The Series MS2 Magnesense® II Differential Pressure Transmitter combines stable piezo sensing technology with additional features to reduce installation time and simplify ordering. Like the original Series MS, the second generation transmitter can be used as a linear pressure output or a linear velocity output with the square root extraction done in the transmitter. Additional parameters have been included on the MS2 to expand the square root capability to include flow measurements.

**FEATURES/BENEFITS**
- Field selectable ranges and output signal reduce inventory and the chances of ordering an incorrect part
- BACnet or Modbus® serial communications reduce wiring cost by daisy-chaining the transmitters
- Our integral field-upgradeable display or plug-in remote display tool save upfront material cost and allow for local viewing of measurements

**APPLICATIONS**
- Filter monitoring in air handler units
- Building pressure in pharmaceutical-semiconductor clean rooms
- Duct static pressure in commercial buildings
- Air velocity/flow in VAV systems

**SPECIFICATIONS**
- **Supported Baud Rates:** 9600, 19200, 38400, 57600, 76800, 115200.
- **Data Size:** 8.
- **Parity:** None.
- **Stop Bits:** 1.
- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Consult factory.
- **典型 Accuracy:** ±1% FS for 0.15 in w.c. (40 Pa), 0.25 in w.c. (50 Pa), 0.5 in w.c. (125 Pa), 2 in w.c. (500 Pa), 3 in w.c. (750 Pa), 5 in w.c. (1250 Pa), 10 in w.c. (2 kPa), 15 in w.c. (3 kPa), 25 in w.c. (5 kPa), 28 in w.c. (6.975 kPa); ±2% FS for 0.1 in w.c. (25 Pa), 1 in w.c. (250 Pa), and all bi-directional ranges.
- **Stability:** ±1% / year FSO.
- **Temperature Limits:** 0 to 150°F (-18 to 66°C).
- **Pressure Limits:** 1 psi max., operation; 66°C).
- **Stability:** ±1% / year FSO.
- **Response Time:** Averaging 0 to 240 s, 2.5 Hz sample rate, 1.5 to 228 s for 95% step change.
- **Zero & Span Adjustments:** Digital push-buttons.
- **Loop Resistance:** Current output: 0 to 1250 Ω max; Voltage output: Min. load resistance 1 kΩ.
- **Current Consumption:** 40 mA max.
- **Display (Optional):** 5 digit LCD.
- **Electrical Connections:** 3-wire removable European style terminal block for 16 to 22 AWG.
- **Electrical Entry:** 1/2" NPS thread; accessory (A-151): Cable gland for 5 to 10 mm diameter cable.
- **Process Connection:** 3/16" ID tubing (5 mm ID); Max. OD 9 mm.
- **Enclosure Rating:** NEMA 4X (IP66).
- **Electrical Connections:** 3-wire 5 digit LCD.
- **Mounting Orientation:** Any orientation.
- **Weight:** 8.0 oz (230 g).
- **Agency Approvals:** BTL, CE.

**ACCESSORIES**
- **Model**
- **Description**
- A-151: Cable gland for 5 to 10 mm diameter cable
- A-MS2-LCD: Field upgradeable display
- A-435-A: Remote display tool
- A-480: Plastic static pressure tip
- A-481: Includes 2 plastic static pressure tips and 7 ft (2.1 m) of PVC tubing
- A-489: 4" 303 SS straight static pressure tip with flange
- A-360F-A: Fits on tubing; for 3/16" ID rubber or plastic tubing
- SCD-PS: 100-240 VAC/VDC to 24 VDC power supply

**OPTIONS**
- **To order add suffix:** Description
- LCD: Units with display
- BC: BACnet Communications
- MC: Modbus® Communications
- NIST: NIST traceable calibration certificate
- FC: Factory calibration certificate

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>in w.c.</th>
<th>Pa</th>
<th>mm w.c.</th>
<th>kPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS2-W101</td>
<td>0.10, 0.15, 0.25, 0.50</td>
<td>25, 40, 50, 125</td>
<td>±0.25, ±0.5, ±0.5, ±1.25</td>
<td>±0.025, ±0.05, ±0.125</td>
</tr>
<tr>
<td>MS2-W111</td>
<td>2, 3, 5</td>
<td>250, 500, 750, 1250</td>
<td>±250, ±500, ±750, ±1250</td>
<td>±0.25, ±0.5, ±0.75, ±1.25</td>
</tr>
<tr>
<td>MS2-W102</td>
<td>±1, ±2, ±3, ±5</td>
<td>250, 350, 500, 697.5</td>
<td>±250, ±350, ±500, ±697.5</td>
<td>±0.25, ±0.35, ±0.5, ±0.975</td>
</tr>
<tr>
<td>MS2-W103</td>
<td>±10, ±15, ±25, ±28</td>
<td>2500, 3500, 5000, 6975</td>
<td>±2500, ±3500, ±5000, ±6975</td>
<td>±125, ±150, ±225, ±350</td>
</tr>
</tbody>
</table>

**Note:** For duct mount static probe change W to D. Example: MS2-D101

**For DIN rail mounting change W to N. Example: MS2-N101**