Dwyer
SERIES MSX PRO
MAGNESENSE® DIFFERENTIAL PRESSURE TRANSMITTER
Monitors Differential Pressure, Air Velocity, and Volumetric Flow

The Series MSX Pro Magnesense® Differential Pressure Transmitter is the professional differential pressure transmitter meeting stringent industry standards with innovative global product design. The device has exceptional stability for use in critical building performance applications with the popular versatility of our original Series MS2 Magnesense® II transmitter. The MSX Pro simplifies the ordering process to deliver the desired configuration, which reduces product setup time. Pressure ranges of Pa, mm w.c., and in. w.c. are available per device. All pressure ranges can be configured in unidirectional or bidirectional modes providing a total of 32 ranges. The MSX Pro transmitter can provide a linear pressure output or a linear velocity output with the square root extraction from the transmitter. Additional parameters have been included to expand the square root capability to calculate flow. Dual voltage and milliamp output signals can be used to provide control and equipment output signal verification.

APPLICATIONS
• Supports exacting measurement and control for critical environments through standards with UL94 V-0 and plenum ratings
• Add safety to variety of applications that need to meet municipal and building code
• Protection from liquids and moisture near the cable egress point with the included cable gland included
• Added security and protection from the tamper-resistant cover
• Eliminates accidental damage to the unit during installation with the products
• Easily access the unit’s wiring via the flip-lid housing
• Removes static pressure tips and 7 ft (2.1 m) of PVC tubing
• Zero and Span Adjustments: Digital push-button

BENEFITS/FEATURES
• Magnesense® differential pressure transmitter
• DIN rail mount
• Universal (wall or duct) mount
• Wall mount
• Unidirectional
• Bidirectional
• 5 in w.c., 125 Pa, 12.5 mm w.c.
• 1 in w.c., 250 Pa, 25 mm w.c.
• 5 in w.c., 1250 Pa, 125 mm w.c.
• 28 in w.c., 7000 Pa, 700 mm w.c.
• 15 in w.c., 4000 Pa, 400 mm w.c.
• Inches water column
• Pascal
• Millimeters water column
• A481
• FC
• FP
• LCD
• NIST
• STX
• WO
• Factory calibration certificate
• Filtered pickup with barb
• Liquid crystal display
• NIST traceable calibration certificate
• Two (2) plastic static pressure tips
• LCD cover without LCD display

SPECIFICATIONS
• Service: Air and non-combustible, compatible gases
• Wetted Materials: Consult factory
• Accuracy: ±0.5% FSO for all ranges except unidirectional
• Stability: ±1% FSO/year
• Temperature Limits: -4 to 158°F (-20 to 70°C)
• Pressure Limits: Ranges 0 and 1: 3.6 psi max operation, 6 psi burst; Ranges 2, 3 and 4: 6 psi max operation, 8 psi burst
• Power Requirements: 10-35 VAC (3-wire), 17-36 VDC or isolated 21.6-33 VDC (2-wire); 4-20 mA (2-wire); 0-10 V or 0-5 V selectable (3-wire).
• Response Time: Instantaneous (default) or 3 s (selectable)
• Zero and Span Adjustments: Digital push-button

OPTIONS

Model Description
A-480 Plastic static pressure tip
A-481 Plastic static pressure tip, includes 2 plastic static pressure tips and 7 ft (2.1 m) of PVC tubing
A-MSXP-LCD Replacement display for the Series MSX Pro

ACCESSORIES

Example MSXP-W13-IN-LCD

<table>
<thead>
<tr>
<th>Series</th>
<th>MSXP</th>
<th>Mounting</th>
<th>Direction</th>
<th>Range</th>
<th>Pressure Unit</th>
<th>Options</th>
</tr>
</thead>
</table>
| 0      | W    | Wall mount | Universal (wall or duct) mount | 0     | inches water column
| 1      | W    | Wall mount | Universal (wall or duct) mount | 1     | Pascal
| 2      | W    | Wall mount | Universal (wall or duct) mount | 2     | Millimeters water column
| 3      | W    | Wall mount | Universal (wall or duct) mount | 3     | Inches water column
| 4      | W    | Wall mount | Universal (wall or duct) mount | 4     | Pascal

<table>
<thead>
<tr>
<th>Range</th>
<th>in. w.c.</th>
<th>Pa low</th>
<th>Pa high</th>
<th>mm w.c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>15</td>
<td>60</td>
<td>1.25</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>100</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>125*</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>100</td>
<td>250*</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>250</td>
<td>500</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>500</td>
<td>1250*</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1000</td>
<td>3000</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1500</td>
<td>4000</td>
<td>125*</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2000</td>
<td>5000</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>2500</td>
<td>7000*</td>
<td>350</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>5000</td>
<td>10000</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>10000</td>
<td>30000</td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>15000</td>
<td>40000</td>
<td>5000</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>20000</td>
<td>50000</td>
<td>7000</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>25000</td>
<td>70000</td>
<td>10000</td>
<td></td>
</tr>
</tbody>
</table>

*Indicated values are the positive full scale output values per range.

WARRANTY

5 YEAR LIMITED WARRANTY

Dwyer Instruments, LLC | Dwyer Inst.com