The Series 648B and 648C Differential Pressure Transmitters are designed to be used with clean, dry air and other non-corrosive gases. Each unit features a flame retardant plastic top cover and a stainless steel bottom plate for ruggedness. The pressure ranges vary from 0.1 in w.c. to 25 in w.c. unidirectional and 0.25 in w.c. to 5 in w.c. bidirectional. Series 648B comes standard with ±0.8% FS* accuracy, while 648C models are available in ±0.4% FS* accuracy for more demanding applications.

- **Ranges**: 0 to ±5 in w.c., 0 to ±2.5 in w.c., 0 to ±1 in w.c., 0 to ±0.5 in w.c., 0 to ±0.25 in w.c.
- **Accuracy**: ±2.0% FS* at room temperature. *RSS (Root Sum Square) includes non-linearity, hysteresis and non-repeatability.
- **Stability**: ±1% FS/yr.
- **Temperature Limits**: Operating: 23 to 185°F (-5 to 85°C); Storage: -65 to 185°F (-54 to 85°C). Compensated Temperature: 32 to 170°F (-0 to 77°C)
- **Pressure Limits**: ±10 psi (69 kPa); Storage: -6 to 170°F (-18 to 77°C)
- **Response Time**: Approximately 10 ms.
- **Warm-Up Shift**: < 0.05% FS/F
- **Zero and Span Adjustments**: Push-button for zero, potentiometer for span.
- **Supply Voltage**: 5.0 ±0.25 VDC
- **Output Signal**: 0.5 to 4.5 VDC
- **Electrical Connection**: Detachable euro-style terminal block.
- **Process Connections**: AWG, approximately 3.5˝ length. Detachable barbed fitting for 1/8˝ ID push-on tubing.
- **Housing**: SS and PC+ABS alloy. Weight: 3.8 oz (108 g).

**SPECIFICATIONS**

**Service**: Air and non-combustible, compatible gases.

**Wetted Materials**: 302 SS, glass, nickel, silicon rubber, polyethylene, acrylic, ABS and brass.

**Accuracy**: ±0.8% FS* at room temperature. 

**Accuracy** includes non-linearity, hysteresis and non-repeatability.

**Stability**: ±1% FS/yr.

**Temperature Limits**: Operating: 23 to 185°F (-5 to 85°C); Storage: -65 to 185°F (-54 to 85°C). Compensated Temperature: 32 to 170°F (-0 to 77°C). Zero/Span Shift: < 0.05% FS/F (< 0.09% FS/C).

**Warm-Up Shift**: < 0.05% FS.

**Power Requirements**: 13 to 32 VDC. Output Signal: 4 to 20 mA.

**Wiring Time**: Reduced with the removeable terminal block. Each unit features a 2-wire 4 to 20 mA output that is fully protected against short circuiting and incorrect wiring.

**Response Time**: Approximately 10 ms.

**Warm-Up Shift**: < 0.05% FS/F

**Zero and Span Adjustments**: Push-button for zero, potentiometer for span.

**Temperature Limits**: Operating: 23 to 185°F (-5 to 85°C); Storage: -65 to 185°F (-54 to 85°C). Compensated Temperature: 32 to 170°F (-0 to 77°C). Zero/Span Shift: < 0.05% FS/F (< 0.09% FS/C).

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**Temperature Limits**: Operating: 23 to 185°F (-5 to 85°C); Storage: -65 to 185°F (-54 to 85°C). Compensated Temperature: 32 to 170°F (-0 to 77°C). Zero/Span Shift: < 0.05% FS/F (< 0.09% FS/C).

**Warm-Up Shift**: < 0.05% FS.