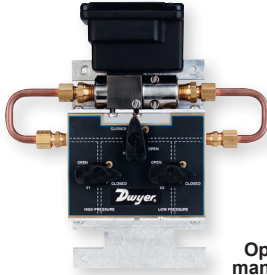


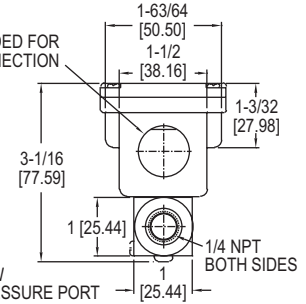
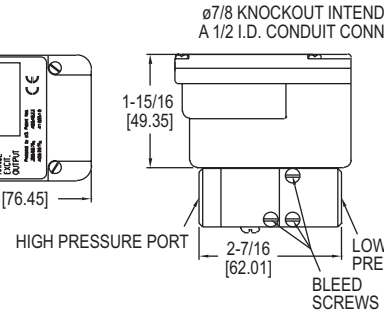
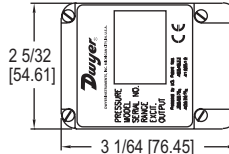
SERIES 645

WET/WET DIFFERENTIAL PRESSURE TRANSMITTERS

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



Optional 3-valve manifold assembly



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 4-20 mA output signal proportional to differential pressure with $\pm 0.25\%$ accuracy. The Series 645 transmitters are ideal for process control, filter condition monitoring, refrigeration equipment, pump speed control, HVAC equipment, and liquid level measurement. For ease of installation and maintenance, order optional 3-valve manifold assembly. Bleed ports allow for total elimination of air in the line and pressure cavities.

FEATURES/BENEFITS

- Versatile, high-accuracy device for liquid or gas supports designs requiring more precise measurements in support of application
- Optional 3-way valve manifold supports simplifying installation or removal of transmitter without interrupting process

APPLICATIONS

- Process control
- Refrigeration equipment
- HVAC equipment
- Filter monitoring
- Pump speed control
- Liquid level measurement

MODEL CHART

Model	Range
645-0	0 to 1 psid
645-1	0 to 2 psid
645-2	0 to 5 psid
645-3	0 to 10 psid
645-4	0 to 25 psid
645-5	0 to 50 psid
645-6	0 to 100 psid

Note: For optional 3-valve manifold assembly, add -3V to end of model number.

SPECIFICATIONS

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

Wetted Materials: 17-4 PH stainless steel, 300 Series stainless steel, fluor elastomer and silicone O-rings and bleed screw seals.

Accuracy: $\pm 0.25\%$ 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: 2.5 x FS; (low side) 2.5 x FS.

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

Power Requirements: 11-30 VDC.

Output Signal: 4-20 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.

3-VALVE MANIFOLD ASSEMBLY
Manifold: Brass.

Valve Type: 90° on/off.

Process Connection: 1/4"-18 female NPT.

OPTIONS

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

