MAGNESENSE® DIFFERENTIAL PRESSURE TRANSMITTER
Monitors Differential Pressure, Air Velocity, and Volumetric Flow

The Series MSX Magnesense® Differential Pressure Transmitter combines the stability and versatility of the original Series MS2 Magnesense® II transmitter for use in building control applications. The MSX simplifies the ordering process to deliver the desired configuration, which reduces product setup time. Pressure ranges are available in Pa, mm w.c., and in w.c. All pressure ranges can be configured in unidirectional or bidirectional modes, providing a total of 32 ranges. The MSX transmitter can provide a linear pressure output or a linear velocity output with the square root extraction from the transmitter. Additional parameters have been included to expand the square root functionality.

APPLICATIONS
• Add safety to variety of applications with UL94 V-0 and plenum ratings
• Quick and easy wiring via the optional toolless terminal block

BENEFITS/FEATURES
• Provides both control and equipment output signal verification.
• The transmitter. Additional parameters have been included to expand the square root functionality.

SPECIFICATIONS
Service: Air and non-combustible, compatible gases.
Wetted Materials: Consult factory.
Accuracy: ±1% FSO.
Stability: ±1% FSO/year.
Temperature Limits: -4 to 158°F (-20 to 70°C).
Pressure Limits: Ranges 0 and 1: 3.6 psi max operation, 6 psi burst; Ranges 2 and 3: 6 psi max operation, 6 psi burst.
Power Requirements: 10-36 VAC (3-wire), 17-36 VDC or isolated 21.6-33 VDC (2-wire), 17-36 VDC or isolated 21.6-33 VDC (2-wire).
Output Signals: -4.20 mA (2-wire); 0-10 V or 0-5 V selectable (3-wire).
Response Time: Instantaneous (default) or 3 s (selectable).
Zero and Span Adjustments: Digital push-button.
Loop Resistance: Current output: 0-1250 Ω max; Voltage output: min. load resistance 1 kΩ.
Current Consumption: 21 mA max continuous.
Electrical Connections: 4-wire removable European style terminal block for 16 to 26 AWG.
Electrical Entry: 1/2” NPS thread.
Display (optional): 4 digit LCD.
Process Connections: 1/8˝, 3/16˝, 1/4˝, 5 mm, and 6 mm ID flexible tubing.
Enclosure Rating: NEMA 4X (Plenum), UL2043 (Plenum), UL94 V-0.
Mounting Orientation: Pressure sensor measurement unaffected by orientation.
Weight: 8.0 oz (230 g).
Agency Approvals: CE.

OPTIONS
Range | in w.c. | Pa low | Pa high | mm w.c.
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Range 0 | 0.5 | 25 | 60 | 2.5
| 0.15 | 30 | 75 | 5
| 0.25 | 40 | 100 | 10
| 0.5* | 50 | 125* | 12*  
Range 1 | 0.15 | 40 | 150 | 5
| 0.25 | 50 | 160 | 10
| 0.5* | 60 | 250* | 25*

Range 2 | 1 | 250 | 600 | 25
| 2 | 300 | 750 | 50
| 3* | 400 | 1000 | 100
| 5* | 500 | 1250* | 125*

Range 3 | 10 | 1000 | 3000 | 250
| 15 | 1500 | 4000 | 350
| 25 | 2500 | 5000 | 500
| 28* | 2500 | 7000* | 700*

*Indicated values are the full scale output values per range.

ACCESSORIES
Model | Description
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A-480 | Plastic static pressure tip
A-461 | Install kit, includes 2 plastic static pressure tips and 7 ft (2.1 m) of PVC tubing
A-MSX-LCD | Replacement display for the Series MSX

The Series MSX Magnesense® Differential Pressure Transmitter monitors differential pressure, air velocity, and volumetric flow in various applications. It offers features such as safety, quick wiring, and expandable square root functionality. Specifications include accuracy, stability, temperature limits, and pressure limits. Options and accessories are also provided for customization and expansion.