



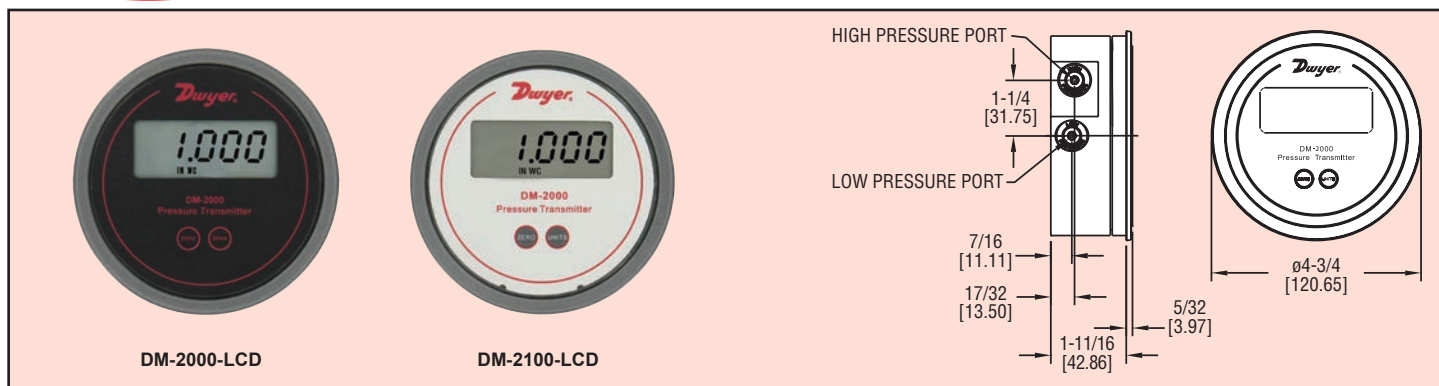
Series
DM-2000

Differential Pressure Transmitter

Same Size as Standard Magnehelic® Differential Pressure Gage

PRESSURE

Differential Pressure Transmitters



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 enclosure 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 enclosure making installation quick and easy. Digital push-button zero simplifies 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.

APPLICATIONS

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

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% F.S./°C).

Power Requirements: 10-35 VDC (2 wire).

Output Signal: 4 to 20 mA.

Zero and Span Adjustments: Digital push-button zero and span.

Loop Resistance: DC: 0-1250 Ω maximum.

Current Consumption: DC: 38 mA max.

Electrical Connections: Screw-type terminal block.

Display: 3.5 digit LCD, 0.7" H.

Process Connections: 1/8" ID tubing.

Mounting Orientation: Vertical.

Weight: 4.8 oz (136 g).

Model	Range	Pa	mm wc	mBar	kPa	psi
DM-2001-LCD	.100 in w.c.	24.9	2.54	.249		
DM-2002-LCD	.250 in w.c.	62.2	6.35	.622		
DM-2003-LCD	.500 in w.c.	124.3	12.70	1.243	.124	
DM-2004-LCD	1.000 in w.c.	249	25.4	2.49	.249	
DM-2005-LCD	2.00 in w.c.	497	50.8	4.97	.497	.108
DM-2006-LCD	3.00 in w.c.	746	76.2	7.46	.746	.180
DM-2007-LCD	5.00 in w.c.	1243	127.0	12.43	1.243	
DM-2012-LCD	.250-0-.250 in w.c.	62.2-0-62.2	3.65-0-6.35	.622-0-.622		
DM-2013-LCD	.500-0-.500 in w.c.	124.3-0-124.3	12.70-0-12.70	1.243-0-1.243		
DM-2019-LCD	-0.05-0-.200 in w.c.	49.8	5.08	.498		

OPTIONS

For NIST traceable calibration certificate, add suffix -NIST to model numbers.

Example: DM-2002-LCD-NIST

For factory calibration certificate, add suffix -FC to model numbers.

Example: DM-2002-LCD-FC

For white overlay change -20 to -21.

Example: DM-2102-LCD

ACCESSORIES

A-299, Surface Mounting Bracket

A-300, Flat Flush Mounting Bracket

A-302F-A, 303 SS Static Pressure Tip with mounting flange. For 3/16" ID rubber or plastic tubing. 4" insertion depth. Includes mounting screws

A-320-A, Instrument Enclosure

A-489, 4" Straight Static Pressure Tip with Flange

SCD-PS, 100 to 240 VAC/VDC to 24 VDC Power Supply

Process Tubing Options: See page 547 (Gage Tubing Accessories)

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