



II Differential Pressure Transmitter, Magnesense

Monitors Pressure, Air Velocity and Air Flow, BACnet / Modbus
Communications

Models Select Chart

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|-----------------------|-----|-------------|---|----|--|--|
| EXAMPLE | MS2 | D | 1 | 01 | AT | Series MS2-D101-AT Magnesense® Differential Pressure Transmitter, duct mount probe, range 1 + 0.1, 0.15, 0.25, 0.5" w.c.; + 25, 40, 50, 125 Pa; + 2.5, 4, 6, 10 mm w.c., with aluminum tag |
| SERIES | MS2 | | | | | MS2 Magnesense® Differential Pressure Transmitter |
| MOUNTING | | D N W | | | | Duct Mount Probe DIN Mounting Bracket Wall Mount |
| ACCURACY | | | 1 | | | Standard Models 1.0% Accuracy |
| PRESSURE RANGE | | | | 01 | | Range 1 + 0.1, 0.15, 0.25, 0.5" w.c.; + 25, 40, 50, 125 Pa; + 2.5, 4, 6, 10 mm w.c. |
| | | | | 02 | | Range 2 + 1.0, 2.0, 3.0, 5.0" w.c.; + 250, 500, 750, 1250 Pa; + 25, 50, 75, 125 mm w.c. |
| | | | | 03 | | Range 3 +/- 10, 15, 25, 28" w.c.; +/- 2500, 3500, 5000, 6975 Pa; +/- 250, 350, 500, 700 mm w.c. |
| | | | | 11 | | Range 11 +/- 0.1, 0.15, 0.25, 0.5" w.c.; +/- 25, 40, 50, 125 Pa; +/- 2.5, 4, 6, 10 mm w.c. |
| OPTIONS | | | | | AT BC COC FC GLD LCD MC NIST ST STA | Aluminum Tag Bacnet Communication Certificate of Calibration Factory Calibration Certificate Cable Gland Accessory LCD Modbus Communication NIST Traceable Certificate of Calibration SST Tag Static Tips |

Accessories

| Model | Description |
|-----------|--|
| A-435-A | Remote display tool for the MS2 Series. |
| A-481 | Installer kit, (includes 2 static pressure tips and PVC tubing). |
| A-489 | 4" 303 SS straight static pressure tip with flange. |
| SCD-PS | 100 to 240 VAC/VDC to 24 VDC power supply. |
| A-151 | Cable gland for 5 to 10 mm diameter cable. |
| A-MS2-LCD | Replacement display for the MS2 Series. |
| 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:-

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| Supported Baud Rates | : | 9600, 19200, 38400, 57600, 76800, 115200. |
| Data Size | : | 8. |
| Parity | : | None. |
| Stop Bits | : | 1. |
| Service | : | Air and non-combustible, compatible gases. |
| Wetted Materials | : | Consult factory. |
| Typical Accuracy | : | ±1% FS for 0.15 in w.c. (40 Pa), 0.25 in w.c. (50 Pa), 0.5 in w.c. (125 Pa), 2 in w.c. (500 Pa), 3 in w.c. (750 Pa), 5 in w.c. (1250 Pa), 10 in w.c. (2 kPa), 15 in w.c. (3 kPa), 25 in w.c. (5 kPa), 28 in w.c. (6.975 kPa); ±2% FS for 0.1 in w.c. (25 Pa), 1 in w.c. (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. |
| 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 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. |

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|----------------------|---|--|
| Process Connection | : | 3/16" ID tubing (5 mm ID); Max. OD 9 mm. |
| Enclosure Rating | : | IP66. |
| Mounting Orientation | : | Not sensitive to position. |
| Weight | : | 8.0 oz (230 g). |
| Agency Approvals | : | BTL, CE. |