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

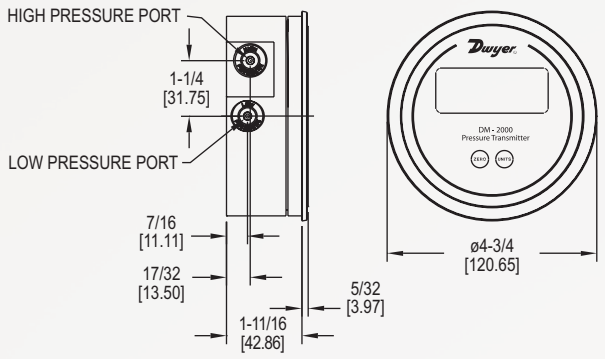
The Dwyer **Series DM-2000 Differential Pressure Transmitter** senses the pressure of air and compatible gases and sends a standard 4-20 mA output signal. The DM-2000 housing is specifically designed to mount in the same diameter cutout as a standard Magnehelic® gage. A wide range of models are available 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

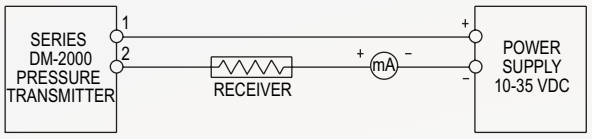
Service	Air and non-combustible, compatible gases.
Wetted Materials	Consult factory.
Accuracy	±1% FS, ±30 Pa model ±4% FS at 70°F.
Stability	±1% FS/yr.
Temperature Limits	20 to 120°F (-6.67 to 48.9°C).
Pressure Limits	10 psig (0.69 bar).
Thermal Effect	±0.055% FS/°F (0.099% FS/°C), ±30 Pa model ±0.13% FS/°F (0.234% FS/°C).
Power Requirements	10-35 VDC (2 wire).
Output Signal	4-20 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).

PVN ENGINEERING CO.,LTD | Hotline : 095-365-8531 | Email : marketing@pvn.co.th

DIMENSIONS



WIRING DIAGRAM



2-wire connections

HOW TO ORDER

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

DM -X -X -X

SERIES
DM: Differential pressure transmitter

GAGE BACKGROUND COLOR
20: Black
21: Light grey

OPTIONS
AT: Aluminum tag
LCD: LCD display
FC: Factory calibration certificate
NIST: NIST traceable calibration certificate

RANGE
01: 0 to 0.1 in w.c.
02: 0 to 0.25 in w.c.
03: 0 to 0.5 in w.c.
04: 0 to 1 in w.c.
05: 0 to 2 in w.c.
06: 0 to 3 in w.c.
07: 0 to 5 in w.c.
12: 0.25 to 0 to 0.25 in w.c.
13: 0.5 to 0 to 0.5 in w.c.
19: 0.05 to 0 to 0.20 in w.c.

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	100-240 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