



Differential Pressure Transmitter, Magnesense

Monitors Pressure and Air Velocity

Models Select Chart

EXAMPLE	MS	0	2	1	AT	Series MS-021-AT Magnesense® Differential Pressure Transmitter, bidirectional unit, 4-20 mA output, low range 0.1, 0.25, 0.5" w.c. & 25, 50, 100 Pa, wall mount, with aluminum tag.
SERIES	MS					Magnesense® Differential Pressure Transmitter
OUTPUT		0				Bidirectional Unit, 4-20 mA
		1				Positive Only Unit, 4-20 mA
		2				Bidirectional Unit, 0-10 V
		3				Positive Only Unit, 0-10 V
		6				Bidirectional Unit, 0-5 V
		7				Positive Only Unit, 0-5 V
		8				Bidirectional Unit, 0-5 V Output 0-12VDC Input
		9				Positive Only Unit, 0-5V Output 0-12 VDC Input
RANGE			1			High Range 1, 2, 5" w.c. & 250, 500, 1250 Pa
			2			Low Range 0.1, 0.25, 0.5" w.c. & 25, 50, 100 Pa
			3			Piezo 10" w.c. & 2 kPa
			4			Piezo 15" w.c. & 3 kPa
			5			Piezo 25" w.c. & 5 kPa
MOUNTING				1		Wall Mount
				2		Duct Mount
				3		Din Mounting Bracket
OPTIONS					AT	Aluminum Tag
					DJE	Velocity Mode Selectable Decimal Place (English Units)
					DJM	Velocity Mode Selectable Decimal Place (Metric Units)
					DS	Dessicant Cover (not available)
					GLD	Cable Gland Accessories Pack
					LCD	Liquid Crystal Display
					NIST	NIST Calibration Certificate
					ST	Stainless Steel Tag
					WO	LCD Cover w/o LCD Display

Note: Not all model combinations are available.

Accessories

Model	Description
A-435	Field upgradeable LCD.
A-489	4" 303 SS straight static pressure tip with flange.
SCD-PS	100 to 240 VAC/VDC to 24 VDC power supply.
A-481	Installer kit, (includes 2 static pressure tips and PVC tubing).
A-302F-A	303 SS Static pressure tip with mounting flange, for 3/16" I.D. rubber or plastic tubing. 4" insertion depth, includes mounting screws
A-480	Plastic static pressure tip.

Specifications:-

Service	:	Air and non-combustible, compatible gases.
Wetted Materials	:	Consult factory.
Accuracy	:	±1% for 0.25" (50 Pa), 0.5" (100 Pa), 2" (500 Pa), 5" (1250 Pa), 10" (2 kPa), 15" (3 kPa), 25" (5 kPa) ±2% for 0.1" (25 Pa), 1" (250 Pa) and all bidirectional ranges.
Stability	:	±1% FS/year.
Temperature Limits	:	0 to 150°F (-18 to 66°C).
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 VDC, 0 to 10 VDC (3-wire).
Response Time	:	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.
Loop Resistance	:	Current Output: 0 to 1250 Ω max; Voltage Output: Min. load resistance 1 kΩ.
Current Consumption	:	40 mA max.
Display (Optional)	:	4 digit LCD.
Electrical Connections	:	4-20 mA, 2-wire: European Style Terminal Block for 16 to 26 AWG. 0-10 V, 3-wire: European Style Terminal Block 16 to 22 AWG.
Electrical Entry	:	1/2" NPS thread. Accessory: Cable Gland for 5 to 10 mm diameter cable.
Process Connections	:	3/16" (5 mm) ID tubing. Maximum OD 9 mm.
Enclosure Rating	:	NEMA 4X (IP66).
Mounting Orientation	:	Diaphragm in vertical position.

Weight	:	8.0 oz (230 g).
Agency Approvals	:	CE.