**Differential Pressure Transmitters**

**PRESSURE**

[Image of Differential Pressure Transmitter]

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### Specfications

- **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 FSO.
- **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); 0 to 5 V, 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.
- **Accessories:**
  - A-355, Field Upgradeable LCD
  - A-480, Plastic Static Pressure Tip
  - A-481, Installer kit. Includes 2 plastic static pressure tips and 7 ft (2.1 m) of PVC tubing
  - A-489, 4˝ Straight Static Pressure Tip with Flange
  - A-302F-A, 303 SS Static Pressure Tip with mounting flange. For 3/16” ID rubber or plastic tubing. 4” insertion depth. Includes mounting screws
  - SCD-PS, 100 to 240 VAC/VDC to 24 VDC Power Supply

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### Options

**Note:** Add -LCD to end of model for units with display.

*Models available with duct mount static pressure probe. Change last digit from 1 to 2. Ex. MS-122

**Add suffix -NIST to end of model numbers for NIST traceable calibration certificate. Example: MS-021-NIST.**

**Add suffix -FC to end of model numbers for factory calibration certificate. Example: MS-021-FC.**

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See page 587 for process tubing options.
One Unit for all your Building Pressure Applications
The Industry Standard for Building Automation

- **Field Upgradable LCD.** No need to order two separate transmitters. Simply stock a transmitter and display 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 Damping** smooths out unstable pressure fluctuations common in air flow applications.