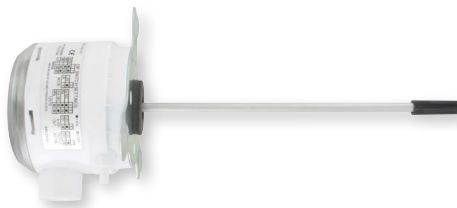
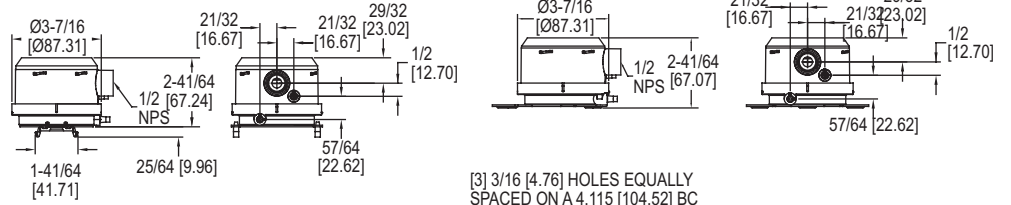


MAGNESENSE® DIFFERENTIAL PRESSURE TRANSMITTER

Monitors Pressure and Air Velocity



Standard MS with optional LCD



Duct mount MS with static probe



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:

FEATURES/BENEFITS

- Field selectable English or Metric ranges
- Field upgradeable LCD display
- Adjustable damping of output signal (with optional display)
- Ability to select a square root output for use with pitot tubes and other similar flow sensors

APPLICATIONS

- Building pressure monitoring
- Duct pressure monitoring
- Fan velocity measurement
- Zone differential pressure monitoring
- Filter condition monitoring

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.

SPECIFICATIONS

| | |
|---|---|
| Service: Air and non-combustible, compatible gases. | Loop Resistance: Current output: 0-1250 Ω max; Voltage output: min. load resistance 1 kΩ. |
| Wetted Materials: Consult factory. | Current Consumption: 40 mA max. |
| 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. | Display (optional): 4 digit LCD. |
| Stability: ±1% FS/year. | 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. |
| Temperature Limits: 0 to 150°F (-18 to 66°C). | Electrical Entry: 1/2" NPS thread; Accessory (A-151): Cable gland for 5 to 10 mm diameter cable. |
| Pressure Limits: 1 psi maximum, operation; 10 psi, burst. | Process Connections: 3/16" (5 mm) ID tubing. Maximum OD 9 mm. |
| Power Requirements: 10-35 VDC (2-wire); 17-36 VDC or isolated 21.6-33 VAC (3-wire). | Enclosure Rating: NEMA 4X (IP66). |
| Output Signals: 4-20 mA (2-wire); 0-5 V, 0-10 V (3-wire). | Mounting Orientation: Diaphragm in vertical position. |
| Response Time: 300 ms. | Weight: 8.0 oz (230 g). |
| Zero & Span Adjustments: Digital push-button. | Agency Approvals: CE. |

ACCESSORIES

| Model | Description |
|----------|--|
| A-151 | Cable gland for 5 to 10 mm cable |
| A-435 | 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" 303 SS 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 | 100-240 VAC/VDC to 24 VDC power supply |

| MODEL CHART | | |
|-------------|---------|---|
| Model | Output | Selectable Ranges |
| MS-121* | 4-20 mA | 0.1 in, 0.25 in, 0.5 in w.c. (25, 50, 100 Pa) |
| MS-321* | 0-10 V | 0.1 in, 0.25 in, 0.5 in w.c. (25, 50, 100 Pa) |
| MS-721* | 0-5 V | 0.1 in, 0.25 in, 0.5 in w.c. (25, 50, 100 Pa) |
| MS-111* | 4-20 mA | 1 in, 2 in, 5 in w.c. (250, 500, 1250 Pa) |
| MS-311* | 0-10 V | 1 in, 2 in, 5 in w.c. (250, 500, 1250 Pa) |
| MS-711* | 0-5 V | 1 in, 2 in, 5 in w.c. (250, 500, 1250 Pa) |
| MS-131 | 4-20 mA | 10 in w.c. (2 kPa) |
| MS-141 | 4-20 mA | 15 in w.c. (3 kPa) |
| MS-151 | 4-20 mA | 25 in w.c. (5 kPa) |
| MS-331 | 0-10 V | 10 in w.c. (2 kPa) |
| MS-341 | 0-10 V | 15 in w.c. (3 kPa) |
| MS-351 | 0-10 V | 25 in w.c. (5 kPa) |
| MS-021 | 4-20 mA | ±0.1 in, 0.25 in, 0.5 in w.c. (±25, 50, 100 Pa) |
| MS-221 | 0-10 V | ±0.1 in, 0.25 in, 0.5 in w.c. (±25, 50, 100 Pa) |
| MS-621 | 0-5 V | ±0.1 in, 0.25 in, 0.5 in w.c. (±25, 50, 100 Pa) |

*Note: For duct mount static pressure probe, change last digit from 1 to 2. Example: MS-122

| OPTIONS | |
|----------------------|--|
| To order add suffix: | Description |
| -LCD | Units with display |
| Example: MS-121-LCD | |
| -NIST | NIST traceable calibration certificate |
| Example: MS-021-NIST | |
| -FC | Factory calibration certificate |
| Example: MS-021-FC | |