GE Sensing

Features

- Flush, PTFE-coated elastometric diaphragm
- All-titanium construction
- Accuracy: ±0.25% full scale (FS) best straight line (BSL)
- Intrinsically safe approval
- Outputs: 4 to 20 mA
- Submersible with vented polyurethane cable

The PTX 1290 Series submersible/depth pressure transmitter is specifically designed for wastewater and pump/lift station applications. The all-titanium construction assures excellent life in the most hostile environments, including corrosive and hazardous chemical applications. The PTX 1290 Series pressure transmitter technology is based on Druck's field proven submersible sensors with the exception of the pressure port which is equipped with a flush PTFE-coated elastometric diaphragm that reduces the likelihood of grease or biosolids buildup.

An advanced micro-machined silicon piezoresistive pressure sensor provides excellent performance and resistance to shock and vibration. A tough, polyurethane cable is moulded to the transducer body, providing a high integrity, waterproof assembly. The cable is strengthened with Kevlar[®] so that there is no measurable elongation when the cable is lowered into deep wells.

The fully isolated, all-titanium design ensures long term reliable measurements in water and wastewater management, industrial, process and marine applications.

PTX 1290 Series

Druck Wastewater Submersible Pressure Transmitter

PTX 1290 Series is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name— GE Industrial, Sensing.





GE Sensing

PTX1290 Specifications

Pressure Measurement

Operating Ranges

Any range from 1.75 mH₂O to 15 mH₂O

Overpressure

The operating pressure range may be exceeded with negligible effect on calibration by 4x FS for ranges $\leq 7 \text{ mH}_2\text{O}$ 2x FS for ranges $> 7 \text{ mH}_2\text{O}$ (28 mH₂O Maximum)

Pressure Media

Fluids compatible with Titanium, PTFE-coated nitrile rubber and Polyurethane

Excitation Voltage

9 to 28 Vd.c.

The minimum supply voltage (V_{MIN}) which must appear across the pressure transmitter is 9V and is given by the following equation:- $V_{MIN} = V_{SUP} - (0.02 \times R_{LOOP})$

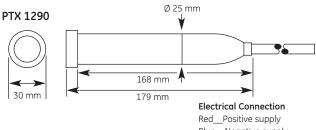
Output Signal

4 to 20 mA

Performance

Accuracy

Combined effects of non-linearity, hysteresis and repeatability $\pm 0.25\%$ FS BSL



Blue__Negative supply Shield__Not connected to case

Installation Drawings

Zero offset and Span Setting Maximum ±0.1 mA

Long Term Stability Maximum 0.2% FS per annum

Operating Temperature Range -20 to 60 °C

Compensated Temperature Range -2 to 30 °C

Temperature Effects $\pm 1.5\%$ FS for ranges above 7 mH₂O increasing prorata for ranges below 7 mH₂O

Insulation 500 Va.c. \leq 5 mA tested for 1 minute

Intrinsically Safe

Certified (BAS 01ATEX1018X) for use with IS barrier systems to EEx ia IIC T4 (-40 \leq T_{amb} \leq 80°C) for cable lengths to 300m maximum

CE Marking

CE marked for electromagnetic compatibility, pressure equipment directive and potentially explosive atmospheres

Physical

Electrical Connection

Vented Polyurethane cable with integral Kevlar strain relief cord rated to 54 kg load. Water Ingress protection IP68 to 700 $\rm mH_2O$

Cable Lengths

To be specified as required in 1 m increments

Weight

140 g nominal (excluding cable)

Caution

Do not remove the retaining ring that holds the elastometric diaphragm in place. This will void the calibration and could result in loss of the silicone pressure transfer compound.

Ordering Information

- 1) Model number
- 2) Pressure range
- 3) Cable length

Please order accessories as separate items



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