

SERIES DM-2000 | DIFFERENTIAL PRESSURE TRANSMITTER

FEATURES/BENEFITS

- Zero and span controls provide easy calibration checks and shorter installation time to get device running and monitoring
- Tamper-proof button configuration prevents accidental setting changes
- Quick response to pressure changes means no delay in signaling and alerting to critical situations
- Easy to read LCD display provides immediate local alerts allowing corrective action to be taken quicker to eliminate the problem from becoming widespread
- Same size as Magnehelic® Gage simplifies field upgrade to digital pressure gage by reducing installation steps
- 4-20 mA output allows for integration into Building Automation Systems



APPLICATIONS

- Differential pressure across filters
- Fan control
- Static pressures in ducts or buildings

DESCRIPTION

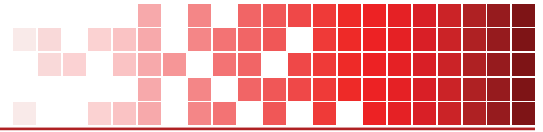
The Dwyer **SERIES DM-2000** Differential Pressure Transmitter senses the pressure of air and compatible gases and sends a standard 4-20 mA output signal. The DM-2000 housing is specifically designed to mount in the same diameter cutout as a standard Magnehelic® Gage. A wide range of models are available factory calibrated to specific ranges. Pressure connections are inherent to the glass filled plastic molded housing making installation quick and easy. Digital push-button zero and span simplify calibration over typical turn-potentiometers. An optional 3.5 digit LCD shows process and engineering units. A single push button allows field selection of 4 to 6 engineering units depending on range.



SPECIFICATIONS

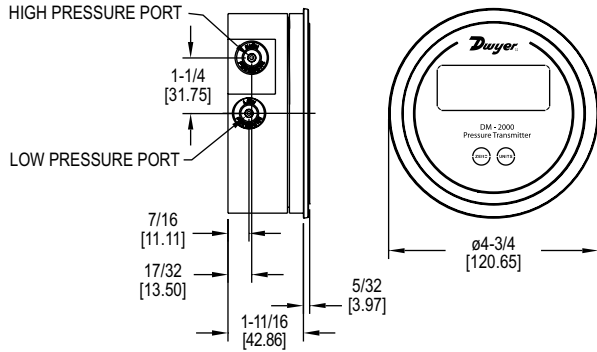
| | |
|----------------------------------|--|
| Service | Air and non-combustible, compatible gases. |
| Wetted Materials | Consult factory. |
| Accuracy | ±1% FS at 70°F. |
| Stability | ±1% FS/yr. |
| Temperature Limits | 20 to 120°F (-6.67 to 48.9°C). |
| Pressure Limits | 10 psig (0.69 bar). |
| Thermal Effect | ±0.055% FS/°F (0.099% FS/°C). |
| Power Requirements | 10 to 35 VDC (2 wire). |
| Output Signal | 4 to 20 mA. |
| Zero and Span Adjustments | Digital push-button zero and span. |
| Loop Resistance | DC: 0 to 1250 Ω maximum. |
| Current Consumption | DC: 38 mA maximum. |
| Electrical Connections | Screw-type terminal block. |
| Display | 3.5 digit LCD, 0.7" height. |
| Process Connections | 1/8" I.D. tubing. |
| Mounting Orientation | Vertical. |
| Weight | 4.8 oz (136 g). |



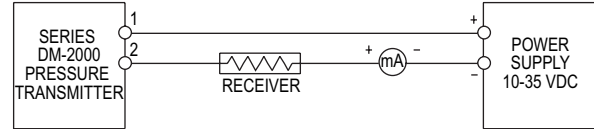


DIMENSIONS

WIRING DIAGRAM



2-Wire Connections



HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

| | | |
|---|---|---|
| <p>SERIES</p> <p>DM - Differential pressure transmitter</p> <p>GAGE BACKGROUND COLOR</p> <p>20 - Black</p> <p>21 - Light grey</p> | <p>DM</p> <p>-X</p> <p>-X</p> <p>-X</p> | <p>OPTIONS</p> <p>AT - Aluminum tag</p> <p>LCD - LCD display</p> <p>FC - Factory calibration certificate</p> <p>NIST - NIST traceable calibration certificate</p> <p>RANGE</p> <p>01 - 0 to 0.1 in w.c.</p> <p>02 - 0 to 0.25 in w.c.</p> <p>03 - 0 to 0.5 in w.c.</p> <p>04 - 0 to 1 in w.c.</p> <p>05 - 0 to 2 in w.c.</p> <p>06 - 0 to 3 in w.c.</p> <p>07 - 0 to 5 in w.c.</p> <p>12 - 0.25 to 0 to 0.25 in w.c.</p> <p>13 - 0.5 to 0 to 0.5 in w.c.</p> <p>19 - 0.05 to 0 to 0.20 in w.c.</p> |
|---|---|---|

ACCESSORIES

| Model | Description |
|-----------------|---|
| A-300 | Flat aluminum bracket for flush mounting Magnehelic® gage. 6.8" x 6.0" x .1", .35 lb |
| A-464 | Flush mount kit for Magnehelic® gage |
| A-320-A | Enclosure for Series 2000 Magnehelic® Gages, DM-2000 Differential Pressure Transmitter, 4-9/16" (115.89 mm) |
| A-489 | 4" 303 SS straight static pressure tip with flange |
| SCD-PS | 100 to 240 VAC/VDC to 24 VDC power supply |
| A-299 | Mounting bracket flush mount Magnehelic® gage in bracket. Bracket is then surface mounted. Steel with gray hammertone epoxy finish. 6.3" x 7.7" x 4.0", 1.30 lb |
| A-302F-A | Mounting bracket flush mount Magnehelic® gage in bracket. Bracket is then surface mounted. Steel with gray hammertone epoxy finish. 6.3" x 7.7" x 4.0", 1.30 lb |