

AT2

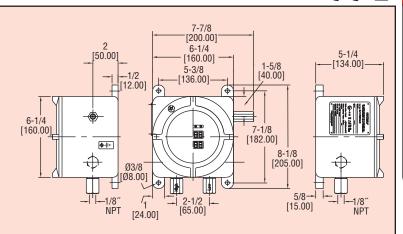
ATEX Approved Magnesense® Differential **Pressure Transmitter**

Series MS in Flame-Proof ATEX Enclosure









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 the 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 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 O

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

Electrical Connections: Two 1/2" NPT female. Cable gland not included.

Weight: 11 lb (5 kg).

ATEX Approved Products from Comhas with ECN: NEMKO

10ATEX1096.

Agency Approvals: CE 0470 (Ex) 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 in w.c. (200, 500, 1000 Pa)
			-2								.1, .25, .5 in w.c. (25, 50, 100 Pa)
			-3								10 in w.c. (2 kPa)
			-4								15 in w.c. (3 kPa)
			-5								25 in w.c. (5 kPa)
Mounting				1							Wall
Display					-LCD						With LCD
Housing						-A					Aluminum
Cover							В				Blind
							0				Glass top cover
Process								1			1/8" NPT female brass ports
Connection								2			1/8" NPT female SS ports
Overpressure									Χ		Standard without overpressure
Plug											relief valve
									OPV		Overpressure relief valve
											Material same as ports
Tag										T2	SS information label