Monitor differential pressure in air/liquid flow systems, HVAC automation, pneumatic systems and process control with the Series 647 Wet/Wet Differential Pressure Transmitter. Units are temperature compensated and provide a 4 to 20 mA output signal which can be interfaced with chart recorders, data loggers and computerized monitoring and control systems.

**Series 647 Wet/Wet Differential Pressure Transmitter**

Ranges from 0 to 1 in w.c., ±1.0% Accuracy, NEMA 4 (IP56) Enclosure, 2-Wire

![Image](Image_1.png)

**SPECIFICATIONS**

**Service:** Compatible gases or liquids on both pressure and reference sides.

**Wetted Materials:** Brass, vinyl, glass-filled polyester, silicon, and florosilicone.

**Accuracy:** ±1.0% FS.

**Stability:** ±1.5% FS output/year.

**Temperature Limits:** 32 to 122°F (0 to 50°C).

**Pressure Limits:** Ranges 1 in w.c. to 5 psi: 20 psi, 15 psi range: 45 psi, 30 psi range: 60 psi.

**Thermal Effects:** Zero: ±0.05% FS/F°, Span: ±0.05% rdg/F°.

**Power Requirements:** 18 to 30 VDC.

**Output Signal:** 4 to 20 mA, 2-wire.

**Zero and Span Adjustments:** Adjustable, ±10%.

**Loop Resistance:** 400Ω @ 18 VDC, 600Ω @ 24 VDC, 1000Ω @ 30 VDC.

**Electrical Connection:** Screw terminals, reverse polarity protected.

**Process Connections:** Two 1/8˝ female NPT.

**Housing:** Gasketed steel epoxy painted, NEMA 4 (IP56).

**Weight:** 14 oz (397 g).

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**Series 645 Wet/Wet Differential Pressure Transmitter**

±0.25% Accuracy, Quick Response, 2-Wire Design

![Image](Image_2.png)

**SPECIFICATIONS**

**Service:** Compatible gases or liquids on both pressure and reference sides.

**Wetted Materials:** Brass, vinyl, glass-filled polyester, silicon, and florosilicone.

**Accuracy:** ±0.25% FS (RSS).

**Temperature Limits:** Operating: 0 to 175°F (-22 to 80°C); Storage: -65 to 260°F (-54 to 126°C).

**Pressure Limits:** (High side) 1 to 5 psi: 20 x FS, 10 to 25 psi: 10 x FS, 50 psi: 5 x FS, 100 psi: 5 x FS, 25 x FS (low side) 2.5 x FS.

**Thermal Effects:** (includes zero and span) ±0.02% FS/F°, 30 to 150°F (-1 to 65°C).

**Power Requirements:** 11 to 30 VDC.

**Output Signal:** 4 to 20 mA, 2-wire.

**Zero and Span Adjustments:** Adjustable, ±1 mA, non-interactive.

**Response Time:** 30 to 50 ms.

**Loop Resistance:** 0 to 1000Ω.

**Electrical Connection:** Barrier strip terminal block with conduit enclosure and .875˝ (22 mm) diameter conduit opening.

**Process Connection:** 1/4˝-18 female NPT.

**Housing:** Stainless steel/aluminum, NEMA 4X (IP56).

**Weight:** 14.4 oz (0.4 kg).

**Agency Approvals:** CE

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