The Series MS2 Magnesense® II Differential Pressure Transmitter combines the proven stable Hall Effect sensing technology of our original Series MS with additional features to reduce installation time and simplify ordering. In this second generation transmitter, we have added additional field selectable pressure ranges so that each model can have four selectable ranges along with four additional bidirectional ranges. When using the pluggable integral display or the portable remote display tool, both Metric and English engineering units can be selected via on board dip switches. Dual current and voltage outputs allow users to simultaneously take either a current or voltage output to their building controller and have a local test circuit for verification of the output reading. The transceiver may be rated at one unit load. Fractional loads are also acceptable. The MS2 accounts as an eighth of a load on the M STP network.

### OPTIONS

Add -LCD to end of model numbers for units with display
Example: MS2-W101-LCD  
Add -BC to end of model numbers for BACnet Communications
Example: MS2-W101-BC  
Add -MC to end of model numbers for Modbus® Communications
Example: MS2-W101-MC  
Add -NIST to end of model numbers for NIST Traceable Certificate
Example: MS2-W101-NIST  
Add -FC to end of model numbers for Factory Calibration Certificate
Example: MS2-W101-FC  
Change W to D for Duct Mount Static Probe
Example: MS2-D101  
Change W to N for DIN Rail Mounting
Example: MS2-N101

*Models can be changed in the field to have zero centered ranges at reduced accuracy.

### SPECIFICATIONS

**Supported Baud Rates:** 9600, 19200, 38400, 57600, 84000, 115200.

**Data Size:** 8.

**Parity:** None.

**Stop Bits:** 1.

**Service:** Air and non-combustible, compatible gases.

**Wetted Materials:** Air and non-combustible, compatible gases.

**Typical Accuracy:** ±1% FS 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% FS for 0.1˝ (25 Pa), 1˝ (250 Pa), and all bi-directional ranges.

**Stability:** ±1% / year FSO.

**Temperature Limits:** 0 to 150°F (-18 to 66°C).

**Pressure Limits:** 1 psi max., operation; 10 psi burst.

**Response Time:** Adjustable: 0.5 to 15 sec. time constant. Provides a 95% response time of 1.5 to 45 seconds.

**Power Requirements:** 1 psi max., operation; 10 psi burst.

**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 buttons.

**Loop Resistance:** Current Output: 0 to 1250 Ω max; Voltage Output: Min. load resistance 1 kΩ.

**Current Consumption:** 40 mA max.

**Display (Optional):** 5 digit LCD.

**Electrical Connections:** 3-wire removable European style terminal block for 16 to 22 AWG.

**Electrical Entry:** 1/2˝ NPS thread.

**Process Connection:** 3/16” ID tubing (5 mm ID); Max. OD 9 mm.

**Enclosure Rating:** IP66.

**Mounting Orientation:** Diaphragm in vertical position.

**Weight:** 8.0 oz (230 g).

**Agency Approvals:** BTL, CE.