
<td>0-50.0</td>
<td>3447</td>
<td>500</td>
<td>101.8</td>
<td>344.7</td>
<td>115.3</td>
<td>1384</td>
<td>2585</td>
<td>3447</td>
<td>100 psig</td>
</tr>
<tr>
<td>490-4</td>
<td>0-100.0</td>
<td>6895</td>
<td>1000</td>
<td>203.6</td>
<td>689.5</td>
<td>230.7</td>
<td>2768</td>
<td>5171</td>
<td>6895</td>
<td>200 psig</td>
</tr>
<tr>
<td>490-5</td>
<td>0-500.0</td>
<td>3447</td>
<td>5000</td>
<td>1018</td>
<td>344.7</td>
<td>1153</td>
<td>1384</td>
<td>2585</td>
<td>6895</td>
<td>1000 psig</td>
</tr>
<tr>
<td>490-6</td>
<td>0-200.0</td>
<td>1379</td>
<td>200</td>
<td>407.2</td>
<td>137.9</td>
<td>415.2</td>
<td>1511</td>
<td>1034</td>
<td>2069</td>
<td>400 psig</td>
</tr>
</tbody>
</table>

**A-402A, Carrying Case** — Tough gray nylon pouch protects any Series 490 Wet/Wet Handheld Digital Manometer. Double zipped for quick and easy access. With belt loop that snaps closed.

- 7-1/2˝H x 3˝W x 2-1/4˝D (191 x 76 x 57 mm) — $41.75

**Test Equipment**

Manometers, Portable

**CALL TO ORDER** | 800/872-9141

1534