

SERIES MS

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.

Wetted Materials: Consult Factory.

Accuracy: ±1% for 0.25" (50 Pa), 0.5" (100 Pa), 2" (500 Pa), 5" (1250 Pa), 10" (2 kPa), 15" (3 kPa), 25" (5 kPa) ±2% for 0.1" (25 Pa), 1" (250 Pa) and all bi-directional ranges.

Stability: ±1% / year F.S.O.

Temperature Limits: 0 to 150°F (-18 to 66°C).

Pressure Limits: 1 psi maximum, operation; 10 psi, burst.

Power Requirements: 10 to 35 VDC (2-wire); 17 to 36 VDC or isolated 21.6 to 33 VAC (3-wire).

Output Signals: 4 to 20 mA (2-wire) or 0 to 10 V (3-wire).

Response Time: Adjustable 0.5 to 15 sec. time constant. Provides a 95% response time of 1.5 to 45 seconds.

Zero & Span Adjustments: Digital push button.

Loop Resistance: Current Output: 0-1250 Ω max. Voltage Output: min. load resistance 1 kΩ.

Current Consumption: 40 mA max.

Display (optional): 4 digit LCD.

Electrical Connections:

4-20 mA, 2-Wire: European Style Terminal Block for 16 to 26 AWG.

0-10 V, 3-Wire: 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 Connections: 3/16" ID tubing (5 mm ID), Maximum OD 9 mm.

Enclosure Rating: NEMA 4X (IP65).

Mounting Orientation: Diaphragm in vertical position.

Weight: 8.0 oz (230 g).

Agency Approvals: CE.



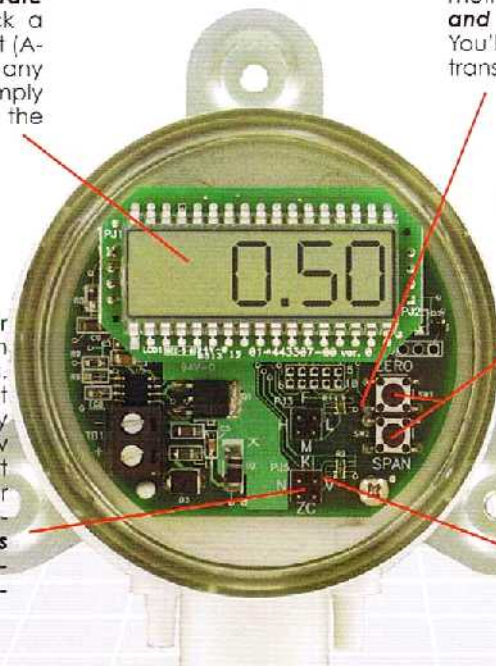
The Series MS Magnesense® Differential Pressure Transmitter is an extremely versatile transmitter for monitoring pressure and air velocity. This compact package is loaded with features such as:

- **Field Selectable English or Metric Ranges**
- **Field Upgradeable LCD Display**
- **Adjustable Dampening of Output Signal (with Optional Display)**
- **Ability to Select a Square Root Output for Use with Pitot Tubes and Other Similar Flow Sensors**

Along with these features, the patented magnetic sensing technology provides exceptional long term performance and enables the Magnesense® Differential Pressure Transmitter to be the single solution for your pressure and flow applications.

• **Field Upgradeable LCD. No need to order two separate transmitters.** Simply stock a transmitter and display kit (A-435) and you can satisfy any customer's requests. Simply remove cover and snap the LCD onto the board.

• **Field Selectable Ranges in metric or English. Lowers stock and inventory requirements.** You'll always have the right transmitter for every job.



• **Field Selectable Air Velocity Mode** for fan and blower applications. Unit provides square root output that accurately tracks fpm or m/s flow rate. No need for a smart programmable indicator or PLC to convert pressure to air flow. **Reduces components and installation time lowering overall costs.**

• **Digital Push Button Zero and Span.** Reduces calibration time significantly over other transmitters that utilize potentiometers. **Lowers maintenance time and costs.**

• **Adjustable Digital Dampening** smooths out unstable pressure fluctuations common in air flow applications.