Duyer. SERIES MS | MAGNESENSE® DIFFERENTIAL PRESSURE TRANSMITTER





Duct mount

FEATURES/BENEFITS

- · Field upgradeable LCD-No need to order two separate transmitters
- Field selectable ranges in metric or English
- Digital push button zero and span
- Adjustable digital dampening
- Field selectable air velocity mode
- Ability to select a square root output for use with pitot tubes and other similar flow sensors

APPLICATIONS

- Pressure and flow
- Monitoring air velocity
- Fans and blowers

DESCRIPTION

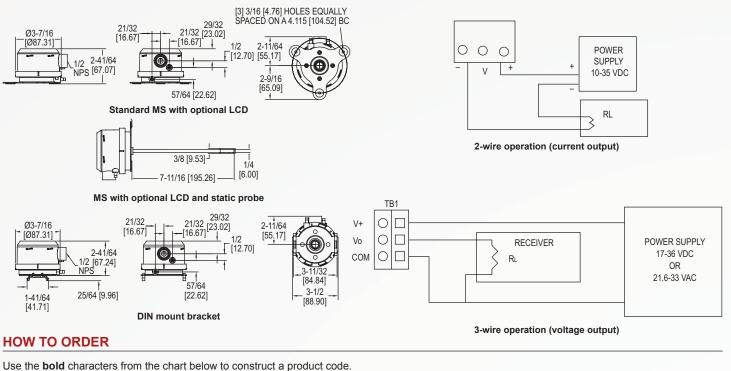
The Series MS Magnesense® Differential Pressure Transmitter is an extremely versatile transmitter for monitoring pressure and air velocity. Along with the described features, the patented magnetic sensing technology provides exceptional long term performance and enables the Magnesense® Differential Pressure Transmitter to be the single solution for your pressure and flow applications.

SPECIFICATIONS

Service	Air and non-combustible compatible gases.
Wetted Materials	Consult factory.
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 bidirectional ranges.
Stability	±1% FS/year.
Temperature Limits	0 to 150°F (-18 to 66°C).
Pressure Limits	1 psi maximum, operation; 10 psi, burst.
Power Requirements	10-35 VDC (2-wire); 17-36 VDC or isolated 21.6-33 VAC (3-wire).
Response Time	300 ms.
Zero & Span Adjustments	Digital push button.
Loop Resistance	Current output: 0-1250 Ω max; Voltage output: min. load resistance 1 k Ω .
Current Consumption	40 mA max.
Display (optional)	4 digit LCD.
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 10 to 22 AWG.
Electrical Entry	1/2" NPS thread. Accessory: Cable gland for 5 to 10 mm diameter cable.
Process Connection	3/16" (5 mm) ID tubing. Maximum OD 9 mm.
Enclosure Rating	NEMA 4X (IP66).
Mounting Orientation	Diaphragm in vertical position.
Weight	8.0 oz (230 g).
Agency Approvals	CE.

DIMENSIONS

WIRING DIAGRAM



MS -AT -0 SERIES **OPTIONS** MS - Magnesense® differential pressure transmitter -AT: Aluminum tag -DJE: Velocity mode selectable decimal place **OUTPUT** -(English units) -0: Bidirectional unit, 4-20 mA -DJM: Velocity mode selectable decimal place -1: Positive only unit, 4-20 mA (metric units) -2: Bidirectional unit, 0-10 V -DS: MS-DS desiccant cover -3: Positive only unit, 0-10 V -6: Bidirectional unit, 0-5 V -FC: Factory calibration -GLD: Cable gland accessories pack -7: Positive only unit, 0-5 V -LCD: Liquid crystal display -8: Bidirectional unit, 0-5 V output 0-12 VDC input -NIST: NIST traceable calibration certificate -9: Positive only unit, 0-5 V output 0-12 VDC input -ST: Stainless steel tag -WO: LCD cover without LCD display PRESSURE RANGE 1: High range 1, 2, 5 in w.c. & 250, 500, 1250 Pa MOUNTING 2: Low range 0.1, 0.25, 0.5 in w.c. & 25, 50, 100 Pa 1: Wall mount 3: 10 in w.c. & 2 kPa 2: Duct mount 4: 15 in w.c. & 3 kPa 3: DIN mounting bracket 5: 25 in w.c. & 5 kPa

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 (2.1m) 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	

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