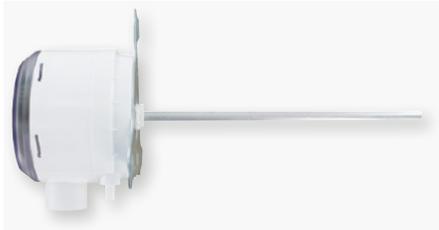
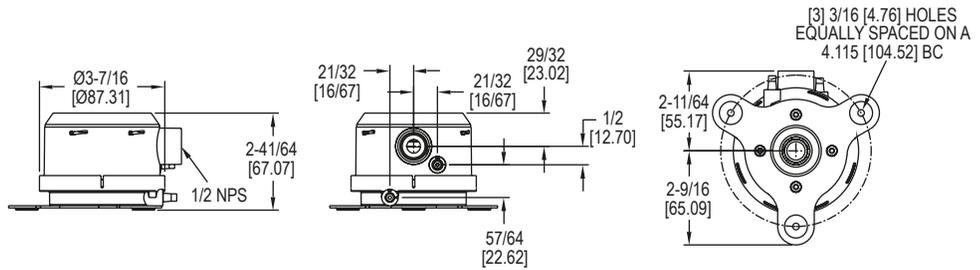


# MAGNESENSE® DIFFERENTIAL PRESSURE TRANSMITTER

Monitors Pressure and Air Velocity



Standard MS with optional LCD



MS with optional LCD and 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

|  |  |
|--|--|
| <p><b>Service:</b> Air and non-combustible, compatible gases.</p> <p><b>Wetted Materials:</b> Consult factory.</p> <p><b>Accuracy:</b> <math>\pm 1\%</math> for 0.25" (50 Pa), 0.5" (100 Pa), 2" (500 Pa), 5" (1250 Pa), 10" (2 kPa), 15" (3 kPa), 25" (5 kPa); <math>\pm 2\%</math> for 0.1" (25 Pa), 1" (250 Pa) and all bi-directional ranges.</p> <p><b>Stability:</b> <math>\pm 1\%</math> FS/year.</p> <p><b>Temperature Limits:</b> 0 to 150°F (-18 to 66°C).</p> <p><b>Pressure Limits:</b> 1 psi maximum, operation; 10 psi, burst.</p> <p><b>Power Requirements:</b> 10-35 VDC (2-wire); 17-36 VDC or isolated 21.6-33 VAC (3-wire).</p> <p><b>Output Signals:</b> 4-20 mA (2-wire); 0-5 V, 0-10 V (3-wire).</p> <p><b>Response Time:</b> Adjustable 0.5 to 15 s time constant. Provides a 95% response time of 1.5 to 45 seconds.</p> | <p><b>Zero &amp; Span Adjustments:</b> Digital push-button.</p> <p><b>Loop Resistance:</b> Current output: 0-1250 <math>\Omega</math> max; Voltage output: min. load resistance 1 k<math>\Omega</math>.</p> <p><b>Current Consumption:</b> 40 mA max.</p> <p><b>Display (optional):</b> 4 digit LCD.</p> <p><b>Electrical Connections:</b> 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.</p> <p><b>Electrical Entry:</b> 1/2" NPS thread; Accessory (A-151): Cable gland for 5 to 10 mm diameter cable.</p> <p><b>Process Connections:</b> 3/16" (5 mm) ID tubing. Maximum OD 9 mm.</p> <p><b>Enclosure Rating:</b> NEMA 4X (IP66).</p> <p><b>Mounting Orientation:</b> Diaphragm in vertical position.</p> <p><b>Weight:</b> 8.0 oz (230 g).</p> <p><b>Agency Approvals:</b> CE.</p> |
|--|--|

| 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 | $\pm 0.1$ in, 0.25 in, 0.5 in w.c. ( $\pm 25$ , 50, 100 Pa) |
| MS-221      | 0-10 V  | $\pm 0.1$ in, 0.25 in, 0.5 in w.c. ( $\pm 25$ , 50, 100 Pa) |
| MS-621      | 0-5 V   | $\pm 0.1$ in, 0.25 in, 0.5 in w.c. ( $\pm 25$ , 50, 100 Pa) |

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

| ACCESSORIES |  |
|-------------|--|
| Model       | Description  |
| 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" 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   |

| 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   |  |

Process Tubing Options: See page 455 (Gage Tubing Accessories)

DWYER INSTRUMENTS, INC. | dwyer-inst.com 67



Contáctanos:  
Telf. (+51) 640 1666  
Cel. (+51) 941 451 011



Cotizaciones:  
ventas@inprocess.com.pe

