SERIES HM35

PRECISION DIGITAL PRESSURE MANOMETER
Up to 0.05% Accuracy, Graphical Display, Data Logging Capability

CALIBRATION SERVICES AVAILABLE

The Series HM35 Precision Digital Pressure Manometer is designed to reliably measure and log absolute pressure, differential pressure, or gage pressure with up to 0.05% accuracy. The data logging function can store up to 10,742 readings and transmit the readings to a PC through an IR serial port. The large display can graphically display trends in the data as well as peaks and valleys.

BENEFITS/FEATURES
• Able to record up to 10,742 readings, which can be downloaded to a PC
• Up to 0.05% accuracy for use in critical applications
• Measure absolute, differential, or gage pressure

APPLICATIONS
• Calibration facilities
• Laboratories

MODEL CHART - ERROR LIMIT 0.2% FS FOR GAGE, VACUUM, AND DIFFERENTIAL PRESSURE

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Over Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM3531DLB300</td>
<td>0 to 10 in w.c. (0-2.5 kPa)</td>
<td>50 in w.c.</td>
</tr>
<tr>
<td>HM3531DLF300</td>
<td>0 to 28 in w.c. (0-7 kPa)</td>
<td>140 in w.c.</td>
</tr>
<tr>
<td>HM3531DLN300</td>
<td>0 to 80 in w.c. (0-20 kPa)</td>
<td>600 in w.c.</td>
</tr>
<tr>
<td>HM3531DLP300</td>
<td>0 to 120 in w.c. (0-30 kPa)</td>
<td>600 in w.c.</td>
</tr>
<tr>
<td>HM3531DLG300</td>
<td>0 to 200 in w.c. (0-50 kPa)</td>
<td>58 psi</td>
</tr>
<tr>
<td>HM3531DLH300</td>
<td>0 to 14.5 psi (0-100 kPa)</td>
<td>58 psi</td>
</tr>
</tbody>
</table>

Note: For higher accuracy models, change the 10th digit from a 0 to 1 (0.05% FS), 2 (0.1% FS), or 6 (0.01% of reading); higher accuracies are only available on 0 to 28 in of w.c. range or higher.

Example: HM3531DLT100 (0 to 28 in w.c. with 0.05% accuracy); consult factory.

SERIES HM28

PRECISION HANDHELD DIGITAL MANOMETER
High Accuracy (0.2%, 0.1% or 0.05%), Differential, Gage or Absolute

CALIBRATION SERVICES AVAILABLE

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 port. The dual line LCD is able to display a resolution to 0.001 of the selected unit and 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 port. The large display can graphically display trends in the data as well as peaks and valleys.

BENEFITS/FEATURES
• 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

SPECIFICATIONS
Service: Air and compatible gases.
Wetted Materials: 18/8 stainless steel.
Accuracy: (Includes linearity, hysteresis, and repeatability); depending on model:
±0.20% FS ±1 digit; ±0.10% FS ±1 digit; ±0.05% FS ±1 digit.
Temperature Limits: 32 to 122°F (0 to 50°C).
Storage Temperature: -4 to 140°F (-20 to 60°C).
Humidity: Maximum 95% RH non-condensing.
Display: Graphical back lit LCD. 128 x 64 points.

Power Requirements: (3) 1.5 V AA alkaline batteries, installed functional, user replaceable. Can operate on 6 to 9 VDC external power.
Current Consumption: 25 mA without back lit display, IR, or buzzer.
Memory: 10,742 readings. Recording intervals adjustable from 1 s to 24 hrs or manual.
Case Protection: IP54 (NEMA 3).
Process Connections: Hose; 4/6 mm or 1/8” NPT.
Weight: 10.5 oz (300 g).

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

ACCESSORIES
Model Description
HM28-0 1/8” NPT adapter (1 piece)
HM35-1 Communication software key
HM35-2 Infrared RS-232 serial adaptor, required to download stored data to a PC
HM35-3 External power converter with U.S. plug adaptor, input 100 to 240 VAC, 50/60 Hz

SERIES HM28

PRECISION HANDHELD DIGITAL MANOMETER
High Accuracy (0.2%, 0.1% or 0.05%), Differential, Gage or Absolute

CALIBRATION SERVICES AVAILABLE

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 port. The dual line LCD is able to display a resolution to 0.001 of the selected unit and indicate peaks and valleys.

BENEFITS/FEATURES
• 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Over Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM2831060000</td>
<td>0 to 10 in w.c. (2.5 kPa)</td>
<td>30 kPa</td>
</tr>
<tr>
<td>HM2831000000</td>
<td>0 to 28 in w.c. (7 kPa)</td>
<td>58 psi</td>
</tr>
<tr>
<td>HM2831030000</td>
<td>0 to 28 in w.c. (10 kPa)</td>
<td>58 psi</td>
</tr>
<tr>
<td>HM2831040000</td>
<td>0 to 28 in w.c. (15 kPa)</td>
<td>58 psi</td>
</tr>
</tbody>
</table>

Error limit 0.05% FS for gage, underpressure and differential pressure

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
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<tbody>
<tr>
<td>HM2831050000</td>
<td>0 to 28 in w.c. (20 kPa)</td>
<td>58 psi</td>
</tr>
<tr>
<td>HM2831060000</td>
<td>0 to 28 in w.c. (25 kPa)</td>
<td>58 psi</td>
</tr>
<tr>
<td>HM2831070000</td>
<td>0 to 28 in w.c. (30 kPa)</td>
<td>58 psi</td>
</tr>
</tbody>
</table>

For absolute pressure

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
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</tr>
</thead>
<tbody>
<tr>
<td>HM2831010000</td>
<td>0 to 15.9 psia (0.2% FS)</td>
<td>700 psi</td>
</tr>
</tbody>
</table>

Error limit 0.2% FS for gage, underpressure and differential pressure

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<thead>
<tr>
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<tbody>
<tr>
<td>HM2831020000</td>
<td>0 to 28 in w.c. (5 kPa)</td>
<td>58 psi</td>
</tr>
<tr>
<td>HM2831030000</td>
<td>0 to 28 in w.c. (10 kPa)</td>
<td>58 psi</td>
</tr>
<tr>
<td>HM2831040000</td>
<td>0 to 28 in w.c. (15 kPa)</td>
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<tr>
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<td>58 psi</td>
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For absolute pressure

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</tbody>
</table>

Accessories

Model Description
HM28-0 1/8” NPT adaptor (1 piece)
HM28-1 Communication software key
HM28-2 Universal power adaptor

Weigh: 9.5 oz (270 g).