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.

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

**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-upgradable 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.
- Typical Accuracy: ±1% FS for 0.15 in w.c. (4 Pa), 0.25 in w.c. (5 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; 10 psi burst.
- Stability: ±1% FSO.
- Temperature Limits: 0 to 150°F (-18 to 66°C).
- Pressure Limits: 1 psi max., operation; 10 psi burst.
- Power Requirements: 10-35 VDC (2-wire), 17-36 VDC or isolated 21.6-33 VAC (3-wire).
- Output Signals: 4-20 mA (2-wire), 0-5 VDC, 0-10 VDC (3-wire).
- Response Time: Averaging 0 to 240 s, 2.5 Hz sample rate, 1.5 to 228 s for 95% step change.
- 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 (6 mm ID); Max. OD 9 mm.
- Weight: 8.0 oz (230 g).
- Agency Approvals: BTL, CE.

**OPTIONS**
- To order add suffix: Description Price
  - LCD Units with display $36.50
  - BC BACnet Communications $75.00
  - MC Modbus® Communications $75.00
  - NIST NIST traceable calibration certificate $139.00
  - FC Factory calibration certificate $30.00

**ACCESSORIES**
- Model Description Price
  - A-151 Cable gland for 5 to 10 mm diameter cable $2.60
  - A-MS2-LCD Field upgradeable display 36.25
  - A-435-A Remote display tool 67.00
  - A-480 Plastic static pressure tip 0.90
  - A-481 Installer kit; includes 2 plastic static pressure tips and 7 ft (2.1 m) of PVC tubing 4.40
  - A-489 303 SS straight static pressure tip with flange 6.90
  - A-302F-A 303 SS static pressure tip with mounting flange; for 3/16" ID rubber or plastic tubing 9.50
  - SCD-PS 100-240 VAC/VDC to 24 VDC power supply 31.00

**MONITORS PRESSURE, AIR VELOCITY AND AIR FLOW, BACNET OR MODBUS® COMMUNICATIONS**