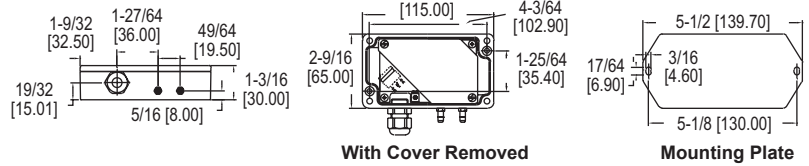


DIFFERENTIAL PRESSURE TRANSMITTERS

NEMA 4 Enclosure with Integral Mounting Bracket



SERIES 677B Differential Pressure Transmitters are designed to measure pressures as low as 0.1 in w.c. with $\pm 0.4\%$ 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 psid 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.

FEATURES/BENEFITS

- NEMA 4 housing enables a range of use outdoor or indoor where water is present
- High accuracy at low pressure ranges provides exceptional measurement for insuring tight-control and minimizing costly out of specification conditions
- Use with unregulated DC power permits easy access to electrical supply reducing costly power conditioning and wiring

APPLICATIONS

- Building energy management
- Environmental pollution control
- Lab and fume hood control
- Variable air volume

MODEL CHART			
Model	Range (in w.c.)	Model	Range (in w.c.)
677B-01	0 to 0.1	677B-08	0 to 25
677B-02	0 to 0.25	677B-11	0 to ± 0.05
677B-03	0 to 0.5	677B-12	0 to ± 0.1
677B-04	0 to 1	677B-13	0 to ± 0.25
677B-05	0 to 2.5	677B-14	0 to ± 0.5
677B-06	0 to 5	677B-15	0 to ± 1
677B-07	0 to 10		

SPECIFICATIONS

Service: Air and non-conductive, non-corrosive gases.
Wetted Materials: 302 SS, glass, nickel, silicone rubber and brass.
Accuracy: $\pm 0.4\%$ FS* at room temperature.
Stability: $\pm 1\%$ 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, non-interactive.
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 Approvals: CE.

*RSS (Root Sum Square) includes non-linearity, hysteresis and non-repeatability.

ACCESSORIES

Model	Description
A-489	4" straight static pressure tip with flange
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

OPTIONS

Use order code:	Description
NISTCAL-PT1	NIST traceable calibration certificate

USA: California Proposition 65

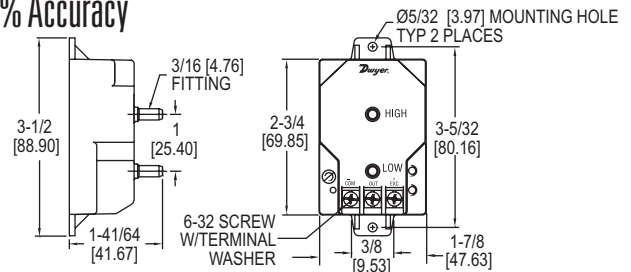
⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Process Tubing Options: See page 499 (Gage Tubing Accessories)

SERIES 668

COMPACT DIFFERENTIAL PRESSURE TRANSMITTER

Ranges from 0 to 0.25 in w.c., Overpressure Protection to 10 psig, $\pm 1\%$ Accuracy



Our low cost **SERIES 668** Differential Pressure Transmitter is capable of measuring low pressures with a $\pm 1\%$ accuracy - ideally suited for proper building pressurization and air flow control. Transmitters can withstand up to 10 psig overpressure with no damage to the unit. Variable capacitance sensor design provides excellent sensitivity and long-term stability. Compact, lightweight design makes installation simple and easy. Units also feature reverse-polarity protection.

FEATURES/BENEFITS

- Good accuracy at low pressure ranges provides exceptional value for ensuring control and minimizing costly out of specification conditions
- High overpressure rating eliminates possible damage to unit reducing unnecessary service time

APPLICATIONS

- Variable air volume systems
- Building management
- HVAC

MODEL CHART			
Model	Range	Bi-Directional Model	Range
668-1	0 to 0.25 in w.c.	668-10	0 to ± 0.1 in w.c.
668-2	0 to 0.5 in w.c.	668-11	0 to ± 0.25 in w.c.
668-3	0 to 1 in w.c.	668-14	0 to ± 2.5 in w.c.
668-4	0 to 2.5 in w.c.	668-17	0 to ± 25 in w.c.
668-5	0 to 5.0 in w.c.		
668-6	0 to 10 in w.c.		
668-7	0 to 25 in w.c.		
668-8	0 to 50 in w.c.		
668-9	0 to 100 in w.c.		

Note: To order unit with conduit cover, add C to model number.
Example: 668C-1. Consult factory for additional information.

SPECIFICATIONS

Service: Air and non-conductive gases.
Accuracy: $\pm 1\%$ of full-scale (RSS) (includes non-linearity, hysteresis, and non-repeatability).
Temperature Limits: Operating: 0 to 150°F (-18 to 65°C); Storage: -40 to 185°F (-40 to 85°C).
Pressure Limits: 10 psig (0.69 bar).
Compensated Temperature Range: 0 to 150°F (-18 to 65°C).
Thermal Effects: 0.033% FS/°F (0.018% FS/°C).
Supply Voltage: 12 to 30 VDC.
Output: 4 to 20 mA, 2-wire.
Zero and Span Adjust: ± 1 mA, non-interactive.
Response Time: < 60 ms.
Loop Resistance: 0 to 800 Ω .
Electrical Connection: Terminal strip.
Pressure Connection: 3/16" OD fitting for 1/4" ID tubing.
Housing: Fire retardant glass filled polyester.
Weight: 3 oz (85 g).
Agency Approvals: CE.

ACCESSORIES

Model	Description
A-489	4" straight static pressure tip with flange
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

OPTIONS

Use order code:	Description
NISTCAL-PT1	NIST traceable calibration certificate

Process Tubing Options: See page 499 (Gage Tubing Accessories)