

S
E
R
I
E
S
1
2
3
0



PTX/PDCR 1230 SERIES

Depth and Level Pressure Sensors

- $\pm 0.25\%$ accuracy
- Excellent stability
- All welded titanium construction
- Backed by 5 year corrosion warranty
- FM, CSA intrinsically safe, CE marked



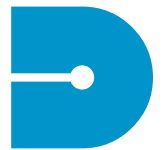
The 1230 Series submersible/depth pressure transducers are specifically designed for depth/level measurements in the groundwater, well water, canals, rivers, and other similar applications. The titanium construction assures excellent life in the most hostile environments, including corrosive and hazardous chemical applications. Druck backs its titanium construction with a 5 year corrosion warranty. Standard vented cable is polyurethane; tefzel cable is available on the 1280 Series Sensors.

The 1230 Series sensors are ideal for use in applications where smaller size is an advantage, such as municipal water supply wells, leachate wells, irrigation projects, etc. The all-welded titanium construction also makes the devices suitable for seawater measurement applications.

An advanced micromachined silicon piezoresistive pressure sensor provides excellent performance and resistance to shock and vibration. A tough, polyurethane cable is molded 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, titanium design ensures long term reliable measurements in water and wastewater management, industrial, process and marine applications.

PTX / PDCR 1230 SERIES



Druck

Depth and Level Pressure Sensors

SPECIFICATION

Operating Ranges
 1, 2.5 psig;
 5, 10, 15, 20, 30, 50, 75, 100, 150, 200, 300,
 500, 900 psia or psig
 Other pressure units can be specified.

Overpressure
 1 psig 10X
 2.5 psig 6X
 5 psig and up 4X
 2000 psi max

Pressure Media
 Fluids compatible with titanium and
 polyurethane

Transduction Principal
 Piezoresistive micromachined silicon strain
 gauge

**Combined Non-linearity, Hysteresis, and
 Repeatability**
 < ±0.25%FS BSL for all ranges
 Improved accuracy available

Temperature Effects
 +1.5% TEB for ranges of 5 psi and above
 +2.0% TEB for ranges below 1 and 2.5 psi

Resolution
 Infinite

Insulation Resistance
 100 megohms @50 Vdc

Relative Humidity
 0 to 100%

Operating Temperature Range
 -5°F to +140°F Ambient

Compensated Temperature Range
 30° to 86°F

Electrical Characteristics

Output
 PTX 1230
 2-wire, 4-20mA 9-32 Vdc Excitation

PDCR 1230
 25mV nominal for 1 psi range
 50mV nominal for 2.5 and 5 psi range
 100mV nominal for ranges 10 psi and above
 Output is ratiometric to 10 Vdc supply

Mechanical Characteristics

Sensor Body
 Titanium

Measurement Diaphragm
 Titanium

Pressure Connection
 Depth cone with radial inlet holes

Electrical Connection
 Vented polyurethane cable
 (specify length)

Diameter
 0.69" (17.5mm)

Weight
 5 oz. nominal (excluding cable)

Safety
 FM & CSA intrinsically safe
 Class I, Div 1 Groups A, B, C, D
 EMC Emmissions EN50081-1
 EMC Immunity EN50082-2
 Certification CE Marked

Ingress Protection
 Nema 6 (IP68)

Compatible Fluids
 Any fluid compatible with titanium and
 polyurethane

OPTIONS

- A) Sinkweight (P/N: DA2608-1-01)
- B) Monitor leads (PDCR version)
- C) Cable clamp (P/N: 192-373-01)

ASSOCIATED PRODUCTS

1280 Series	Same as 1230 series with Vented tefzel cable
DPI-280	Digital display
STE-110	Sensor termination enclosure with desiccant
SCU-220	Sensor termination enclosure with desiccant and 4-20mA electronics
DPI-610	Portable Pressure Calibrator
Lightning Arrester	P/N MDK-24 for PTX MDK-LC for PDCR

ORDERING INFORMATION

Please state the following:

- (1) Type number
- (2) Pressure range
- (3) Cable length
- (4) Options required

For non-standard requirements please
 specify in detail.

Shipping, Storage and Handling
 Each transmitter is purged with clean dry
 nitrogen and shipped with desiccant to
 prevent moisture ingress during transit.

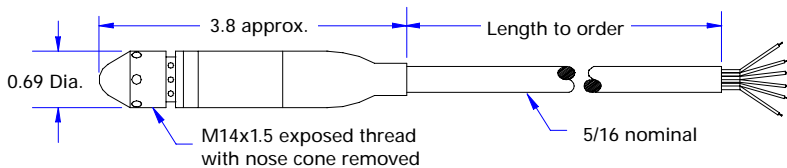
Continuing development sometimes
 necessitates specification changes without
 notice.

Druck is an ISO 9001
 registered company.

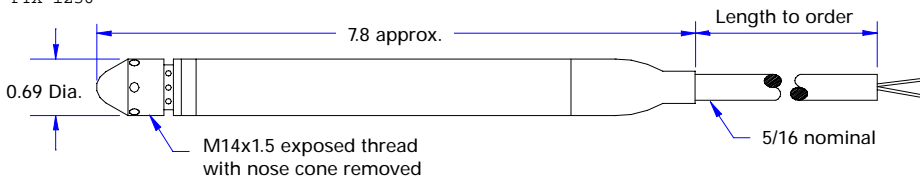


INSTALLATION DRAWINGS: Dimensions in inches

PDCR 1230



PTX 1230



PDCR 1230

Electrical Connection

Vented polyurethane cable
 Red Positive supply
 White Negative supply
 Yellow Positive output
 Blue Negative output
 Shield connected to case

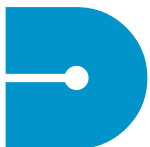
Any other conductors not connected.

PTX 1230

Electrical Connection

Vented polyurethane cable
 Red Positive supply
 Black Negative supply
 Shield connected to case

Any other conductors not connected.



Druck

Druck Incorporated
 4 Dunham Drive
 New Fairfield, CT 06812
 Tel: (203) 746-0400
 Fax: (203) 746-2494
 E-mail: usa.sales@druck.com
 www.druck.com
 www.pressure.com

Representative