GE
Sensing & Inspection Technologies

PTX 300 Series
Druck Subsea Pressure Transmitters

The PTX 300 series of pressure transmitters has been developed for the offshore oil and gas industries as a compact, high performance device for reliable and long term subsea use. Maintenance free, it is available with operating ranges up to 1035 bar and is fully submersible with an ambient pressure rating up to 3000 mH_2O.

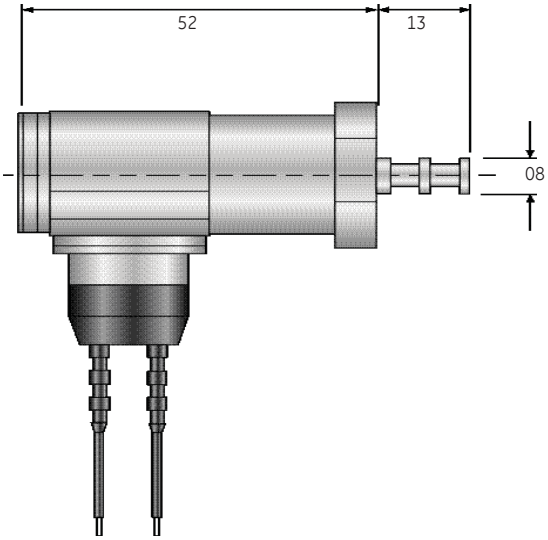
Originally designed for aerospace hydraulic systems, the PTX 300 series utilizes micromachined piezo resisitive silicon pressure measurement technology, continually developed and proven for 30 years.

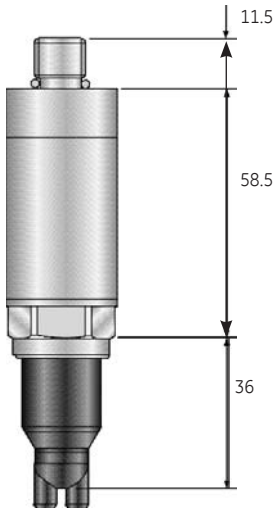
The product is packaged to suit the specific requirements of subsea hydraulic control systems. In particular, the high pressure containment rating, hydraulic transient protection and integrity of cable/electrical connections combine with the precision measuring technology to make the PTX 300 series a leader in this field.

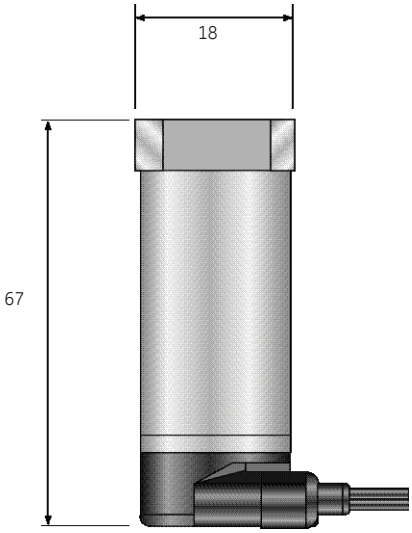
Features

- Ranges from 70 to 1035 bar
- External/ambient pressure up to 3000 mH_2O
- Better than 0.1% accuracy
- High reliability and excellent long term stability
- All welded construction, high containment
- Customized designs available

Installation Drawings







Typical outline examples (Dimensions in mm)

PTX 300 Specifications

Pressure Measurement

Operating Pressure Ranges
Any full scale range and engineering units may be specified between 0 - 70 bar and 0 - 1035 bar, sealed gauge or absolute.

Proof Pressure
Proof pressure tested to 1.5 x F.S.

Overpressure
The operating pressure range can be exceeded by 2 x F.S. to 1600 bar max, whichever is less.

Secondary Containment Pressure
The transmitter will safely contain up to 1150 bar maximum without leakage of pressure media.

Pressure Media
Fluids compatible with a fully welded assembly of Inconel 625 Hastelloy and Stainless Steel.
Other materials available - please refer to GE

Transmitter Supply Voltage
10 to 32 VDC. The minimum supply voltage that must appear across the transmitter terminals is 10 VDC. and is calculated by: VMIN = VSUP - (0.02 x RLOOP)

Supply Sensitivity
50.005% F.S./Volt.

Insulation Resistance
>100MV at 500 VDC

Output Current
4 to 20mA (2-wire) proportional for zero to full scale pressure.

Performance

Accuracy
Combined Non-linearity, Hysteresis and Repeatability: 50.1% F.S. B.S.L.

Zero Offset and Span Setting
±1% F.S. nominal at 237°C.

Long Term Stability
At standard reference conditions any calibration change will not exceed 50.1% F.S. per annum.

Temperature Range
Process/ambient	-40 to 807°C
Compensated	-20 to 507°C
Storage	-40 to 807°C

Temperature Effects
±0.5% F.S. Total Error Band.

Physical

Pressure Connection
Face or piston seal and threaded connections available. Please refer to GE Sensing & Inspection Technologies.

Electrical Connection
A choice of flying leads and/or subsea connectors are available. Please refer to GE Sensing & Inspection Technologies.

Weight
270 grams nominal.

Ingress Protection
IP68, submersible to 3000 mH_2O.

Ordering Information

Please state the following:
(1) Type number.
(2) Operating pressure range (Sealed gauge or absolute).
(3) Pressure and electrical connections required.

The PTX 300 series can be further customised to suit individual user requirements. Please refer to GE Sensing & Inspection Technologies.

Related Products

GE Sensing & Inspection Technologies manufactures a comprehensive range of pressure sensors, indicators, calibrators, controllers and deadweight testers. The range of portable calibrators also covers temperature and electrical parameters.

Please refer to GE for further information and product datasheets.

Calibration Standards

Instruments manufactured by GE Sensing & Inspection Technologies are calibrated against precision pressure calibration equipment which is traceable to International Standards. Continuing development sometimes necessitates specification changes without notice.

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