

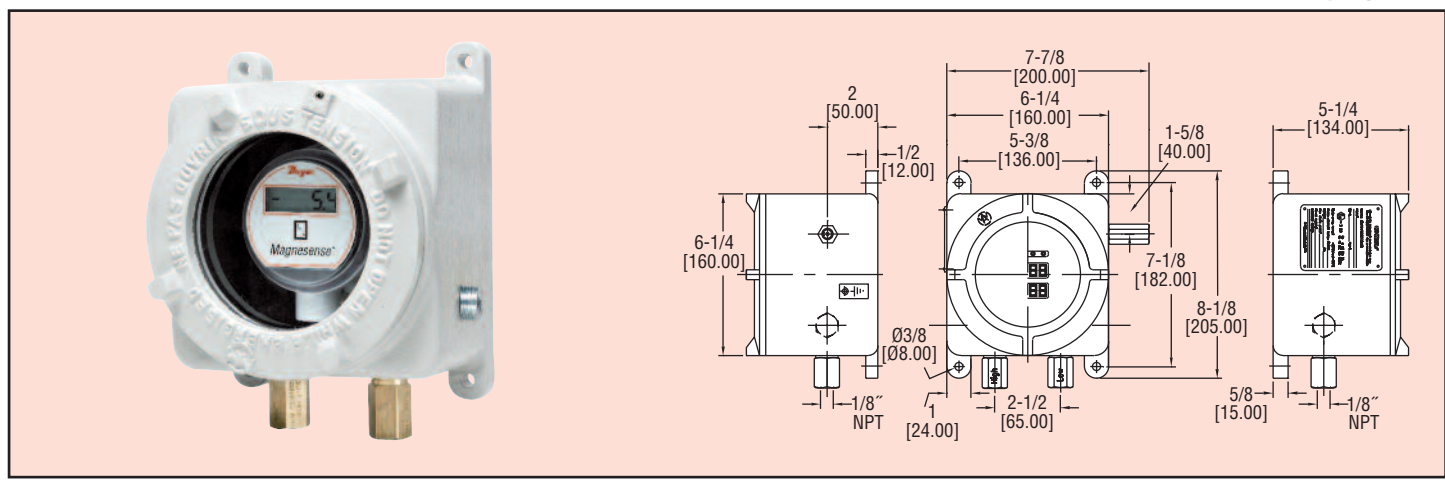


Series AT2MS **ATEX Approved Magnesense[®] Differential Pressure Transmitter**
 Series MS in Flame-Proof ATEX Enclosure



PRESSURE

Hazardous Area



The ATEX Approved **Series AT2MS 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.

Important notes for installation:

- Cables must be fitted through 1/2" NPT cable gland or ATEX conduit (not supplied with instrument).
- Make sure after cabling to close tight cover and cable gland, in order to keep IP66 rating (IP65 with option OPV, overpressure relief valve).
- Open cover only after de-energizing instrument.
- **Attention:** Check local safety rules and warnings on unit and manual for a correct use of the instrument in hazardous area.

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: -58 to 140°F (-50 to 60°C) (**Note:** Product temperature limits differ from case).
Pressure Limits: 1 psi maximum, 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 sec. 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 ohm max.; Voltage output: min. load resistance 1 k ohm.
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.
Pressure Connections: 1/8" NPT female brass (SS optional). In presence of acetylene it is necessary to use SS.
Electrical Connections: Two 1/2" FNPT. Cable gland not included.
Weight: 11 lb (5 kg).
ATEX Approved Products from Comhas with ECN: NEMKO 10ATEX1096.
Agency Approvals: CE 0470 II2 GD Ex d IIC Gb T6; -50°C ≤ Ta ≤ +60°C Ex tb IIIC Db T 85°C.

Series	AT2MS																				
Output		-0																			Bidirectional, 4 to 20 mA
		-1																			Positive range, 4 to 20 mA
		-2																			Bidirectional, 0 to 10 VDC
		-3																			Positive range, 0 to 10 VDC
		-6																			Bidirectional, 0 to 5 VDC
		-7																			Positive range, 0 to 5 VDC
		-8																			Bidirectional, 0 to 5 VDC, 12 volt in
		-9																			Positive range, 0 to 5 VDC, 12 volt in
Range			-1																		1, 2, 5" 200, 500, 1000 Pa
			-2																		.1, .25, .5"; 25, 50, 100 Pa
			-3																		10"; 2 kPa
			-4																		15"; 3 kPa
			-5																		25"; 5 kPa
Mounting				1																	Wall
Display					-LCD																With LCD
Housing Material						-A															Aluminum
Housing Options											B										Blind
											O										Glass top cover
											1										1/8" NPT female brass ports
											2										1/8" NPT female SS ports
												X									Standard without overpressure relief valve
													OPV								Overpressure relief valve
																					Material same as ports
																					SS information label
																					T2