MAGNESENSE[®] DIFFERENTIAL PRESSURE TRANSM Monitors Differential Pressure, Air Velocity, and Volumetric Flow 3-9/64 -1/2 NPSM [79.96] 1-31/32 [49.89] Dwyer MAGNESENSE MSX 3-9/64 1/2 NPSM [79.96] 1-29/32 [48.36] 1-3/16 [30.02] 13/32 43/6/ [10.29] [42.50] 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 SPECIFICATIONS

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 capability for calculating flow. Dual voltage and milliamp output signals can be used to provide both control and equipment output signal verification.

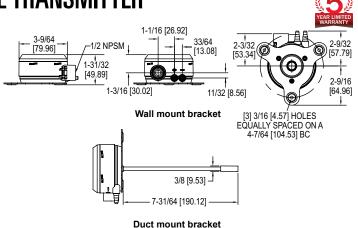
BENEFITS/FEATURES

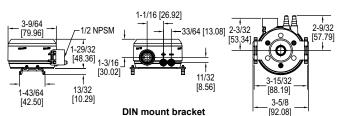
- Read LCD values easier with rotatable 180° display
- Quick and easy wiring via the optional toolless terminal block
 Add safety to variety of applications with UL94 V-0 and plenum ratings

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

| MODEL CHART | | | | | | | |
|------------------|-----|-------------|--------|-----------------------|----------------|--|--|
| Example | MSX | -W | 1 | 3 | -IN | -LCD | MSX-W13-IN-LCD |
| Series | MSX | | | | | | Magnesense [®] differential pressure transmitter |
| Mounting | | W U N | | | | | Wall mount Universal (wall or duct) mount DIN rail mount |
| Direction | | | 1 2 | | | | Unidirectional Bidirectional |
| Range | | | | 0 1 2 3 4 | | | .5 in w.c., 125 Pa, 12.5 mm w.c. 1 in w.c., 250 Pa, 25 mm w.c. 5 in w.c., 1250 Pa, 125 mm w.c. 28 in w.c., 7000 Pa, 700 mm w.c. 15 in w.c., 4000 Pa, 400 mm w.c. |
| Pressure Unit | | | | | in Pa Mm | | Inches water column Pascal Millimeters water column |
| Options | | | | | | A481 COM FC GLD LCD NIST STX TT WO | Installer kit, includes 2 plastic static pressure tips and 7 ft (2.1m) of PVC tubing BACnet/Modbus® communications Factory calibration certificate Filtered pickup with barb Liquid tight cable gland fitting Liquid crystal display NIST traceable calibration certificate Two (2) plastic static pressure tips Toolless terminal block LCD cover without LCD display |





| SPECIFICATIONS | |
|---|-------|
| Service: Air and non-combustible, | Loo |
| compatible gases. | 0-12 |
| Wetted Materials: Consult factory. | resis |
| Accuracy: ±1% FSO. | Curr |
| Stability: ±1% FSO/year. | conti |
| Temperature Limits: -4 to 158°F (-20 | Elec |
| to 70°C). | remo |
| Pressure Limits: Ranges 0 and 1: 3.6 | for 1 |
| psi max operation, 6 psi burst; Ranges 2, | Elec |
| 3 and 4: 6 psi max operation, 6 psi burst. | Disp |
| Power Requirements: 10-36 VDC | Proc |
| (2-wire), 17-36 VDC or isolated 21.6-33 | 5 mr |
| VAC (3-wire). | Encl |
| Output Signals: 4-20 mA (2-wire); 0-10 | UL 2 |
| V or 0-5 V selectable (3-wire). | Mou |
| Response Time: Instantaneous (default) | mea |
| or 3 s (selectable). | Weig |
| Zero and Span Adjustments: Digital | Com |
| push-button. | |

pp Resistance: Current output: 250 Ω max; Voltage output: min. load stance 1 kΩ. rent Consumption: 21 mA max inuous ctrical Connections: 4-wire ovable European style terminal block 16 to 26 AWG. ctrical Entry: 1/2" NPS thread. ctrical Entry: 1/2 NPS thread. play (optional): 4 digit LCD. cess Connections: 1/8", 3/16", 1/4", m, and 6 mm ID flexible tubing. closure Rating: NEMA 4X (IP66), 2043 (Plenum), UL94 V-0. unting Orientation: Pressure sensor percement unaffected by acidentian surement unaffected by orientation. ight: 8.0 oz (230 g). npliance: CE.

PRESSURE

| push-button. | - | U | • | | | |
|--|--|--------|---------|---------|--|--|
| OPTIONS | | | | | | |
| Range | in w.c. | Pa low | Pa high | mm w.c. | | |
| Range 0 | 0.1 | 25 | 60 | 2.5 | | |
| | 0.15 | 30 | 75 | 5 | | |
| | 0.25 | 40 | 100 | 10 | | |
| | 0.5* | 50 | 125* | 12* | | |
| Range 1 | 0.1 | 25 | 100 | 2.5 | | |
| | 0.25 | 40 | 150 | 5 | | |
| | 0.5 | 50 | 160 | 10 | | |
| | 1* | 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 | 2000 | 5000 | 500 | | |
| | 28* | 2500 | 7000* | 700* | | |
| Range 4 | 1 | 250 | 1000 | 25 | | |
| | 5 | 300 | 2000 | 125 | | |
| | 10 | 400 | 3000 | 250 | | |
| | 15* | 500 | 4000* | 400* | | |
| *Indicated values are the positive full-scale output values per range. Note: Ranges indicated in the table are the high end of the set range. All ranges have a low end pressure value of 0. | | | | | | |
| ACCESSORIES | | | | | | |
| Model | Description | | | | | |
| 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-MSX-LCD | Replacement display for the Series MSX |

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