



PRESSURE

MULTI-RANGE DIFFERENTIAL PRESSURE TRANSMITTER

MS SERIES

DESCRIPTION

The **Series MS Magnesense® Differential Pressure Transmitter** is an extremely versatile transmitter for monitoring pressure and air velocity. Its compact package is loaded with features. The magnetic sensing technology provides exceptional long term performance and enables the **Magnesense Differential Pressure Transmitter** to be the solution for a myriad of pressure and air flow applications.



FEATURES

- *Field selectable English or Metric ranges*
- *Field upgradeable LCD display*
- *Adjustable damping of output signal (with optional display)*
- *Ability to select a square root output for use with pitot tubes and other similar flow sensors*



MS Series

APPLICATION

- *Air flow monitoring station*
- *Dirty filter monitor*
- *Building pressurization sensor*
- *Duct pressurization sensor*

SPECIFICATIONS

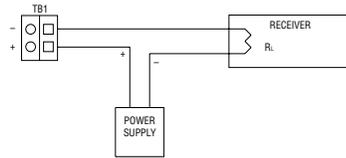
Output Signal	4-20 mA (2-wire); 0-5V, 0-10V (3-wire)	Process Connection	1/4" poly, 3/16" (5 mm) ID tubing. Maximum OD 9 mm
Power Requirements	10 to 35 VDC (2-wire); 17 to 36 VDC or isolated 21.6 to 33 VAC (3-wire)	Media Compatibility	Air and non-combustible compatible gases
Loop Resistance	Current output: 0-1250Ω max; 700Ω @ 24 VDC; Voltage output: min. load resistance 1 kΩ.	Mounting Orientation	Diaphragm in vertical position
Current Consumption	40 mA max.	Zero & Span Adjustments	Digital push button.
Accuracy	± 1% except as noted below ± 2% 0.1" (25 Pa), 1" (250 Pa) all bi-directional	Display (optional)	4 digit LCD.
Stability	±1% F.S./year	Electrical Connections	Terminal block for 16 to 26 AWG
Proof Pressure	1 psi maximum	Electrical Entry	1/2" NPS Thread. Accessory: Cable Gland for 5 to 10 mm diameter cable.
Burst Pressure	10 psi	Duct Probe	8" (20.6 cm), .55" diameter
Response Time	Field adjustable 0.5 to 15 sec. time constant. Provides a 95% response time of 1.5 to 45 seconds	Dimensions	3.34" diameter, 2.64" deep
Operating Temperature	0° to 150°F (-18° to 66°C)	Approvals	CE
Enclosure Rating	NEMA 4X (IP66)	Weight	0.5 lb (0.23 kg)
		Warranty	1 year



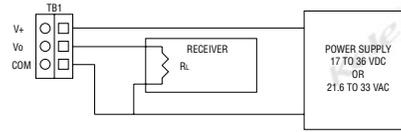
WIRING

Low Range Less Than 10"

2-Wire Operation

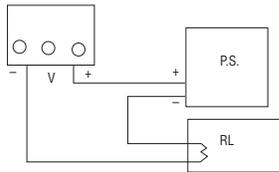


3-Wire Operation

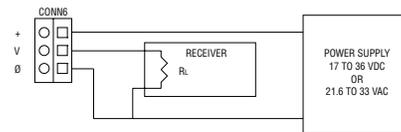


High Range Greater Than 10"

2-Wire Operation



3-Wire Operation



ORDERING INFORMATION

MODEL	DESCRIPTION
MS-021	Diff pressure xmitter +/- 0.1" 0.25" 0.5" 4-20 mA
MS-111	Diff pressure xmitter 1" 2" 5" 4-20 mA
MS-111-LCD	Diff pressure xmitter 1" 2" 5" 4-20 mA LCD
MS-112	Diff pressure xmitter 1" 2" 5" 4-20 mA DUCT
MS-121	Diff pressure xmitter 0.1" 0.25" 0.5" 4-20 mA
MS-121-LCD	Diff pressure xmitter 0.1" 0.25" 0.5" 4-20 mA LCD
MS-122	Diff pressure xmitter 0.1" 0.25" 0.5" 4-20 mA DUCT
MS-131	Diff pressure xmitter 10 IN WC 4-20 mA
MS-141	Diff pressure xmitter 15 IN WC 4-20 mA
MS-151	Diff pressure xmitter 25 IN WC 4-20 mA
MS-221	Diff pressure xmitter +/- 0.1" 0.25" 0.5" 0-10V
MS-221-LCD	Diff pressure xmitter +/- 0.1" 0.25" 0.5" 0-10V LCD
MS-311	Diff pressure xmitter 1" 2" 5" 0-10V
MS-312	Diff pressure xmitter 1" 2" 5" 0-10V DUCT
MS-321	Diff pressure xmitter 0.1" 0.25" 0.5" IN 0-10V
MS-322	Diff pressure xmitter 0.1" 0.25" 0.5" IN 0-10V DUCT
MS-331	Diff pressure xmitter 10 IN WC 0-10 V
MS-341	Diff pressure xmitter 15 IN WC 0-10 V
MS-351	Diff pressure xmitter 25 IN WC 0-10 V
MS-621	Diff pressure xmitter +/- 0.1" 0.25" 0.5" 0-5V
MS-621-LCD	Diff pressure xmitter +/- 0.1" 0.25" 0.5" 0-5V LCD
MS-711	Diff pressure xmitter 1" 2" 5" 0-5V
MS-711-LCD	Diff pressure xmitter 1" 2" 5" 0-5V LCD
MS-712	Diff pressure xmitter 1" 2" 5" 0-5V DUCT
MS-712-LCD	Diff pressure xmitter 1" 2" 5" 0-5V LCD
MS-721	Diff pressure xmitter 0.1" 0.25" 0.5" 0-5V
MS-722	Diff pressure xmitter 0.1" 0.25" 0.5" 0-5V DUCT

RELATED PRODUCTS

A-302-K	Duct static pressure tip, 1/4" barb
A-489	4 pressure tip kit
A-435	Field upgradeable LCD for MS
A-480	Plastic static pressure tip
A-481	A-481 installer kit