Differential Pressure Transmitters

Series 645 Wet/Wet Differential Pressure Transmitters are designed for use with compatible gases and liquids which can be applied to both the pressure and reference ports. Quick response capacitance sensor delivers a 4 to 20 mA output signal proportional to differential pressure with ±0.25% accuracy. The Series 645 transmitters are ideal for process control, filter condition monitoring, refrigeration equipment, pump speed control, HVAC systems, and process control with the Series 647 Wet/Wet Differential Pressure Transmitter.

**SPECIFICATIONS**

- **Service**: Compatible gases or liquids on both pressure and reference sides.
- **Wetted Materials**: Stainless steel, 300 Series stainless steel, fungi-proof, and silicone.
- **Response Time**: Operating: 0 to 150°F (15 to 30°C).
- **Span**: Adjustable, ±1 mA, non-interactive.
- **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/IP66.
- **Weight**: 14 oz (397 g).

**Range**

- Model 645-0: 0 to 2 psid
- Model 645-1: 0 to 4 psid
- Model 645-2: 0 to 5 psid
- Model 645-3: 0 to 10 psid
- Model 645-4: 0 to 20 psid
- Model 645-5: 0 to 50 psid

**Wetted Materials**

- **Brass**: Inert in most systems
- **316 stainless steel**: For general service
- **416 stainless steel**: For use in aggressive environments
- **304 stainless steel**: For use in corrosive environments

**High Pressure Connection**

- **Process Connection**: 1/8˝ female NPT
- **Screw**: Two 1/8˝

**Low Pressure Connection**

- **Process Connection**: 1/8˝ female NPT
- **Screw**: Two 1/8˝

For optional 3-Valve Manifold Assembly, specify 3V as suffix.