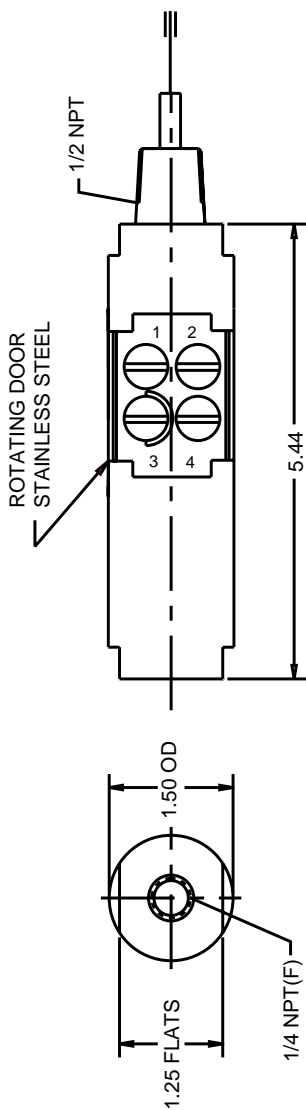


MULTI-RANGE PROCESS PRESSURE TRANSDUCER

Model 1171



PETROLEUM & PROCESS



FEATURES:

- 5 Through 100,000 PSI Ranges in PSISG, PSIA, Vacuum Options
- 4-20 mA Loop Powered
- 5:1 Ranging
- Waterproof
- Magnetic Coupling / Sealed
- 316 SS
- CE Approved
- FM Explosion Proof, and intrinsically safe approved
- CSA intrinsically safe approved

FOR:

- Off Shore Rigs and Pumping Platforms
- Pipelines and Processing
- Shipboard and Marine Applications
- Plastics and Paper - All Processes

This rugged, harsh-environment transmitter is small in size and designed to solve your worst weather nightmare.

Completely sealed, it can be submersed to 100 feet with submersible conduit. The all welded construction and 15-5 and 316 stainless steels used in the pressure cavity make the 1171 watertight and strong against corrosion. The unit is designed without an "O"-ring and insures reliability.

The external zero, span, and calibration controls are hermetically sealed and easily adjusted with the help of a magnetically-coupled drive system. This unit allows for 5:1 ranging of the transmitter's standard pressure range.

Pressure ranges include 5 through 75,000 PSI and are available in sealed gage, absolute and sealed vacuum.

Featuring a calibration circuit that permits setup and ranging, there is no need for a calibrated pressure source.

1171 is FM explosion proof, Intrinsically Safe, and CE Approved.

SPECIFICATIONS

Ordering: Specify model, and pressure range and indicate modifications or accessories required.

*Measured fluid temperature in excess of the compensated temperature limits may be acceptable depending on ambient temperature conditions.

Full Scale Pressure Range (FSPR)	0-5, 10, 15 PSISG, A, SV and 3-15 PSISG 0-20, 25, 30, 50, 75, 100, 150, 200, 300, 400, 500, 750, 1000, 1500, 2000, 3000, 4000, 5000, 7500, 10,000, 15,000, 20,000, 25,000, 30,000, 40,000, 50,000, 75,000, 100,000 PSISG, PSIA	20,000 to 100,000 PSI 1.2 x FSPR or 125,000 PSI whichever is less	
Supply Voltage	9-36V DC	Burst Pressure	0-5 thru 0-50 PSISG, A, SV and 3-15 PSISG 250 PSI 0-75 thru 0-15,000 PSIG, A - 5 times full scale pressure range or 22,500 PSIG, whichever is less 0-20,000 thru 0-100,000 PSIG, A - 1.5 times full scale pressure range or 125,000 PSIG, whichever is less
Regulations	Less than 0.02% FSO/V over supply voltage range	Long-Term Stability	Greater than 0.25% FSPR over six months
Output Signal	4-20 mA, 2 wire loop Powered	Resolution	Infinite
Load Impedance	1350 ohms a 36V DC	Response Time	Approximately 5 milliseconds
Accuracy	Greater than 0.25% of calibrated span including errors due to linearity, hysteresis and repeatability, RSS	Shock & Vibration Without Change	100 g's PK to PK
Combined Zero & Span Temperature Effects on Accuracy	Less than 1.0% per 100°F	Enclosure Materials	15-5 SS and 316 SS
Combined Zero & Span Temperature Effects on Accuracy At 5:1 Ranging	Less than 3.5% FSPR per 100°F	Measured Fluids	Any gas or liquid compatible with 15-5 SS Inconel X750 optional
Comensated Temperature Limits*	0-+170°F based on actual operating temperature	Standard Process Pressure Connection	0-5 thru 0-15,000 PSI - 1/4" Female Connection 0-20,00 thru 0-50,000 PSI - 9/16" - 18 gland thread, pressure relieved. 1/4" OD high pressure tube, 60 degree cone. Conforms to Autoclave type F-250-C 0-61,00 thru 0-75,000 PSI - 5/8" - 18 gland thread, pressure relieved. 5/16" OD high pressure tube, 60 degree cone. Conforms to Autoclave type F-312-C150
Operating Temperature Limits	-10 to +176°F	Electrical Connection	1/2" NPT male
Range Adjustments	5:1	Enlosure Classification	NEMA 3, 4
Range Calibration Signal	20% and 100%, calibration signals provided by maintain-contact switch	Weight	Less than 28 oz.
Range Calibration Signal Accuracy	Greater than 1.0%. Exact pressure to output correlation data provided.	Hazardous Location FM Explosion Proof (FM Standard)	Class I, II, III Division I Groups A, B, C, D, E, F, G
Zero Balance	Fine and Coarse adjustable	FM Intrinsically Safe	Class I, II, III Division I Groups A, B, C, D, E, F, G Ta = 80°C, T4
Interaction Between Zero & Span Range	Zero Adjustment does not affect range. Span adjustment effect on zero is less than 0.5%.	C E	Approved
Circuit Protection	Reverse polarity protected Units are protected against voltage transients above 45V to 20A at 0.02 milliseconds.	Accesories	Mounting Bracket, Conduit connection box, Loop powered digital indicator
Insulation Resistance	Better than 10 megohms @ 50V DC		
Proof Pressure	5 to 50 PSI 100 PSI 75 to 15,000 2xFSPR or 20,000 PSI, whichever is less		