

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

- 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

- · 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

Stop Bits: 1.	response time of 1.5
Service: Air and non-combustible,	Zero & Span Adjusti
compatible gases.	buttons.
Wetted Materials: Consult factory.	Loop Resistance: C
Typical Accuracy: ±1% FS for 0.15 in	1250 Ω max; Voltage
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
w.c. (750 Pa), 5 in w.c. (1250 Pa), 10 in	Display (Optional): 5
w.c. (2 kPa), 15 in w.c. (3 kPa), 25 in w.c.	Electrical Connection
(5 kPa), 28 in w.c. (6.975 kPa); ±2% FS	removable European
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
Stability: ±1% / year FSO.	Process Connection
Temperature Limits: 0 to 150°F (-18 to	mm ID); Max. OD 9 n
66°C).	Enclosure Rating: IF
Pressure Limits: 1 psi max., operation;	Mounting Orientatio
10 psi burst.	vertical position.
Power Requirements: 10 to 35 VDC	Weight: 8.0 oz (230 g

(2-wire), 17 to 36 VDC or isolated 21.6 to Agency Approvals: BTL, CE. 33 VAC (3-wire)

Supported Baud Rates: 9600, 19200,

38400, 57600, 76800, 115200.

Data Size: 8.

Parity: None.

Response Time: Adjustable: 0.5 to 15 sec. time constant. Provides a 95% 5 to 45 seconds. tments: Digital push Current output: 0 to e output: Min. load i**on:** 40 mA max. 5 digit LCD. ons: 3-wire style terminal block 2" NPS thread. n: 3/16" ID tubing (5 mm. P66. on: Diaphragm in

Output Signals: 4 to 20 mA (2-wire), 0

to 5 VDC, 0 to 10 VDC (3-wire).

MODEL CH	ODEL 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	
	±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	BC BACnet Communications			
Example: MS2-W101-BC				
-MC	Modbus <sup>®</sup> Communications			
Example: MS2-W101-MC				
-NIST	NIST traceable calibration certificate			
Example: MS2-W101-NIST				
-FC Factory calibration certificate				
Example: MS2-W101-FC				

ACCESSORIE	RIES		
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		

PRESSURE