

PTX/PMP 1290

Wastewater Submersible Pressure Transmitters/Transducers

- All-titanium construction backed by 5 year corrosion warranty
- Accuracy: $\pm 0.25\%$ FS BSL
- Flush teflon-coated elastomeric diaphragm
- Intrinsically safe approved
- Outputs: 4-20mA, 1-5 Vdc
- Submersible with vented polyurethane cable



The 1290 Series submersible/depth pressure transducers are specifically designed for the wastewater, pump/lift station application. The all-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.

The 1290 Series pressure transmitter is similar to Druck's field proven submersible sensors with the exception of the pressure port. It is equipped with a flush teflon-coated elastomeric diaphragm that reduces the likelihood of grease or biosolids buildup. The pressure transfer medium is a silicone grease that maintains its elasticity between -40 and $+250^{\circ}\text{F}$.

An advanced micro-machined 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, all-titanium design ensures long term reliable measurements in water and wastewater management, industrial, process and marine applications.

STANDARD SPECIFICATION

Operating Ranges
Any range from 6 Ft H₂O to 46 Ft H₂O with elastomeric diaphragm. Higher ranges to 500 psi g available with plastic screen in place of elastomeric diaphragm.

Overpressure
4X minimum

Pressure Media
Fluids compatible with Titanium and polyurethane

Transduction Principle
Piezoresistive-micromachined silicon strain gauge

Combined Non-linearity, Hysteresis and Repeatability
<±0.25% FS BSL

Temperature Effects
±1.5% FS TEB 10 psig and up
Ranges 5 psig and below prorated

Resolution
Infinite

Insulation Resistance
100 megOhms @ 500 Vdc

Relative Humidity
0 to 100%

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

Compensated Temperature Range
30°F to 86°F

Electrical Characteristics

PTX 1290
2-wire, 4-20mA
9-32 Vdc excitation

PMP 1290
3-wire, 1-5 Vdc
8-30 Vdc excitation
<2 mA current @80°F

Mechanical Characteristics

Sensor Body
Titanium

Measurement Diaphragm
Internal-Titanium
External-Teflon coated Nitrile Rubber

Pressure Connection
Flush elastomeric diaphragm with titanium retaining ring

Electrical Connection
Vented polyurethane cable (specify length)

Diameter
1.20" max O.D.

Weight
5 oz. nominal (excluding cable)

Compatible Fluids
Any fluids compatible with titanium, polyurethane and teflon coated nitrile rubber

Safety Classification
UL, cUL, intrinsically safe; Class I, Div 1
Groups A, B, C and D
Class II, Groups E, F and G
Class III

Ingress Protection
NEMA 6 (IP68)

Caution
Do not remove the retaining ring that holds elastomeric diaphragm in place. This will void the calibration and could result in a loss of the silicone pressure transfer compound.

ASSOCIATED PRODUCTS

1230 Series	Submersible sensor
DPI 280	Digital display w/ alarms
STE 110	Sensor termination enclosure w/ desiccant
Lightning Arrestors	
	MDK-24 2 wire
	MDK-LV 3 wire
	MDK-LC 4 wire
SCU-220	Din rail mountable sensor termination enclosure w/ desiccant and 4-20mA electronics
DPI 610	Portable pressure calibrator
TRX II	Portable temperature and pressure calibrator

ORDERING INFORMATION

Please state the following:
(1) Type number
(2) Pressure range
(3) Cable length

For non-standard requirements please specify in detail.

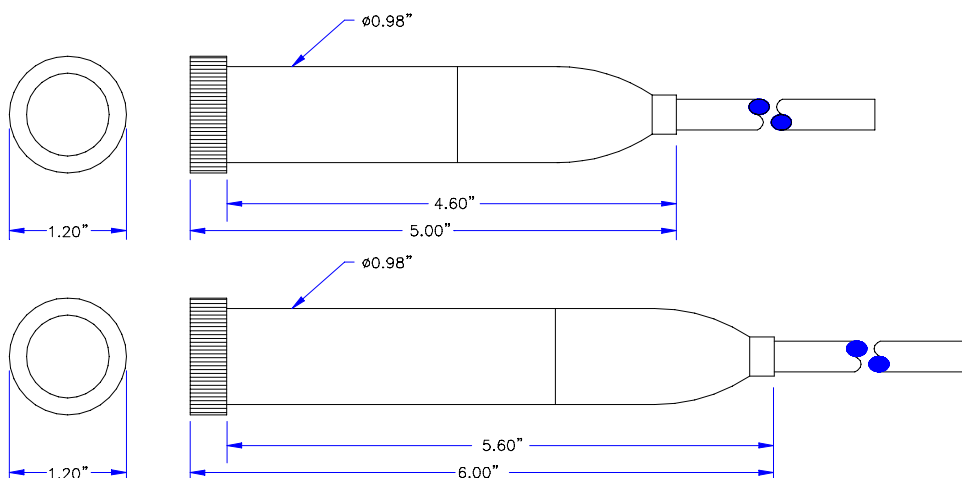
Shipping, Storage and Handling
Each transmitter is purged with clean dry nitrogen and shipped with desiccant to prevent moisture ingress during transit.

Continuing development sometimes necessitates specification changes without notice.

Druck is an ISO 9001 registered company.

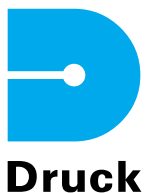


INSTALLATION DRAWINGS: Dimensions in inches



PMP 1290
Electrical Connection
Red Positive Supply
White Negative Supply
Yellow Positive Output
Shield Connected to Case

PTX 1290
Electrical Connection
Red Positive Supply
Black Negative Supply
Shield Connected to Case



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