

The Series MS2 Magnesense[®] II Differential Pressure Transmitter combines the proven stable piezo technology and the versatility of our original Series MS with additional features to reduce installation time and simplify ordering. Like the original Series MS, the second generation transmitter can be used as a linear pressure output or a linear velocity output with the square root extraction done in the transmitter. Additional parameters have been included to expand the square root capability to include flow measurements.

FEATURES/BENEFITS

PRESSURE

- Field selectable ranges and output signal reduce inventory and the chances of ordering an incorrect part
- BACnet or Modbus serial communications reduce wiring cost by daisy-chaining the transmitters
- Our integral field-upgradeable display or plug-in remote display tool save upfront material cost and allow for local viewing of measurements

APPLICATIONS

Differential Pressure Transmitters

- Filter monitoring in air handler units
- · Building pressure in pharmaceutical-semi-conductor clean rooms
- Duct static pressure in commercial buildings
- Air velocity/flow in VAV systems

SPECIFICATIONS

Supported Baud Rates: 9600, 19200, Output Signals: 4 to 20 mA (2-wire), 0 38400, 57600, 76800, 115200. to 5 VDC, 0 to 10 VDC (3-wire). Data Size: 8. Response Time: Adjustable: 0.5 to Parity: None. 15 sec. time constant. Provides a 95% Stop Bits: 1. response time of 1.5 to 45 seconds. Service: Air and non-combustible. Zero & Span Adjustments: Digital push compatible gases. buttons Loop Resistance: Current output: 0 to Wetted Materials: Consult factory. Typical Accuracy: ±1% FS for 0.15 in 1250 Ω max; Voltage output: Min. load w.c. (40 Pa), 0.25 in w.c. (50 Pa), 0.5 resistance 1 kΩ. in w.c. (125 Pa), 2 in w.c. (500 Pa), 3 in Current Consumption: 40 mA max. w.c. (750 Pa), 5 in w.c. (1250 Pa), 10 in Display (Optional): 5 digit LCD. w.c. (2 kPa), 15 in w.c. (3 kPa), 25 in w.c. Electrical Connections: 3-wire (5 kPa), 28 in w.c. (6.975 kPa); ±2% FS removable European style terminal block for 0.1 in w.c. (25 Pa), 1 in w.c. (250 Pa), for 16 to 22 AWG. and all bi-directional ranges. Electrical Entry: 1/2" NPS thread. Stability: ±1% / year FSO. Process Connection: 3/16" ID tubing (5 Temperature Limits: 0 to 150°F (-18 to mm ID); Max. OD 9 mm. Enclosure Rating: IP66. 66°C). Pressure Limits: 1 psi max., operation; Mounting Orientation: Not position 10 psi burst. sensitive Weight: 8.0 oz (230 g). Power Requirements: 10 to 35 VDC Agency Approvals: BTL, CE. (2-wire), 17 to 36 VDC or isolated 21.6 to 33 VAC (3-wire).

MODEL CHART					
Model	in w.c.	Ра	mm w.c.	kPa	
MS2-W101	0.10, 0.15, 0.25, 0.50	25, 40, 50, 125	2.5, 4, 6, 10	0.025, 0.04, 0.05, 0.125	
MS2-W111	±0.10, ±0.15, ±0.25, ±0.50	±25, ±40, ±50, ±125	±2.5, ±4, ±6, ±10	±0.025, ±0.04, ±0.05, ±0.125	
MS2-W102	1, 2, 3, 5	250, 500, 750, 1250	25, 50, 75, 125	0.25, 0.5, 0.75, 1.25	
MS2-W112	±1, ±2, ±3, ±5	±250, ±500, ±750, ±1250	25, 50, 75, 125	0.25, 0.5, 0.75, 1.25	
MS2-W103	10, 15, 25, 28	2500, 3500, 5000, 6975	250, 350, 500, 697.5	2.5, 3.5, 5.0, 6.975	
	±10, ±15, ±25, ±28	±2500, ±3500, ±5000, ±6975	±250, ±350, ±500, ±697.5	±2.5, ±3.5, ±5.0, ±6.975	
Note: For duct mount static probe change W to D. Example: MS2-D101					

For DIN rail mounting change W to N. **Example:** MS2-N101

OPTIONS				
To order add suffix:	Description			
-LCD	Units with display			
Example: MS2-W101-LCD				
-BC	BACnet Communications			
Example: MS2-W101-BC				
-MC	Modbus [®] Communications			
Example: MS2-W101-MC				
-NIST	NIST traceable calibration certificate			
Example: MS2-W101-NIST				
-FC	Factory calibration certificate			
Example: MS2-W101-FC				

ACCESSORIES				
Model	Description			
A-151	Cable gland for 5 to 10 mm diameter cable			
A-MS2-LCD	Field upgradeable display			
A-435-A	Remote display tool			
A-480	Plastic static pressure tip			
A-481	Installer kit; includes 2 plastic static pressure tips and 7 ft			
	(2.1 m) of PVC tubing			
A-489	4" 303 SS straight static pressure tip with flange			
A-302F-A	4" 303 SS static pressure tip with mounting flange; for			
	3/16" ID rubber or plastic tubing			
SCD-PS	100 to 240 VAC/VDC to 24 VDC power supply			

Modbus[®] is a registered trademark of Schneider Automation, Inc. Process Tubing Options: See page 503 (Gage Tubing Accessories)

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