Features

- Ranges from 5 to 900 psi
- Accuracy ±0.25% full scale (FS) best straight line (BSL)
- Fully welded 0.69 in 316 stainless steel construction
- Pulse power operation
- Polyurethane cable
- Full range of installation accessories

The PDCR 1730 transducer (mV output) and PTX 1730 transmitter (4 to 20 mA output) are the latest generation of fully submersible, 316 stainless steel, high performance sensors for measurement of hydrostatic liquid levels.

Application specific features include a Kevlar® strain relieved vented cable, internal condensation protection and an IP68 injection moulded cable assembly, which ensures sensor operation was an extended lifetime.

1730 Series

Druck Stonders Steel

Level Ressure Sensors

1730 is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name—GE Sensing.



1730 Specifications

Pressure Measurement

Operating Pressure Ranges PDCR 1730 (mV)/PTX 1730 (mA)

5, 10, 15, 20, 30, 50, 75, 100, 150, 300, 500, 900 psi gauge

Overpressure

The operating FS pressure range can be exceeded by the following multiples with negligible effect on calibration.

- 4 x for 5 psi range
- 2 x for ranges 10 to 900 psi

Pressure Containment

- 10 x for 5 psi range
- 4 x for ranges up to 900 psi (2000 psi maximum)

Media Compatibility

Fluids compatible with 316 stainless steel, powerthan, (cable) and EPDM (nose cone).

Excitation Voltage PDCR 1730 (mV)

10 V at 1 mA nominal

Output is fully ratiometric to supply within 2.5 m/s 1

limits.

PTX1730 (mA)

9 to 30 VDC across terms

For pulse power operation refer to the Anical note

The minimum supply oltage Will which must appear across the pressure transmitter terminals is 9 V and is given by the following equation:

VMIN = VSUP - (0.02 x RLOOP)

Where V_{SUP} is supply voltage in Volts, R_{LOOP} is total loop resistance in Ohms

Output Signal PDCR 1730

- 50 mV for 5 psi range
- 100 mV for ranges 10 psi and above

PTX 1730

4 to 20 mA proportional for zero to FS pressure

Common Mode Voltage - PDCR 1730

Nominally 50% of excitation voltage

Output Impedance - POCR

 $5 \text{ k}\Omega$ nominal

Performance Specification

Accuracy

Combined effects of Monkey Repeatablity +0.25% PSI may

Zero Offset & Spon Setting

ACCR 1735

Typical: \$1.5 mt

TOMINO .

Maximum: ±0.1 mA

Long-Term Stability

 $2 \neq 0.2\%$ FS typical per annum

Operating Temperature Range

-4 to 140°F (-20 to 60°C)

Compensated Temperature Range

30 to 85°F (-1 to 30°C)

Temperature Effects

±0.5% FS Temperature Error Band (TEB)

Shock and Vibration

MIL-STD-810E, method 514.4. Category 10 min.

integrity. Figure 514.4-16

Product will withstand 20 g peak shock half sine wave

Insulation

Greater than 100 M Ω at 500 VDC

1730 Specifications

Physical Specification

Pressure Connection

G1/4 (female) with recessed open face diaphragm, fitted with protective EPDM nose cone.

Electrical Connection

Vented polyurethane cable with integral Kevlar® strain relief cord rated to 200 lb load. Water ingress protection

Cable Lengths

Variable cable lengths available from 3 to 1900 ft.

CE marking

CE marked for electromagnetic compatibility and

Documentation

Statement of conformity and installation

Accessories

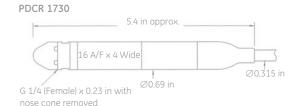
A full range of accessori 1730 Series as listed b

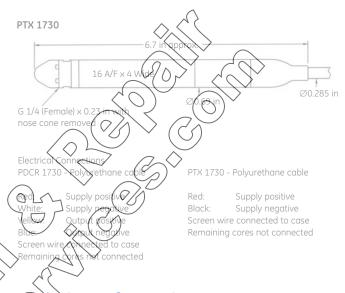
- STE moisture proof s
- Slimline sink weight Ø0.69
- Short sink weight Ø1 in
- Cable clamp system (192-373-01)
- 360° rotatable calibration adaptor to:

1/8 NPT (DA4112-4-01)

Economical direct calibration adaptor to:

G1/8 (DA2536-1-01)





ring Information

- (1) Model PDCR 1730 (mV) or PTX 1730 (mA)
- (2) Pressure range and scale units
- (3) Cable length required

Supporting Services

Our highly trained staff can support you, no matter nationally accredited calibration - both initially and at periodic intervals - extended warranty terms and even rental of portable or laboratory calibrators. Further





