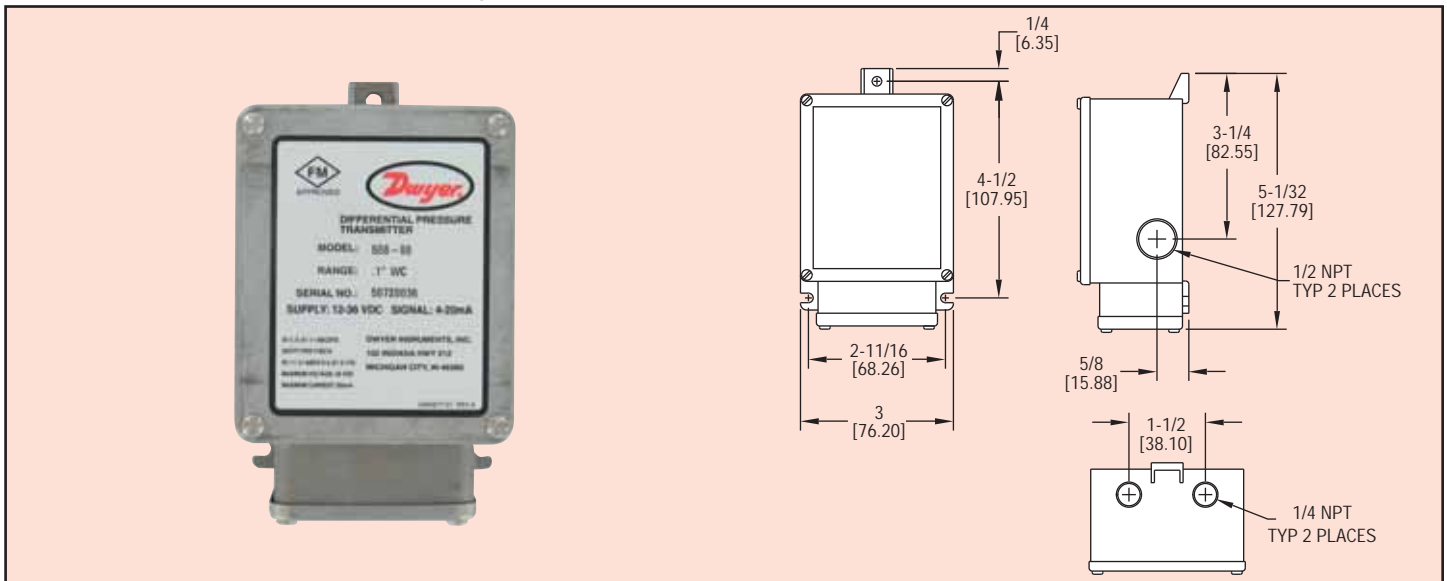




Series
608

Intrinsically Safe Differential Pressure Transmitter

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



The Series 608 Differential Pressure Transmitters convert positive, negative (vacuum), or differential pressures of clean, dry air or other non-conductive, non-corrosive gases into a standard two 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" of 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, stainless steel housing makes this transmitter ideal for use in industrial and process plant environments.

APPLICATIONS

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

| Model | Range (in. w.c.) | Model | Range (in. w.c.) |
|---------|------------------|----------|------------------|
| 608-00 | 0-0.1 | 608-07 | 0-25.0 |
| 608-10* | 0-0.1 | 608-17* | 0-25.0 |
| 608-01 | 0-0.25 | 608-00B | 0.1-0-0.1 |
| 608-11* | 0-0.25 | 608-10B* | 0.1-0-0.1 |
| 608-02 | 0-0.5 | 608-01B | 0.25-0-0.25 |
| 608-12* | 0-0.5 | 608-11B* | 0.25-0-0.25 |
| 608-03 | 0-1.0 | 608-02B | 0.5-0-0.5 |
| 608-13* | 0-1.0 | 608-12B* | 0.5-0-0.5 |
| 608-04 | 0-2.0 | 608-03B | 1.0-0-1.0 |
| 608-14* | 0-2.0 | 608-13B* | 1.0-0-1.0 |
| 608-05 | 0-5.0 | 608-04B | 2.0-0-2.0 |
| 608-15* | 0-5.0 | 608-14B* | 2.0-0-2.0 |
| 608-06 | 0-10.0 | 608-05B | 5.0-0-5.0 |
| 608-16* | 0-10.0 | 608-15B* | 5.0-0-5.0 |

*Models have a $\pm 0.25\%$ F.S. accuracy.

SPECIFICATIONS

Service: Clean/dry air and compatible, combustible gases. (see Agency Approvals for FM ratings).

Wetted Materials: Consult factory.

Accuracy: $\pm 0.5\%$ or $\pm 0.25\%$ full scale.

Stability: $\pm 0.5\%$ 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: $\pm 0.02\%$ F.S./°F; 0.25% Accuracy: $\pm 0.01\%$ F.S./°F.

Power Requirements: 12 to 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 ohms maximum.

Current Consumption: 4-20 mA.

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

Process Connections: Two 1/4" female NPT.

Enclosure Rating: NEMA 4X (IP66).

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: $V_{max} = 36$ VDC; $I_{max} = 250$ mA; $C_i = 12$ nF; $L_i = 0$ mH.

ACCESSORIES

MTL5041, Intrinsically Safe Galvanic Isolator

MTL7706, Intrinsically Safe Zener Barrier