Differential Pressure Transmitters

Same Size as Standard Magnehelic® Differential Pressure Gage

The Dwyer Series DM-2000 Differential Pressure Transmitters sense the pressure of air and compatible gases and sends a standard 4 to 20 mA output signal. The DM-2000 housing is specifically designed to mount in the same diameter cutout as a standard Magnehelic® gage. A wide range of models are available factory calibrated to specific ranges. Pressure connections are inherent to the glass filled plastic molded housing making installation quick and easy. Digital push-button zero and span simplify calibration over typical turn-potentiometers. An optional 3.5 digit LCD shows process and engineering units. A single push button allows field selection of 4 to 6 engineering units depending on range.

Features/Benefits

- Zero and span controls provide easy calibration checks and shorter installation time to get device running and monitoring
- Quick response to pressure changes means no delay in signaling and alerting to critical situations
- Easy to read LCD display provides immediate local alerts allowing corrective action to be taken quicker to eliminate the problem from becoming widespread
- Same size as Magnehelic® simplifies field upgrade to digital pressure gage by reducing install steps
- Tamper proof button configuration to prevent accidental changes to the settings

Applications

- Differential pressure across filters
- Fan control
- Static pressures in ducts or buildings

Specifications

- Service: Air and non-combustible, compatible gases.
- Wetted Materials: Consult factory.
- Accuracy: ±1% FS at 70°F.
- Stability: ±1% FS/yr.
- Temperature Limits: 20 to 120°F (-6.67 to 48.9°C).
- Pressure Limits: 10 psig (0.69 bar).
- Thermal Effect: ±0.055% FS/°F (0.099% FS/°C).
- Power Requirements: 10 to 35 VDC (2 wire).
- Output Signal: 4 to 20 mA.
- Zero and Span Adjustments: Digital push-button zero and span.
- Loop Resistance: DC: 0 to 1250 Ω maximum.
- Current Consumption: DC: 38 mA max.
- Electrical Connections: Screw-type terminal block.
- Display: 3.5 digit LCD, 0.7˝ H.
- Process Connections: 1/8˝ ID tubing.
- Mounting Orientation: Vertical.
- Weight: 4.8 oz (136 g).

Options

- To order add suffix: Description Price
  -NIST NIST traceable calibration certificate $139.00
  -FC Factory calibration certificate 30.00
  Example: DM-2002-LCD-NIST

Accessories

- Model Description Price
  -A-299 Surface mounting bracket $31.50
  -A-300 Flat flush mounting bracket 27.25
  -A-302F-A 303 SS static pressure tip with mounting flange; for 3/16˝ ID rubber or plastic tubing; 4˝ insertion depth; includes mounting screws 9.20
  -A-320-A Instrument enclosure 169.00
  -A-489 4˝ straight static pressure tip with flange 6.67
  -SCD-PS 100 to 240 VAC/VDC to 24 VDC power supply 30.00
  Items are subject to Schedule B discounts.

Note: For white overlay change -20 to -21. Example: DM-2102-LCD

Model Chart

<table>
<thead>
<tr>
<th>Model</th>
<th>Range (in w.c.)</th>
<th>mm w.c.</th>
<th>mmBar</th>
<th>kPa</th>
<th>psi</th>
<th>Price</th>
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<tbody>
<tr>
<td>DM-2001-LCD</td>
<td>0 to ±.100</td>
<td>24.9</td>
<td>2.54</td>
<td>249</td>
<td>-</td>
<td>-</td>
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<td>DM-2002-LCD</td>
<td>0 to ±.250</td>
<td>62.2</td>
<td>6.35</td>
<td>622</td>
<td>-</td>
<td>-</td>
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<tr>
<td>DM-2003-LCD</td>
<td>0 to ±.500</td>
<td>124.3</td>
<td>12.70</td>
<td>1,243</td>
<td>.124</td>
<td>-</td>
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<td>DM-2004-LCD</td>
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<td>25.4</td>
<td>2,49</td>
<td>.249</td>
<td>-</td>
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<tr>
<td>DM-2005-LCD</td>
<td>0 to ±2.00</td>
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<td>50.8</td>
<td>4,97</td>
<td>.497</td>
<td>-</td>
</tr>
<tr>
<td>DM-2006-LCD</td>
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<td>DM-2007-LCD</td>
<td>0 to ±5.00</td>
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<td>127-0</td>
<td>12.43</td>
<td>1,243</td>
<td>180</td>
</tr>
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<td>DM-2012-LCD</td>
<td>0 to ±250</td>
<td>0 to ±62.2</td>
<td>0 to ±6.35</td>
<td>0 to ±622</td>
<td>-</td>
<td>-</td>
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<tr>
<td>DM-2013-LCD</td>
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<td>0 to ±124.3</td>
<td>0 to ±12.70</td>
<td>0 to ±1243</td>
<td>-</td>
<td>-</td>
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<tr>
<td>DM-2019-LCD</td>
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<td>-</td>
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</tbody>
</table>

Note: For white overlay change -20 to -21. Example: DM-2102-LCD