Series 677B Differential Pressure Transmitters are designed to measure pressures as low as 0.1 in. wc 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 paid 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.

### SPECIFICATIONS

**Service:** Air and non-conductive, non-corrosive gases.  
**Wetted Materials:** 302 SS, glass, nickel, silicone rubber and brass.  
**Accuracy:** ±0.4% FS* at room temperature.  
*RSS includes non-linearity, hysteresis and non-repeatability.  
**Stability:** ±1% FS/yr.  
**Temperature Limits:** Operating and Compensated: 0 to 185°F (-18 to 85°C);  
Storage: -65 to 220°F (-54 to 105°C).  
**Pressure Limit:** 15 psi (100 kPa).  
**Thermal Effects:** (Includes zero and span) <0.028% FS/°F, 0 to 185°F (-18 to 85°C).  
**Power Requirement:** 16 to 32 VDC.  
**Output:** 4 to 20 mA DC, 2-wire.  
**Zero and Span Adjustments:** Internally accessible potentiometers, noninteractive.  
**Response Time:** Approximately 10 ms.  
**Max. Loop Resistance:** DC: 0 to 800 Ω.  
**Process Connection:** 3/16” OD barbed brass pressure fitting.  
**Enclosure Rating:** NEMA 4 (IP65).  
**Weight:** 11.5 oz (330 g).  
**Agency Approval:** CE.

**APPLICATION:**  
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 ranging on demand.

**opcIONS:**  
Differential pressure across filters.

### Model Range | Price  
|----------------|--------  
| DM-2001-LCD | 0.1 in wc | 24.9 | 2.54 | 249 | | $99.95  
| DM-2002-LCD | 0.5 in wc | 62.2 | 6.35 | 622 | | $99.95  
| DM-2003-LCD | 1.0 in wc | 124.3 | 12.70 | 1243 | | $99.95  
| DM-2004-LCD | 1.5 in wc | 249 | 25.4 | 249 | | $99.95  
| DM-2005-LCD | 2.0 in wc | 497 | 50.8 | 497 | | $99.95  
| DM-2006-LCD | 3.0 in wc | 746 | 76.2 | 746 | | $99.95  
| DM-2007-LCD | 4.0 in wc | 1243 | 127.0 | 1243 | | $99.95  
| DM-2012-LCD | 5.0 in wc | 249 | 25.4 | 249 | | $99.95  
| DM-2013-LCD | 6.0 in wc | 1243 | 127.0 | 1243 | | $99.95  
| DM-2014-LCD | 8.0 in wc | 498 | 5.08 | 498 | | $99.95

For NIST traceable calibration certificate, add suffix -NIST to model numbers.  
Example: DM-2002-LCD-NIST... $135.00  
* Items are net priced and are not subject to any discount.

### ACCESSORIES

**A-299, Surface Mounting Bracket** ................. $31.00  
**A-300, Flat Flush Mounting Bracket** ............. 26.75  
**A-320F-A, 303 SS Static Pressure Tip with Flange**  
For 3/16” ID rubber or plastic tubing. 4” insertion depth.  
Includes mounting screws.  
**A-320-A, Instrument Enclosure** ................. 165.00  
**A-489, 4” Straight Static Pressure Tip with Flange** ................. 6.67  
**SCD-PS, 100 to 240 VAC/DC to 24 VDC Power Supply** ................. 30.00  
* Items are subject to Schedule B discounts.

See page 587 for process tubing options.