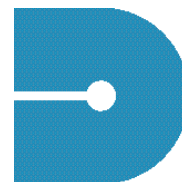


PTX 300 Series



Druck

Subsea Pressure Transmitters

- Ranges from 70 to 1035 bar
- External/ambient pressure up to 3000 mH₂O
- Better than 0.1% accuracy
- High reliability and excellent long term stability
- All welded construction, high containment
- Customised designs available



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 mH₂O.

Originally designed for aerospace hydraulic systems, the PTX 300 series utilises micromachined piezo resistive silicon pressure measurement technology, continually developed and proven by Druck 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.



Subsea Pressure Transmitters

STANDARD 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 Druck.

Transmitter Supply Voltage

10 to 32V d.c. The minimum supply voltage that must appear across the transmitter terminals is 10Vd.c. and is calculated by:

$$V_{\text{MIN}} = V_{\text{SUP}} - (0.02 \times R_{\text{LOOP}})$$

Supply Sensitivity

± 0.005% F.S./Volt.

Insulation Resistance

>100MΩ at 500V d.c.

Output Current

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

Performance

Accuracy

Combined Non-linearity, Hysteresis and Repeatability: ±0.1% F.S. B.S.L.

Zero Offset and Span Setting

±1% F.S. nominal at 23°C.

Long Term Stability

At standard reference conditions any calibration change will not exceed ±0.1% F.S. per annum.

Temperature Range

Process/ambient	-30 to 50°C
Compensated	-10 to 40°C
Storage (in air)	-40 to 80°C

Temperature Effects

±0.5% F.S. Total Error Band.

Physical

Pressure Connection

Face or piston seal and threaded connections available. *Please refer to Druck.*

Electrical Connection

A choice of flying leads and/or subsea connectors are available. *Please refer to Druck.*

Weight

270 grams nominal.

Ingress Protection

IP68, submersible to 3000 mH₂O.

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 Druck.

RELATED PRODUCTS

Druck manufactures a comprehensive range of pressure sensors, indicators, calibrators, controllers and deadweight testers. The range of portable calibrators also covers temperature and electrical parameters.

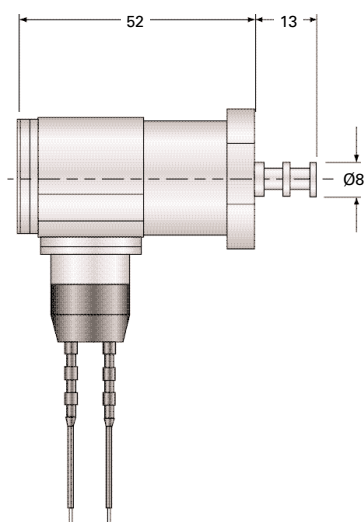
Please refer to Druck for further information and product datasheets.

CALIBRATION STANDARDS

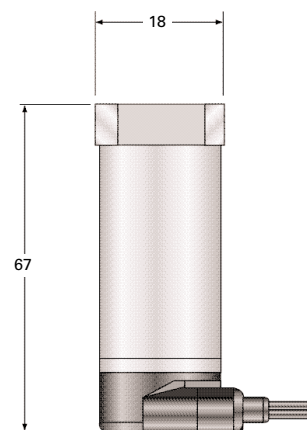
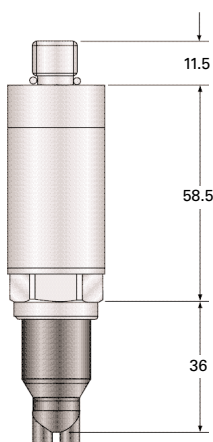
Instruments manufactured by Druck Limited are calibrated against precision pressure calibration equipment which is traceable to International Standards.

Continuing development sometimes necessitates specification changes without notice.

INSTALLATION DRAWINGS - Dimensions in mm



Typical outline examples shown



Druck Limited

Fir Tree Lane, Groby
Leicester, LE6 0FH, England

Tel: +44 (0) 116 231 7100
Fax: +44 (0) 116 231 7103
E-Mail: sales@druck.com
Internet: www.druck.com



Agent: