PDCR/PTX 1730 Series





PDCR/PTX 1730 Series

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Submersible Level Pressure Sensors

STANDARD SPECIFICATION

Pressure Measurement Operating Pressure Ranges PDCR 1730 (mV)

1.5, 3.5, 7, 10, 15, 20, 35, 50, 70, 100, 150, 200, 350, 600 mH₂O gauge

PTX 1730 (mA)

Any zero based full scale (FS) from 1.5 mH₂0 through to 600 mH₂O gauge can be specified.

Other specifiable units: ftH2O, bar, mbar, psi, inH₂O, Kpa, kg/cm2

Overpressure

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

6 x for 1.5 mH₂O range

4 x for ranges up to 3.5 mH₂O 2 x for ranges up to 600 mH₂O

Pressure Containment

10 x for ranges up to 3.5 mH_2O $4 \times \text{ for ranges up to } 600 \text{ mH}_2\text{O} (1400 \text{ mH}_2\text{O max})$

Pressure Media

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

Excitation Voltage

PDCR 1730 (mv) 10V at 1mA nominal

PTX1730 (mA) 9 to 30Vdc across terminals

pulse power operation refer to technical note

Output Signal PDCR 1730

50 mV for ranges 1.5 and 3.5 mH $_2$ O 100 mV for ranges 7 mH $_2$ O and above PTX 1730

4 to 20 mA proportional to the span

Performance Specification

Combined effects of Non-linearity, Hysteresis and Repeatability: ±0.25% FS BSL maximum

Zero Offset & Span Setting PDCR 1730

Maximum: ± 3 mV PTX 1730 Maximum: ±0.1mA

Long Term Stability

± 0.2% FS typically per annum

Operating Temperature Range

Temperature Effects

±0.5% FS TEB over -2°C to 30°C For 1.5 mH₂O range multiply x 2

Insulation Resistance

Greater than 100 MW at 500 Vdc

Common Mode Voltage Nominally 50% of excita

Output Impedance (mV 5kW nominal

RFI/EMC CE Certification EMC emmi

rotection A

rtage spike ed between all

sine pulse in each of 3 dicular axes will not affect

Physical Specification

Pressure Connection

G 1/4 (female) with recessed open face diaphragm, fitted with protective EPDM nose cone.

Electrical Connection

6-core vented polyurethane cable supplied with Kevlar strain relieving cord in fixed lengths. Maximum cable assembly load 50 kg. s protection IP68 to 700 mH2O.

30, 40)60, 90, 120 metres. available from 120 to 600

Sor Termination Enclosure (202-034-01) 7. Sono Slimline Sink Weight (222-116-01) 200 Clamp System (192-373-01) Calibrator Adaptor (DA2536-1-01)

accessory details refer to product note

DOCUMENTATION

Statement of conformity and installation notes supplied as standard.

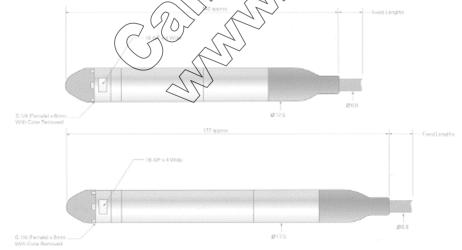
ORDERING INFORMATION

Please state the following:

- Model PDCR 1730 or PTX 1730
- Pressure range and pressure units Fixed cable length required
- Accessories (order as separate items)

Continuing development sometimes necessitates specification changes without notice

INSTALLATION DRAWINGS - Dime



Electrical Connections PDCR 1730

Supply positive White: Supply negative Yellow: Output positive Output negative Screen wire connected to case Remaining cores not connected

PTX 1730

Supply positive Red: Blue: Supply negative Screen wire connected to case Remaining cores not connected

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