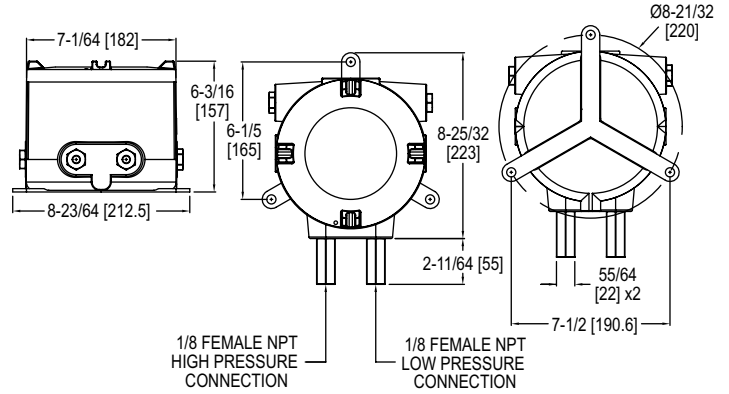


ATEX/IECEX APPROVED MAGNESENSE® DIFFERENTIAL PRESSURE TRANSMITTER

Series MSX Flameproof ATEX/IECEX Enclosure



AT-102NA-MSX, shown with VS0 port/valve configuration

The **Series AT-MSX 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 piezo 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 MSX 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 pressure
- 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: ±1% FSO.
Stability: ±1% FSO/year.
Temperature Limits: -4 to 158°F (-20 to 70°C).
Pressure Limits: See chart.
Power Requirements: 10-36 VDC (2-wire), 17-36 VDC or isolated 21.6-33 VAC (3-wire).
Output Signal: 4-20 mA (2-wire); 0-10 V or 0-5 V selectable (3-wire).
Response Time: Instantaneous (default) or 3 s (selectable) without considering delay caused by Exd flame arrestors (up to 30 s from FS to zero depending model and ranges with STD pressure ports) about 15 s with LD pressure ports on very low ranges.
Zero and Span Adjustments: Digital push-button.
Loop Resistance: Current output: 0 to 1250 Ω max.; Voltage output: min. load resistance 1 kΩ.
Current Consumption: 21 mA max continuous.

Display: 4 digit LCD.
Electrical Wiring: 4-wire removable European style terminal block for 16-26 AWG.
Mounting Orientation: Pressure sensor measurement unaffected by orientation.
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: 12.3 lb (5.6 kg).
ATEX Certificate: INERIS 21ATEX0033X.
IECEX Certificate: IECEX INE 21.0064X.
Compliance: ATEX: CE 0080 Ex II 2G Ex db IIC T5, T6 Gb -60°C ≤ Ta ≤ +50°C (T6) -60°C ≤ Ta ≤ +60°C (T5); II 2D Ex tb IIIC T75°C Db
 IECEX: Ex db IIC T5, T6 Gb -60°C ≤ Ta ≤ +50°C (T6) -60°C ≤ Ta ≤ +60°C (T5) Ex tb IIIC T75°C Db.

Differential Pressure Transmitters, Air & Gas

| MODEL CHART | | | | | | | | | | | |
|---|----|--------|------|----|---|-----|------|----|------|----|---|
| Example | AT | -102NA | -MSX | -1 | 0 | -IN | -LCD | -W | 1VS0 | 12 | AT-102NA-MSX-10-IN-LCD-W1VS012 |
| Enclosure | AT | | | | | | | | | | ATEX/IECEX approved enclosure |
| Housing Material | | 102NA | | | | | | | | | Aluminum enclosure |
| Series | | | MSX | | | | | | | | Magnesense® differential pressure transmitter |
| Direction | | | | 1 | | | | | | | Uni-directional |
| | | | | 2 | | | | | | | Bi-directional |
| Pressure Range | | | | | 0 | | | | | | 0.5 in w.c., 125 Pa, 12 mm w.c. |
| | | | | | 1 | | | | | | 1 in w.c., 250 Pa, 25 mm w.c. |
| | | | | | 2 | | | | | | 5 in w.c., 1250 Pa, 125 mm w.c. |
| | | | | | 3 | | | | | | 28 in w.c., 7000 Pa, 700 mm w.c. |
| Units of Measure | | | | | | IN | | | | | Inches of water column |
| | | | | | | PA | | | | | Pascal |
| | | | | | | MM | | | | | Millimeters of water column |
| Display | | | | | | | LCD | | | | With LCD |
| Cover | | | | | | | | B | | | Blind |
| | | | | | | | | W | | | Glass window |
| Port/Valve Material and Port/Valve Configurations | | | | | | | | | 1VS0 | | Brass and STD port/no valve |
| | | | | | | | | | 1VS1 | | Brass and STD port/STD valve |
| | | | | | | | | | 1VS2 | | Brass and STD port/LD valve |
| | | | | | | | | | 2VS0 | | Stainless steel and STD port/NO valve |
| | | | | | | | | | 2VS1 | | Stainless steel and port/STD valve |
| | | | | | | | | | 2VS2 | | Stainless steel and STD port/LD valve |
| Cable Entry | | | | | | | | | | 12 | 1/2" NPT ANSI/ASME B1.20.1 |

| PRESSURE LIMITS | | |
|-----------------|-----------------------------|-------------------------------|
| Port/Valve | One Pressure Port Connected | Both Pressure Ports Connected |
| VS0 | 10 kPa | 10 kPa |
| VS1 | 20 kPa | 15 kPa |
| VS2 | 40 kPa | 20 kPa |

USA: California Proposition 65
WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.