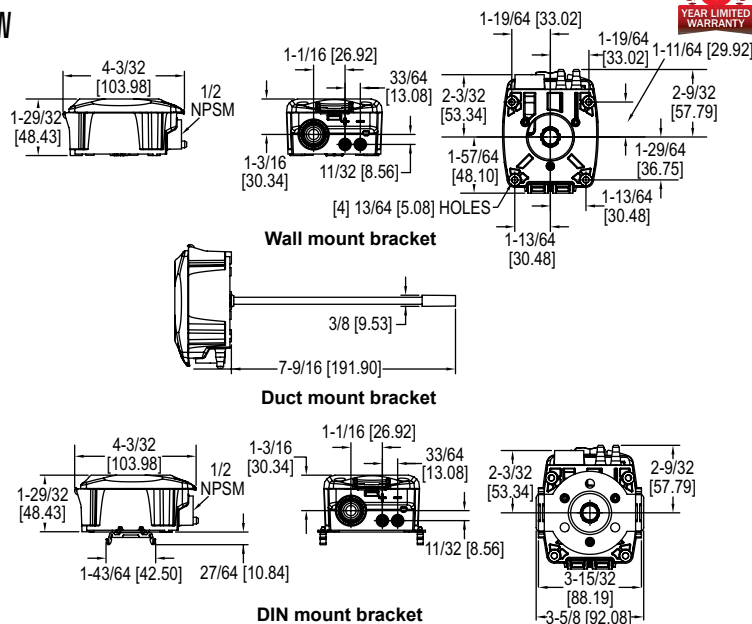
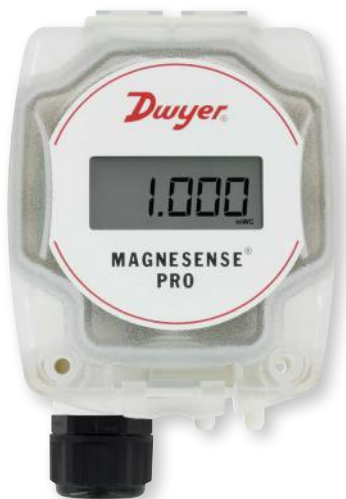


MAGNESENSE® DIFFERENTIAL PRESSURE TRANSMITTER

Monitors Differential Pressure, Air Velocity, and Volumetric Flow



The **Series MSX Pro Magnesense® Differential Pressure Transmitter** is the professional differential pressure transmitter meeting stringent industry standards with innovative global product design. The device has exceptional stability for use in critical building performance applications with the popular versatility of our original Series MS2 Magnesense® II transmitter. The MSX Pro simplifies the ordering process to deliver the desired configuration, which reduces product setup time. Pressure ranges of Pa, mm w.c., and in w.c. are available per device. All pressure ranges can be configured in unidirectional or bidirectional modes providing a total of 32 ranges. The MSX Pro 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 to calculate flow. Dual voltage and milliamp output signals can be used to provide control and equipment output signal verification.

BENEFITS/FEATURES

- Easily access the unit's wiring via the flip-lid housing
- Eliminates accidental damage to the unit during installation with the products innovative design shielding the electronics underneath the PCB
- Added security and protection from the tamper-resistant cover
- Protection from liquids and moisture near the cable egress point with the included liquid tight cable gland fitting
- Reduce installation time with quick and easy wiring via the included a toolless terminal block
- Add safety to variety of applications that need to meet municipal and building code standards with UL94 V-0 and plenum ratings
- Supports exacting measurement and control for critical environments through precision accuracy

APPLICATIONS

- High performance building applications for critical environments
- Filter monitoring in air handler units
- Building pressure in pharmaceutical/semiconductor clean rooms
- Duct static pressure in commercial and specialized buildings
- Air velocity/flow in VAV systems

MODEL CHART

Example	MSXP	-W	1	3	-IN	-LCD	MSXP-W13-IN-LCD
Series	MSXP						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 FP LCD NIST STX 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 crystal display NIST traceable calibration certificate Two (2) plastic static pressure tips LCD cover without LCD display

SPECIFICATIONS

Service: Air and non-combustible, compatible gases. Wetted Materials: Consult factory. Accuracy: ±0.5% FSO for all ranges except unidirectional .5 in. @ ±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, 3 and 4: 6 psi max operation, 6 psi burst. Power Requirements: 10-36 VDC (2-wire), 17-36 VDC or isolated 21.6-33 VAC (3-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. Cable gland included. 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 (IP66), UL 2043 (Plenum), UL94 V-0. Mounting Orientation: Pressure sensor measurement unaffected by orientation. Weight: 8.0 oz (230 g). Compliance: CE.
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OPTIONS

Range	in w.c.	Pa low	Pa high	mm w.c.
Range 0	0.05 0.1 0.25 0.5*	15 25 40 50	60 75 100 125*	1.25 2.5 5 12*
Range 1	0.1 0.25 0.5 1*	25 40 50 60	100 150 160 250*	2.5 5 10 25*
Range 2	1 2 3 5*	250 300 400 500	600 750 1000 1250*	25 50 100 125*
Range 3	10 15 25 28*	1000 1500 2000 2500	3000 4000 5000 7000*	250 350 500 700*
Range 4	1 5 10 15*	250 300 400 500	1000 2000 3000 4000*	25 125 250 400*

*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-MSXP-LCD	Replacement display for the Series MSX Pro

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