

High Accuracy Submersible Pressure Transmitter

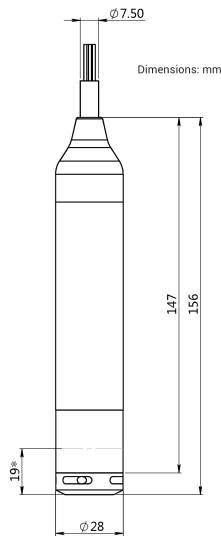
Product Details

PX633 Submersible Level Transmitter is designed for dealing with the most demanding level measurement conditions. The sensor adopts advanced microprocessor technology with comprehensive linear and temperature error compensation assuring the high precision measurements.

The probe employs full potting, reference tube condensation countermeasures, a dual seal design, and a rugged stainless steel body to assure long term reliability, performance, and stability. The signal transmitting module has transient voltage protection to assure operation under the harsh surge voltage environments (surge protection is not guaranteed and is not covered by warranty). An inverted cone seal extends working life of cable and transducer in conditions where the sensor may experience severe stress from turbulent process media. PX633 Submersible level transmitter is the optimal choice to satisfy all of high demand level measuring applications.

Features

- Available with Accuracies of 0.5%, 0.25% and 0.1% of Full Scale
- Designed for Complete Submergibility
- Unique Cable Seal System Insures Water-Tight Integrity
- High Static Accuracy and Repeatability
- Fully Temperature Compensated
- CE Certificate Included
- 100% Computer Tested, Calibrated and Serialized
- Calibration Sheet Provided



*Show the distance from sensing diaphragm to the bottom of product
Weight: about 340g (without cable)

Product Number	Pressure Range	Accuracy Value	Cable Length
PX633A1-003GI	0 to 3 psi	±0.1%	20' CABLE
PX633A1-005GI	0 to 5 psi	±0.1%	20' CABLE
PX633A1-015GI	0 to 15 psi	±0.1%	50' CABLE
PX633A1-030GI	0 to 30 psi	±0.1%	90' CABLE
PX633A1-100GI	0 to 100 psi	±0.1%	250' CABLE
PX633A1-150GI	0 to 150 psi	±0.1%	365' CABLE
PX633A1-250GI	0 to 250 psi	±0.1%	595' CABLE
PX633A1-300GI	0 to 300 psi	±0.1%	710' CABLE
PX633A2-003GI	0 to 3 psi	±0.25%	20' CABLE
PX633A2-005GI	0 to 5 psi	±0.25%	20' CABLE
PX633A2-015GI	0 to 15 psi	±0.25%	50' CABLE
PX633A2-030GI	0 to 30 psi	±0.25%	90' CABLE
PX633A2-100GI	0 to 100 psi	±0.25%	250' CABLE
PX633A2-150GI	0 to 150 psi	±0.25%	365' CABLE
PX633A2-250GI	0 to 250 psi	±0.25%	595' CABLE
PX633A2-300GI	0 to 300 psi	±0.25%	710' CABLE
PX633A5-003GI	0 to 3 psi	±0.5%	20' CABLE
PX633A5-005GI	0 to 5 psi	±0.5%	20' CABLE
PX633A5-015GI	0 to 15 psi	±0.5%	50' CABLE
PX633A5-030GI	0 to 30 psi	±0.5%	90' CABLE
PX633A5-100GI	0 to 100 psi	±0.5%	250' CABLE
PX633A5-150GI	0 to 150 psi	±0.5%	365' CABLE
PX633A5-250GI	0 to 250 psi	±0.5%	595' CABLE
PX633A5-300GI	0 to 300 psi	±0.5%	710' CABLE

Specifications

Turndown = nominal range of the device / set span of device
EXAMPLE: a PX3005-1KWDWBI with set span of 500"H₂O TD = 1000"H₂O/500"H₂O = 2

Accuracy:

20°C ± 5°C (68°F ± 9°)
 PX633A1: 0.01% FS NLHR
 PX633A2: 0.25% FS NLHR
 PX633A5: 0.50% FS NLHR

Long Term Stability:

±0.2% FS/ year

Ambient temperature effects (20°C to 80°C)

±0.2% FS/10K

Power Supply Effects:

± 0.005% FS/V (Zero and Span)

Load Effect:

± 0.05% FS/kΩ (Zero and Span)

Vibration Effects:

IEC61298-3/GB/T 18271.3; 20g (5-2000HZ, max<±3mm) <0.1% FS

Supply Voltage (U):

10.5 to 55VDC

Output Signal:

4 to 20mA DC

Load Resistance Ω:

<(U-10)/0.021

Maximum Current:

20.8mA

Transmission Distance:

< 1000m

Power Consumption:

500mW(20.8mA output @ 24VDC)

Operating Temperature:

-10 to 70°C (14 to 158°F)

Storage Temperature:

-30 to 80°C (- 22 to 176°F)

Protection Class:

IP68

Electrical Connection:

PUR cable, outer diameter (7.5±0.2)mm

Isolation Diaphragm Material:

316 SS

Fill Fluid:

Silicon oil

Sensor Seal:

O-ring, FMK

Side Cover Material / Diameter:

316 SS/ 28mm

EMC Environment:

GB/T 9254/CISPR22

GB/T 17626.2/IEC61000-4-2

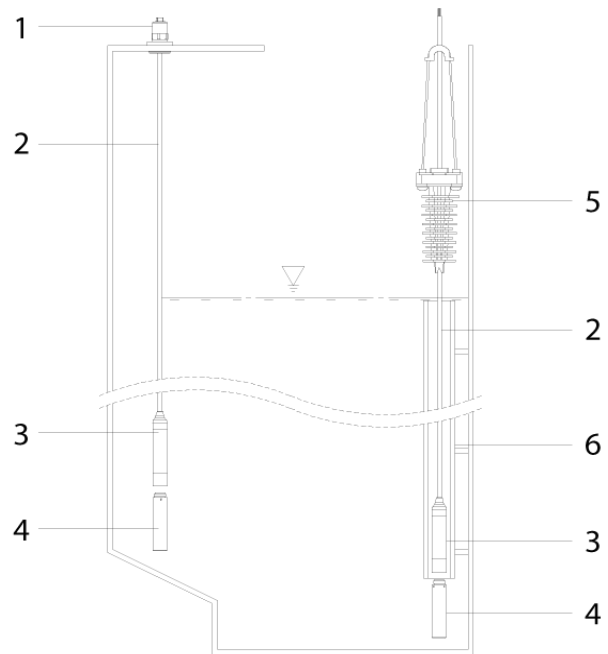
GB/T 17626.3/IEC61000-4-3

GB/T 17626.8/IEC61000-4-8

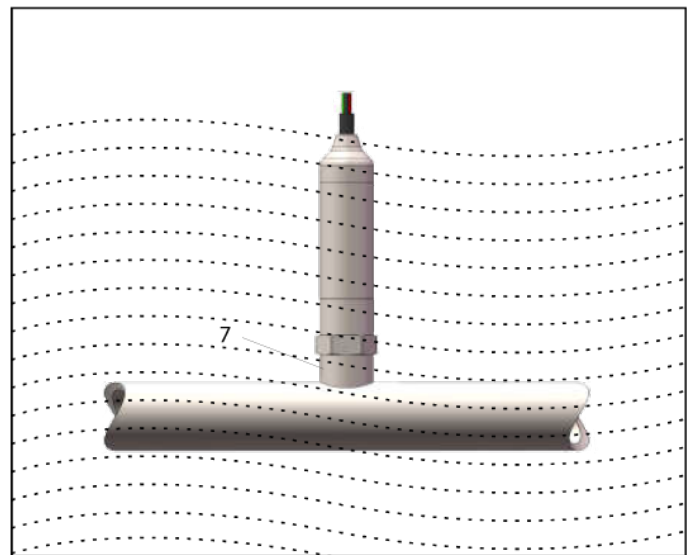
GB/T 17626.4/IEC61000-4-4

GB/T 17626.5/IEC61000-4-5

GB/T 17626.6/IEC61000-4-6



1. Tank Cable Clamp, PX633-CLAMP
2. Transmitter Cable
3. Level transmitter
4. Counter weight, PX633-WEIGHT
5. Cable clamp hanger, PX633-HANGER
6. Protective Tube (user provided)



7. Thread Connection, PX633-M20, other threads available

Nominal Cable lengths noted, tolerance is ± 0.5m/1.5ft