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 milliamper output signals can be used to provide control and equipment output signal verification.

**BENEFITS/FEATURES**
- Easily access the unit's wiring via the flip-lid housing.
- Innovotive design shielding the electronics underneath the PCB.
- Eliminates accidental damage to the unit during installation with the product's innovative design.
- 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.
- Added security and protection from the tamper-resistant cover.
- **ACCESSORIES**
  - **OPTIONS**
    - A-481 Installer kit, includes 2 plastic static pressure tips and 7 ft (2.1 m) of PVC tubing
    - A-480 Plastic static pressure tip
    - A-MXSP-LCD Replacement display for the Series MSX Pro

**APPLICATIONS**
- High performance building applications for critical environments.
- Filter monitoring in air handler units.
- Building pressure in pharmaceutical/semiconductor clean rooms.
- Duct static pressure in commercial and specialized buildings.
- Air velocity/flow in VAV systems.

**MAGNESENSE® DIFFERENTIAL PRESSURE TRANSMITTER**

Monitors Differential Pressure, Air Velocity, and Volumetric Flow

**SERIES MSX PRO**

**SPECIFICATIONS**
- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Consult factory.
- **Accuracy:** ±0.5% FSO for all ranges except unidirectional .5 in. @ ±1% FSO.
- **Stability:** ±1% FSO/year.
- **Temperature Limits:** -4 to 158°F (-20 to 70°C).
- **Pressure Limits:** Ranges 0 and 1: 0.1 psi max pressure, 6 psi burst; Ranges 2 and 3: 3 psi max pressure, 6 psi burst.
- **Power Requirements:** 10-36 VDC (2-wire), 17-36 VDC or isolated 21.6-33 VDC.
- **Loop Resistance:** Current output: 0-1250 Ohm max. Voltage output: min. load resistance 1 KΩ.
- **Current Consumption:** 21 mA max continuous.
- **Electrical Connections:** 4 wire removable European style terminal block for 16 to 26 AWG.
- **Electrical Entry:** 1/2" NPT threaded.
- **Display (optional):** 4 digit LCD.
- **Process Connections:** 1/8", 3/16", 1/4", 5 mm, and 6 mm ID flexible tubing.
- **Enclosure Rating:** NEMA 4 (IP66), UL 2043 (Plenum), UL94 V-0.
- **Mounting Orientation:** Pressure sensor measurement unaffected by orientation.
- **Agency Approvals:** CE.

**ACCESSORIES**
- **Model**
  - **Description**
  - A-480 Plastic static pressure tip
  - A-481 Plastic static pressure tip
  - A-MXSP-LCD Replacement display for the Series MSX Pro

**OPTIONS**

<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>Range 0</td>
<td>0.05</td>
<td>15</td>
<td>60</td>
<td>1.25</td>
</tr>
<tr>
<td></td>
<td>0.1</td>
<td>25</td>
<td>75</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>0.25</td>
<td>40</td>
<td>100</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>0.5*</td>
<td>50</td>
<td>125*</td>
<td>12*</td>
</tr>
<tr>
<td>Range 1</td>
<td>0.1</td>
<td>25</td>
<td>100</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>0.25</td>
<td>40</td>
<td>150</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>0.5</td>
<td>50</td>
<td>160</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>60</td>
<td>250*</td>
<td>25*</td>
</tr>
<tr>
<td>Range 2</td>
<td>1</td>
<td>250</td>
<td>600</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>300</td>
<td>750</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>400</td>
<td>1000</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>5*</td>
<td>500</td>
<td>1250*</td>
<td>125*</td>
</tr>
<tr>
<td>Range 3</td>
<td>10</td>
<td>1000</td>
<td>3000</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>1500</td>
<td>4000</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>2000</td>
<td>5000</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>28*</td>
<td>2500</td>
<td>7000*</td>
<td>700*</td>
</tr>
</tbody>
</table>

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

**Display (optional):** 4 digit LCD.
- **Process Connections:** 1/8", 3/16", 1/4", 5 mm, and 6 mm ID flexible tubing.
- **Enclosure Rating:** NEMA 4 (IP66), UL 2043 (Plenum), UL94 V-0.
- **Mounting Orientation:** Pressure sensor measurement unaffected by orientation.
- **Agency Approvals:** CE.