Series 677B Differential Pressure Transmitters are designed to measure pressures as low as 0.1 in w.c. with ±0.4% accuracy. Use Series 677B for building energy management systems, environmental pollution control, oven pressurization, lab and fume hood control, HVAC and VAV applications. The transmitter features 15 psi overpressure, reverse polarity protection and EMI/RFI protection. Internal regulation permits use with unregulated DC power supplies. The NEMA 4 housing allows for versatile mounting locations and integral mounting tabs simplify installation.

For NIST traceable calibration certificate, add suffix -NIST to model numbers. Example: DM-2002-LCD-NIST.

See page 587 for process tubing options.

**APPLICATION**
Differential pressure across filters

**OPTIONS**
Digital push-button zero simplifies calibration over typical turn-potentiometers. An optional 3.5 digit LCD, 0.7˝H.

**SPECIFICATIONS**
- Service: Air and non-conductive, non-corrosive gases.
- Wetted Materials: Consult factory.
- Accuracy: ±1% FS at 70°F. ±1% FS/yr.
- Temperature Limits: 20 to 120°F (6.7 to 48.9°C).
- Pressure Limits: 10 psig (0.69 bar).
- Thermal Effect: ±0.055% FS/°F (0.099% FS/°C).
- Power Requirements: 10-35 VDC (2 wire).
- Zero and Span Adjustments: Digital push-button zero and span.
- Loop Resistance: DC: 0-1250 Ω maximum.
- Current Consumption: 1/8˝ ID tubing.
- Mounting Orientation: Vertical.
- Weight: 4 oz (113 g).

**ACCESSORIES**
- A-326F-A, 303 SS Static Pressure Tip with mounting flange. For 3/16˝ ID rubber or plastic tubing. 4˝ insertion depth. Includes mounting screws.
- A-489, 4˝ Straight Static Pressure Tip with Flange.
- See page 587 for process tubing options.

**Series 677B Differential Pressure Transmitter**
NEMA 4 Enclosure with Integral Mounting Bracket

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**Series DM-2000 Differential Pressure Transmitter**
Same Size as Standard Magnehelic® Differential Pressure Gage

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 simple push button allows field selection of 4 to 6 engineering units depending on range.

**APPLICATION**
Differential pressure across filters

**OPTIONS**
Differential pressure across filters

**SPECIFICATIONS**
- Service: Air and non-combustible, compatible gases.
- Wetted Materials: Consult factory.
- Accuracy: ±1% FS at 70°F. ±1% FS/yr.
- Temperature Limits: 20 to 120°F (6.7 to 48.9°C).
- Pressure Limits: 10 psig (0.69 bar).
- Thermal Effect: ±0.055% FS/°F (0.099% FS/°C).
- Power Requirements: 10-35 VDC (2 wire).
- Zero and Span Adjustments: Digital push-button zero and span.
- Loop Resistance: DC: 0-1250 Ω maximum.
- Current Consumption: 1/8˝ ID tubing.
- Mounting Orientation: Vertical.
- Weight: 4 oz (113 g).

**ACCESSORIES**
- A-299, Surface Mounting Bracket
- A-306, Flat Flush Mounting Bracket
- A-326F-A, 303 SS Static Pressure Tip with mounting flange. For 3/16˝ ID rubber or plastic tubing. 4˝ insertion depth. Includes mounting screws.
- A-489, 4˝ Straight Static Pressure Tip with Flange.
- SCD-PS, 100 to 240 VAC/VDC to 24 VDC Power Supply

See page 587 for process tubing options.

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**Series 677B**

**Series DM-2000**

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**For NIST traceable calibration certificate, add suffix -NIST to model numbers. Example: DM-2002-LCD-NIST.**