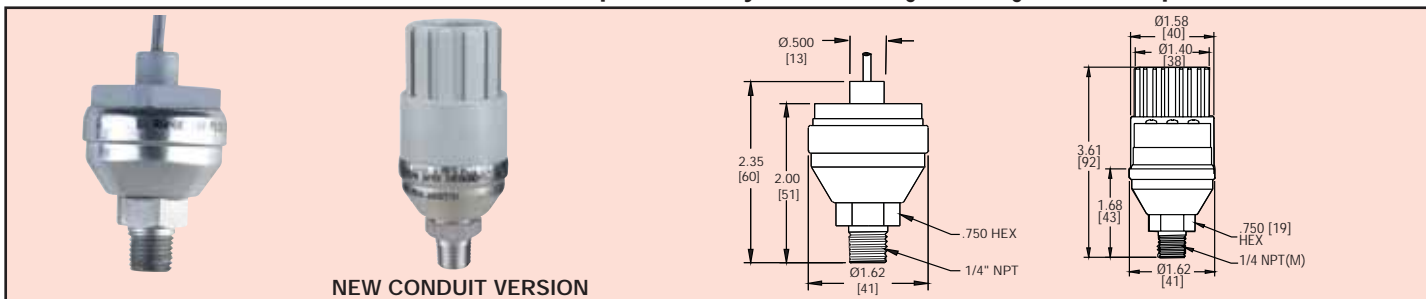


Series
673

Pressure Transmitter

±0.25% Full Span Accuracy, 4-20 mA Signal, Ranges to 1000 psi



NEW CONDUIT VERSION

The low cost Series 673 Pressure Transmitter is a fixed range transmitter designed for harsh environments and suitable for high shock and vibration applications. Constructed of stainless steel, the Series 673 provides a 4 to 20 mA output signal with 0.25% accuracy. Use the Series 673 in industrial OEM equipment, hydraulic systems, HVAC equipment, industrial engines and compressor control.

SPECIFICATIONS

Service: Liquid, gas, or vapor.

Wetted Materials: 17-4 PH SS.

Accuracy: ±0.25% FS (RSS), (includes non-linearity, hysteresis and non-repeatability).

Temperature Limits:

-40 to 260°F (-40 to 125°C).

Pressure Limits: 2 x maximum range.

Compensated Temperature Range: 4 to 212°F (-20 to 100°C).

Thermal Errors: Zero: ±3.6% FS/100°F(100°C); Span: ±2.7% FS/100°F(100°C).

Supply Voltage: 9-30 VDC.

Output: 4-20 mA, 2-wire.

Zero & Span Adjustment: Fixed.

Response Time: <60 msec.

Loop Resistance: 0 to 800Ω.

Stability: 0.5% FS/year.

Shock: 200 g.

Vibration: 20 g.

Electrical Connections: 2 ft (61 cm) multiconductor cable.

Conduit Connection: 1/4"-18 (22.3 mm) knockout.

Enclosure: Stainless Steel and Valox.

Weight: 2.3 oz (65 g).

Agency Approvals: CE.

MODELS

Model Number*		Range	Model Number*		Range
673-1	673-1C	0-1 psi	673-7	673-7C	100 psi
673-2	673-2C	0-2 psi	673-8	673-8C	200 psi
673-3	673-3C	0-5 psi	673-9	673-9C	500 psi
673-4	673-4C	0-10 psi	673-10	673-10C	1000 psi
673-5	673-5C	0-25 psi	673-13	673-13C	-14.7-30 psig
673-6	673-6C	50 psi	673-14	673-14C	-14.7-100 psig

* The model numbers followed by a "C" represent the conduit version.

Series
638

Pressure Transmitter

Stability, Stainless Steel, Intrinsically Safe, Accuracy ±0.50%, 4-20 mA Signal



Series 638 Pressure Transmitters employ a polysilicon sensor for superior longterm stability and repeatability with ±0.5% accuracy. They are FM approved intrinsically safe. Stainless steel NEMA 4X enclosure is ideal for corrosive media in hazardous environments. Output is 4-20 mA with 10-30 VDC power supply. NIST traceability with calibration certification is standard.

MODELS

Model Number*	Operating Range, PSI	Operating Range, Bar	Model Number*	Operating Range, PSI	Operating Range, Bar
638-4-FM	0-100	0-7	638-10-FM	0-1000	0-69
638-5-FM	0-150	0-10	638-11-FM	0-2000	0-138
638-6-FM	0-200	0-14	638-12-FM	0-3000	0-207
638-7-FM	0-300	0-21	638-13-FM	0-5000	0-345
638-8-FM	0-500	0-35	638-14-FM	0-7500	0-517
638-9-FM	0-750	0-50	638-15-FM	0-10000	0-689

*For low-cost non-FM version omit FM in model number.

ACCESSORIES

MTL5041, Intrinsically Safe Galvanic Isolator

MTL7706, Intrinsically Safe Zener Barrier

SPECIFICATIONS

Service: Liquid, gas or vapor.

Wetted Materials: 17-4PH SS.

Body: 300 SS.

Accuracy: ±0.50% F.S.

Repeatability: ±0.05% F.S.

Hysteresis: ±0.15% F.S.

Stability: Less than 1% F.S./Yr.

Temperature Limits:

Operating: -20 to 180°F (-29 to 82°C).

Pressure Limits: 200% for ≤ 2000 psig, 150% for 3000-5000 psig, 120% for 7500-10000 psig.

Compensated Temperature Range:

-20 to 160°F (-29 to 71°C)

Storage: -65 to 250°F (-54 to 121°C).

Thermal Effects: Zero: 0.028% F.S./°F
Span: 0.028% F.S./°F

Power Requirements: 10-30 VDC.

Output Signal: 4-20 mA DC, max. 30 mA DC (2-wire).

Zero and Span Adjust: ±2.8% F.S. each.

Response Time: Less than 10 ms.

Loop Resistance: $V_{min} = 10V + (.022A \times RL)$.

Electrical Connection: 36' (92 cm), 24 AWG.

Process Connection: 1/8" male NPT
Weight: 2 oz (56 g) approximate without cable.

Agency Approvals: FM.

Suggested Specifications

Pressure transmitter shall be stainless steel diaphragm and polysilicon strain gage bridge with 5 ranges from 0 to 500 psig (0 to 35 bar) and accuracy of ±0.50% F.S. Must have NIST traceable performance and a calibration test certificate. Unit shall be FM approved intrinsically safe for Class I, II, & III, Division 1, Group A, B, C, D, F & G for Hazardous Locations. Transmitter shall be Dwyer Model No. 638____.

Industrial Process and Sensor

Phone 618-465-7623

WWW.IPSCUSTOM.COM

FAX 618-465-7679