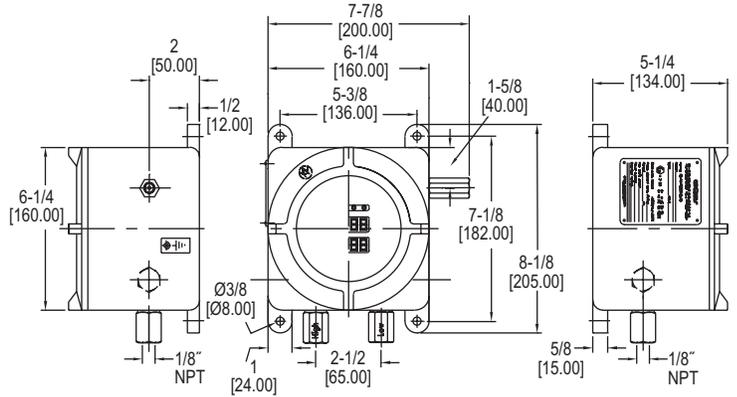


ATEX APPROVED MAGNESENSE® DIFFERENTIAL PRESSURE TRANSMITTER

Series MS in Flame-Proof ATEX Enclosure



The **Series AT2MS ATEX Approved Magnesense® Differential Pressure Transmitter** is an extremely versatile transmitter for monitoring pressure and air velocity in hazardous areas. This transmitter is loaded with features such as: field selectable English or metric ranges, field upgradeable LCD display, adjustable dampening of output signal and the ability to select a square root output for use with pitot tubes and other similar flow sensors. Along with these features, the magnetic sensing technology provides exceptional long term performance and enables the Magnesense® transmitter to be the solution for a myriad of pressure and flow applications. Flame-proof ATEX enclosures are available in aluminum and can include a glass window for viewing process on the LCD.

FEATURES/BENEFITS

- ATEX housing provides all the capabilities and value of the MS2 in a flame & explosion proof enclosure
- Durable and rugged housing and high-quality components combined provides long-service life and minimized down-time
- High impact strength and high temperature rated for applications where hazardous environments exist

APPLICATIONS

- Monitor pressures in ducts, rooms, or total building pressures
- Filter monitoring
- Local indication of clean room pressures with process signal sent to control room
- Hazardous area pressure measurement and transmitter

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.
Wetted Materials: Consult factory.
Accuracy: MS-X21: 0.5 in w.c. & 0.25 in w.c.: ±1%; 0.1 in w.c.: ±2%; 100 Pa & 50 Pa: ±1%; 25 Pa: ±2%. MS-X11: 5 in w.c. & 2 in w.c.: ±1%; 1 in w.c.: ±2%; 1250 Pa & 500 Pa: ±1%; 250 Pa: ±2% (@ standard conditions).
Stability: ±1% FS/year.
Temperature Limits: 0 to 150°F (-18 to 66°C); Case: -76 to 140°F (-60 to 60°C) (Note: Product temperature limits differ from case).
Pressure Limits: 1 psi max., operation; 10 psi, burst.
Power Requirements: 10 to 35 VDC (2-wire); 17 to 36 VDC or isolated 21.6 to 33 VAC (3-wire).
Output Signals: 4 to 20 mA (2-wire); 0 to 5 V, 0 to 10 V (3-wire).
Response Time: Field adjustable 0.5 to 15 s time constant. Provides a 95% response time of 1.5 to 45 seconds.
Zero & Span Adjustments: Digital push button. In safe zone only.

Loop Resistance: Current output: 0 to 1250 Ω max.; Voltage output: min. load resistance 1 k Ω.
Current Consumption: 40 mA max. Display: 4 digit LCD.
Electrical Wiring: 4 to 20 mA, 2-wire: European style terminal block for 16 to 26 AWG. 0 to 10 V, 3-wire: European style terminal block 16 to 22 AWG.
Mounting Orientation: Diaphragm in vertical position.
Enclosure Rating: 4X IP66, IP65 with option OPV overpressure relief valve.
Housing Material: Aluminum.
Finishing: Texture epoxy coat RAL7038.
Process Connections: 1/8" NPT female brass (SS optional). In presence of acetylene it is necessary to use SS.
Electrical Connections: Two 1/2" NPT female. Cable gland not included.
Weight: 11 lb (5 kg).
ATEX Approved Products from Comhas with ECN: BVI 14ATEX0072.
Agency Approvals: CE 1370 Ex II 2 GD Ex d IIC Gb T6; -60°C ≤ Ta ≤ +60°C Ex tb IIIC Db T 85°C.

MODEL CHART											
Example	AT2MS	-0	-1	1	-LCD	-A	O	1	X	T2	AT2MS-0-11-LCD-AO1XT2
Series	AT2MS										ATEX approved Magnesense® differential pressure transmitter
Output		0 1 2 3 6 7 8 9									Bidirectional, 4 to 20 mA Positive range, 4 to 20 mA Bidirectional, 0 to 10 VDC Positive range, 0 to 10 VDC Bidirectional, 0 to 5 VDC Positive range, 0 to 5 VDC Bidirectional, 0 to 5 VDC, 12 volt in Positive range, 0 to 5 VDC, 12 volt in
Range			1 2 3 4 5								1, 2, 5 in w.c. (200, 500, 1000 Pa) .1, .25, .5 in w.c. (25, 50, 100 Pa) 10 in w.c. (2 kPa) 15 in w.c. (3 kPa) 25 in w.c. (5 kPa)
Mounting				1							Wall
Display					LCD						With LCD
Housing						A					Aluminum
Cover							B O				Blind Glass top cover
Process Connection								1 2			1/8" NPT female brass ports 1/8" NPT female SS ports
Overpressure Plug									X OPV		Standard without overpressure relief valve Overpressure relief valve Material same as ports
Tag										T2	SS information label

*Add on applies to range -2 only.