

Depth & 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 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.

STANDARD 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° to +140°F Ambient

Compensated Temperature Range

30° to 86°F

Electrical Characteristics

Output

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

Weight

5oz nominally (excluding cable)

Safety

FM & CSA intrinsically safe
Class I, Div 1 Groups A, B, C, D
EMC Emissions 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
- B) Monitor leads (PDCR version)
- C) Cable clamp

ASSOCIATED PRODUCTS

1280 Series	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 present moisture ingress during transit.

Continuing development sometimes necessitates specification changes without notice.

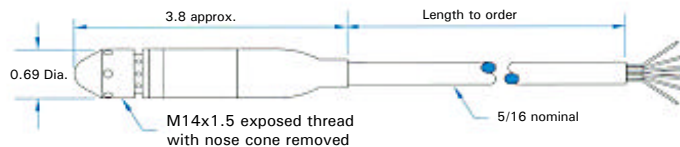
Druck is an ISO 9000 registered company.



INSTALLATION DRAWINGS

Dimensions in inches

PDCR 1230



PTX 1230



PDCR 1230

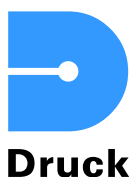
Electrical Connection

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 Incorporated

Representative

GE Druck PTX 1230 / PDCR 1230

Distributor: ThermX Southwest 800-284-3769

www.thermx.com