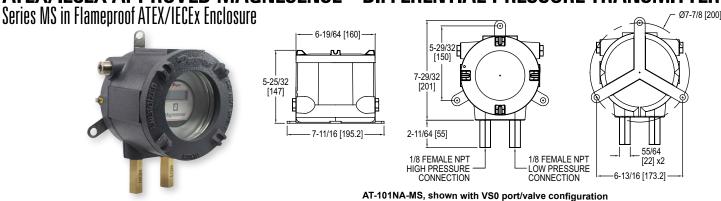
Dwyer SERIES AT-MS

X/IECEX APPROVED MAGNESENSE® DIFFERENTIAL PRESSURE TRANSM



The Series AT-MS ATEX/IECEx 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 long-term performance and enables the Magnesense® transmitter to be the solution for a myriad of pressure and flow applications. Flameproof enclosures are available in aluminum and can include a glass window for viewing process on the LCD.

BENEFITS/FEATURES

- · All the capabilities and value of the MS2 in an ATEX/IECEx approved enclosure Long service life and minimized downtime due to durable, rugged housing and
- high-quality components · 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

PRESSURE LIMITS

Port/Valve

VS0

· Local indication of clean room pressures with process signal sent to control room

Both Pressure

10 kPa

Ports Connected

· Hazardous area pressure measurement and transmitter

One Pressure

10 kPa

10 kPa

Port Connected

SPECIFICATIONS Service: Air and non-combustible. Current Consumption: 40 mA max. compatible gases. Display: 4 digit LCD. Wetted Materials: Consult factory. Electrical Wiring: 4-20 mA, 2-wire: European style terminal block for 16 to 26 AWG. 0-10 V, 3-wire: European style Accuracy: MS-X21: 0.5 in w.c. and 0.25 in w.c.: ±1%; 0.1 in w.c.: ±2%; 100 Pa and 50 Pa: ±1%; 25 Pa: ±2%. MS-X11: 5 in w.c. and 2 in w.c.: ±1%; 1 in w.c.: ±2%; 1250 Pa and 500 Pa: ±1%; 250 Pa: ±2% (@ standard conditions). Stability: ±1% FS/year. Temperature Limits: 0 to 150°F (-18 to 66°C) (Note: Product temperature limits differ from case). Pressure Limits: 1 psi max., operation; See pressure limit chart for burst. Power Requirements: 10-35 VDC (2-wire); 17-36 VDC or isolated 21.6-33 VAC (3-wire). Output Signals: 4-20 mA (2-wire); 0-5 V 0-10 V (3-wire). Response Time: 300 ms. Zero and Span Adjustments: Digital push-button. In safe zone only. Loop Resistance: Current output: 0 to

1250 Ω max.; Voltage output: min. load resistance 1 kΩ.

terminal block 16 to 22 AWG Mounting Orientation: Diaphragm in vertical position Enclosure Rating: IP66. Housing Material: Aluminum Finishing: Texture epoxy coat RAL7038. Process Connections: 1/8" NPT female brass (SS optional). Electrical Connections: Two 1/2" NPT female. Cable gland not included. Weight: 11 lb (5 kg). ATEX Certificate: EPT 19 ATEX 3192 X. Allex Cornicate: EPT 19 ALEX 3192 Agency Approvals: ATEX compliant: $C \in 0477$ (\gtrsim) II 2G Ex db IIC T5, T6 Gb -60°C \leq Ta \leq +50°C (T6) -60°C \leq Ta \leq +60°C (T5) II 2D Ex tb IIIC T75 °C Db IECEx Compliant: Ex db IIC T5, T6 Gb -60°C ≤Ta ≤+50°C (T6) -60°C ≤Ta ≤+60°C (T5) Ex tb IIIC T75°C Db.

VL0 10 kPa		10 1	кРа								
MODEL CHART											
Example	AT	-101NA	-MS	-0	1	-LCD	-W	1	VS0	12	AT-101NA-MS-01-LCD-W1VS012
Enclosure	AT										ATEX/IECEx approved enclosure
Housing Material		101NA									Aluminum enclosure
Series			MS								Magnesense differential pressure transmitter
Output				0 1 2 3 6 7 8 9							Bidirectional 4-20 mA Positive range 4-20 mA Bidirectional 0-10 V Positive range 0-10 V Bidirectional 0-5 V Positive range 0-5 V Bidirectional 0-5 V output 0-12 VDC input (not all ranges) Positive range 0-5 V output 0-12 VDC input (not all ranges)
Range					1 2 3 4 5						1, 2, 5 in w.c. and 250, 500, 1250 Pa 0.1, 0.25, 0.5 in w.c. and 25.50, 100 Pa 10 in w.c. and 2 kPa 15 in w.c. and 3 kPa 25 in w.c. and 5 IPa
Options						LCD					With LCD
Cover							B W				Blind Glass window
Port/Valve Material								1 2			Brass Stainless steel
Port/Valve Configurations									VS0 VL0		STD port/no valve LD port/no valve
Cable Entry										12	1/2" NPT ANSI/ASME B1.20.1