



# DIFFERENTIAL PRESSURE TRANSMITTERS

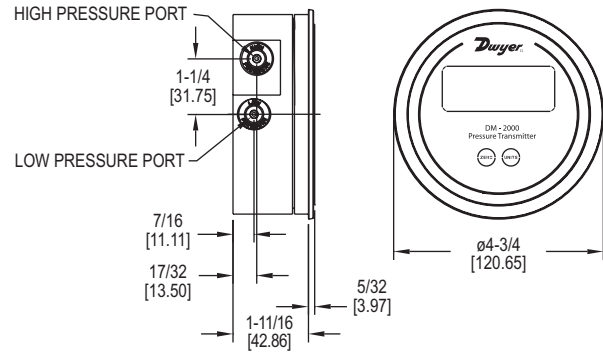
Same Size as Standard Magnehelic® Differential Pressure Gage



**DM-2000-LCD**



**DM-2100-LCD**



The Dwyer **Series DM-2000 Differential Pressure Transmitters** sense 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.

## FEATURES/BENEFITS

- Zero and span controls provide easy calibration checks and shorter installation time to get device running and monitoring
- 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® simplifies field upgrade to digital pressure gage by reducing install steps
- Tamper proof button configuration to prevent accidental changes to the settings

## APPLICATIONS

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

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

**Note:** For white overlay change -20 to -21. **Example:** DM-2102-LCD

## ACCESSORIES

| Model    | Description                                                                                                                          |
|----------|--------------------------------------------------------------------------------------------------------------------------------------|
| 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   | 100-240 VAC/VDC to 24 VDC power supply                                                                                               |

## OPTIONS

| To order add suffix:             | Description                            |
|----------------------------------|----------------------------------------|
| -NIST                            | NIST traceable calibration certificate |
| <b>Example:</b> DM-2002-LCD-NIST |                                        |
| -FC                              | Factory calibration certificate        |
| <b>Example:</b> DM-2002-LCD-FC   |                                        |

## 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 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).

