

# PTX 1230 Series

## Druck Depth and Level Pressure Sensors

The PTX 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 ensures excellent life in the most hostile environments, including corrosive and hazardous chemical applications, as well as environments where iron bacteria may be present. Druck backs its titanium construction with a five year corrosion warranty.

The PTX 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.

### Features

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



# PTX 1230 Specifications

## General

### Operating Ranges

- 1, 2.5 psi gauge
- 5, 10, 15, 20, 30, 50, 75, 100, 150, 200, 300, 500, 900 psi gauge or absolute

*Other pressure units can be specified.*

### Overpressure

- 10X for range 1 psig
- 8X 2.5 psi
- 6X 5 psi
- 4X for ranges above 5 psi
- 2000 psi maximum

### Pressure Media

Fluids compatible with titanium and polyurethane

### Transduction Principal

Piezoresistive micromachined silicon strain gauge

### Combined Error (Non-linearity, Hysteresis, and Repeatability)

±0.25% full scale (FS) base standard line (BSL)

### Temperature Effects Over Compensated

#### Range of 30°F to 86°F

±2.0% FS total error band (TEB). For ranges below 5 psi, error increases pro-rata.

### Resolution

Infinite

### Insulation Resistance

100 MΩ @50 VDC

### Relative Humidity

0 to 100%

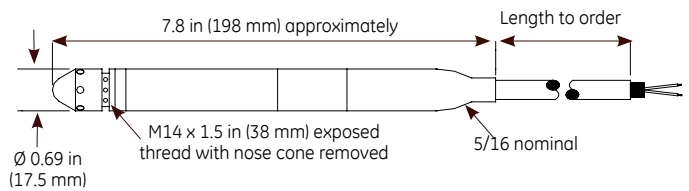
### Compensated Temperature Range

30°F to 86°F

### Operating Temperature Range

-5°F to 140°F

PTX 1230



#### Electrical Connection

Vented polyurethane cable  
Red- Positive supply  
Black- Negative supply  
Shield- connected to case  
Any other conductors not connected.

*Installation Drawings*

## Electrical Characteristics

### Output

PTX 1230

Two-wire, 4 to 20 mA

## 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 in

### Weight

5 oz nominally (excluding cable)

### Safety

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

## Ingress Protection

Type 6/IP68

## Compatible Fluids

Any fluid compatible with titanium and polyurethane

## Accessories

A full range of accessories is available to enhance installation, operation and maintenance of the PTX 1230 Series as listed below:

- STE moistureproof sensor termination enclosure (STE 110)
- Slimline sink weight Ø17.5 mm (DA2608-1-01)
- Short sink weight Ø25 mm (DA4068-1-01)
- Cable clamp system (192-373-01)
- 360° Rotatable calibration adaptor to:  
G1/8 (DA4112-1-01) 1/8 NPT (DA4112-2-01)
- Economical direct calibration adaptor to:  
G1/8 (DA2537-1-01) 1/8 NPT (DA2537-2-01)
- Accessory pack contains (TAS-A187)  
STE box      Slimline sink weight  
Cable clamp    Direct calibration adaptor

## Options

- FM/CSA certification
- Threaded pressure port (welded) 1/4, 1/8 NPT male, 7/16 UNF male, G1/4, G1/8 male.

## Ordering Information

- (1) Type number
- (2) Pressure range
- (3) Cable length
- (4) Options required
- (5) Supporting Services (order as separate items)

*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.

## Supporting Services

Our highly trained staff can support you, no matter where you are in the world. We can provide training, nationally accredited calibration - both initially and at periodic intervals - extended warranty terms and even rental of portable or laboratory calibrators. Further details can be found in [www.ge-mcs.com/services-and-support.html](http://www.ge-mcs.com/services-and-support.html)



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