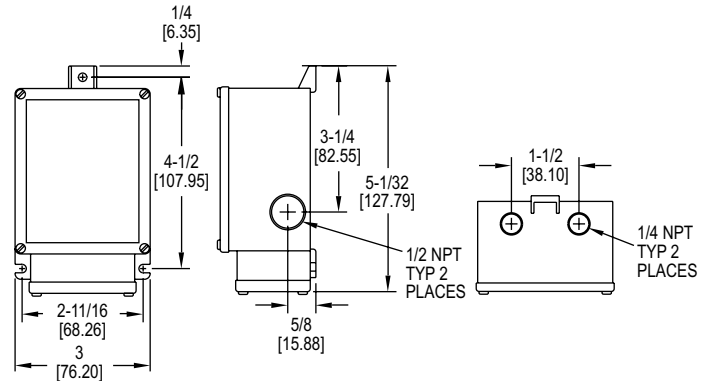


INTRINSICALLY SAFE DIFFERENTIAL PRESSURE TRANSMITTER

Ranges Down to 0.1 in w.c., FM Approved, NEMA 4X

CALIBRATION SERVICES AVAILABLE



The Dwyer® Series 608 Intrinsic Safe Differential Pressure Transmitter converts positive, negative (vacuum), or differential pressures of clean, dry air or other non-conductive, non-corrosive gases into a standard 2-wire, 4-20 mA output signal. The use of an ultra-thin silicon diaphragm enables precision measurement of differential pressures as low as 0.1 in w.c. while withstanding high static working pressures up to 100 psig (6.89 bar). The Series 608 transmitters are FM approved intrinsically safe for use in the specified hazardous locations when used with an approved intrinsic safety barrier. The rugged NEMA 4X (IP65), stainless steel housing makes this transmitter ideal for use in industrial and process plant environments.

BENEFITS/FEATURES

- High accuracy at low pressure ranges provides exceptional measurement for ensuring tight-control and minimizing costly out of specification conditions
- Intrinsically safe for use in the specified hazardous locations meets specifications where pressure transmission and safety cannot be compromised
- NEMA 4X rated enclosure provides protection in harsh environments permitting outdoor monitoring or in areas where dust and particulate matter exists

APPLICATIONS

- Lab fume hood control
- Clean room applications
- Flow measurements and control
- Filter monitoring
- Furnace draft measurement
- Process control

MODEL CHART	
Model	Range (in w.c.)
608-02	0 to 0.5
608-03	0 to 1.0
608-04	0 to 2.0
608-05	0 to 5.0
608-06	0 to 10.0
608-07	0 to 25.0
608-01B	0 to ±0.25
608-13B*	0 to ±1.0
608-04B	0 to ±2.0

*Models have a ±0.25% FS accuracy.

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

Note: New units include data report/calibration report. NIST can be provided for an additional fee.

ACCESSORIES	
Model	Description
MTL5541	Intrinsically safe galvanic isolator
MTL7706	Intrinsically safe zener barrier

SPECIFICATIONS

Service: Clean/dry air and compatible gases. Clean dry air/gases compatible with aluminum, titanium, PBT, buna, silicone, glass, gold, silicone RTV and stainless steel. Not for use with liquids.

Wetted Materials: Consult factory.

Accuracy: ±0.5% or ±0.25% full scale.

Stability: ±0.5% F.S./year.

Pressure Limits: 100 psig (6.89 bar); 15 psid (1.03 bar).

Temperature Limits: -20 to 185°F (-28 to 85°C).

Compensated Temperature Range: 0 to 160°F (-18 to 71°C).

Thermal Effect: 0.5% Accuracy: ±0.02% F.S./°F; 0.25% Accuracy: ±0.01% F.S./°F.

Power Requirements: 12-36 VDC (2-wire).

Output Signal: 4-20 mA DC.

Zero and Span Adjustments: Potentiometers for zero and span.

Response Time: 250 ms.

Loop Resistance: DC: 0-1045 Ωs maximum.

Electrical Connections: Screw terminal: Two 1/2" female NPT conduit.

Process Connections: Two 1/4" female NPT.

Enclosure Rating: NEMA 4X (IP65).

Mounting Orientation: Not position sensitive.

Weight: 2 lb (0.9 kg).

Agency Approvals: FM approved intrinsically safe for use in Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1 when wired with approved intrinsically safe barrier. Entity parameters: Vmax= 36 VDC; Imax= 250 mA; Ci=12 nF; Li=0 mH.

Static Fitting Options: See page 452 (Static Pressure Tips)
Process Tubing Options: See page 453 (Gage Tubing Accessories)