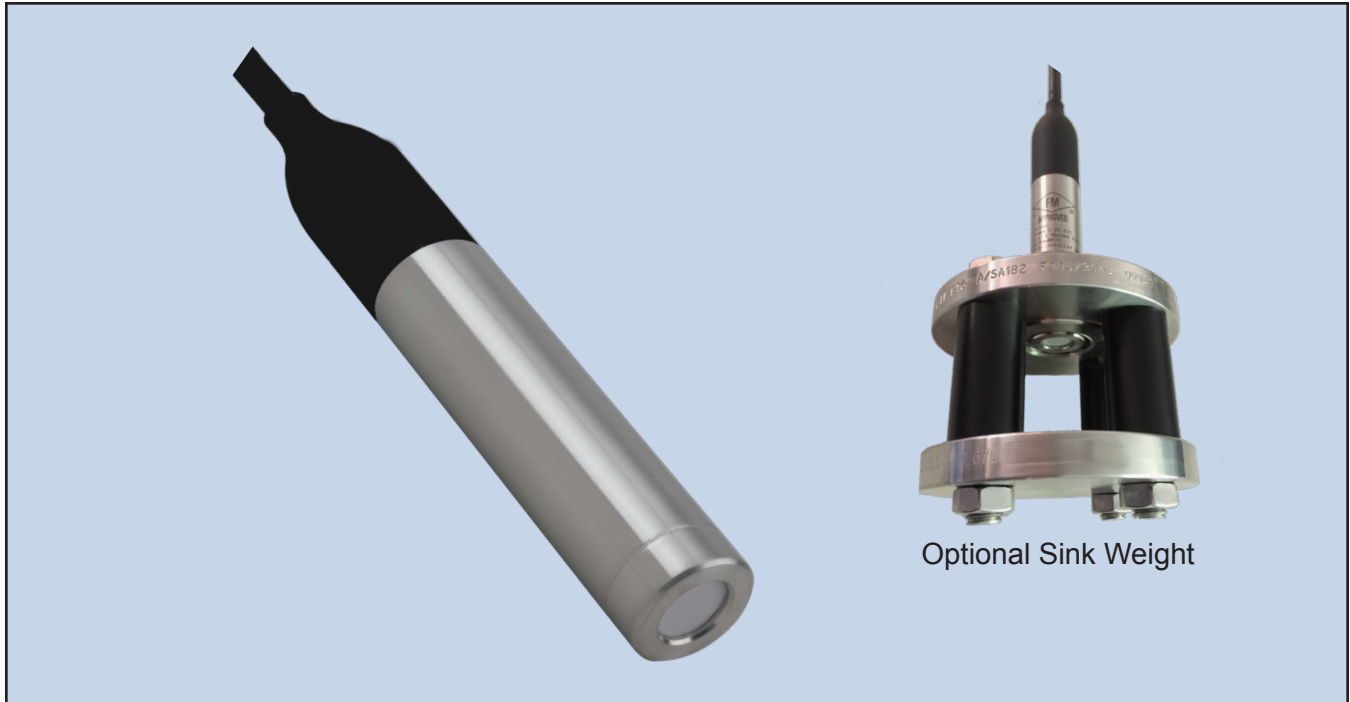


JOWA USA

Submersible Pressure Transmitter / PT2000 Series



• FEATURES

- Level Ranges from 10" WC to 346 ft (105m) H₂O (150psi)
- Accuracy of $\pm 0.1\%$ or $\pm 0.25\%$ FS
- Small Diameter, 1.0"
- Analog 4-20mA Output
- 316L Stainless Steel Construction (Titanium Optional)
- Intrinsic Safety Approved: Class I, Div. 1 Groups A - G
- An optional Sink Weight is available

The PT2000 Series pressure transmitters are designed for use in wastewater and pump/lift station applications. The ceramic sensing element provides a rugged flush open face design which avoids clogging or sludge build up from materials often encountered in wastewater.

The attached electrical cable is custom manufactured to specifications that includes Kevlar® members to prevent errors due to cable elongation as well as a unique water block feature that self-seals in the event of accidental cuts to the cable. The assembly is integrated with supporting electronics in a durable housing constructed of 316L Stainless Steel.

The optional Sink weight SW2000 was developed specifically for this sensor and is replaceable. This provides a "cage" sink weight/anchor for transmitters installed on the bottom of wastewater or sewage lift tanks. Easy installation of the sink-weight to be done by the customer.

Submersible Pressure Transmitter / PT2000 Series

Technical Data:

Operating Ranges:

Gauge: 10" - 150' (0.254 - 45M) H₂O

Excitation: 9 - 30 VDC

Pressure Containment:

Full scale ranges upto 20 psi: 10X

Full scale ranges above 20psi up to 150 psi: 4X

Pressure Media: Fluids compatible with SS316L or Titanium and Delrin® polyurethane.

Output Current: 4-20mA (two-wire configuration).

Zero Offset: ±0.20mA.

Temperature Limits:

Compensated: 30° to +85°F (-2° to 30°C)

Operating: -10° to +175°F (-20° to 80°C)

Temperature Effects:

High accuracy (±0.1%)

±0.3% TEB for ranges 5 psi and above

±1.0% TEB for ranges below 5 psi

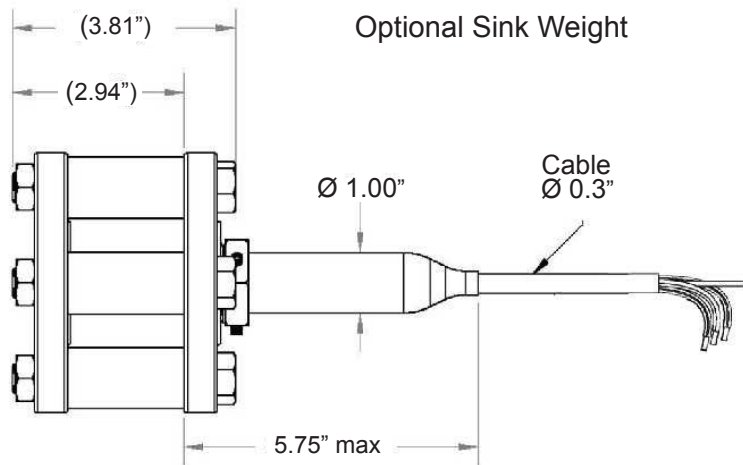
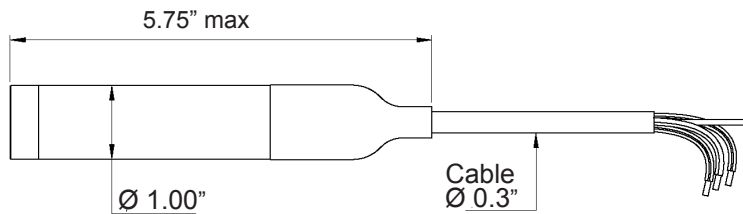
Standard accuracy (±0.25%)

±1.5% TEB for ranges 5 psi and above

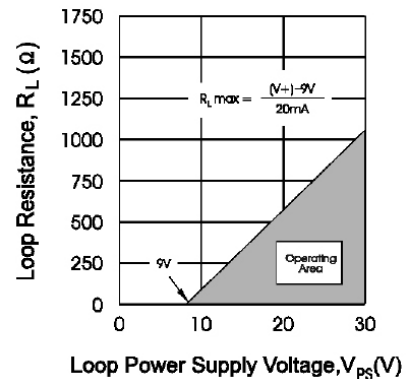
±2.0% TEB for ranges below 5 psi

Safety Classifications: These units are designed for installation in a Class I, Division 1, Groups A, B, C, and D, Class II, Division 1, Groups E, F and G, Class III, Division 1 hazardous location when connected to appropriate intrinsic safety barriers.

Dimensions: Inches (mm)



LOOP RESISTANCE vs. LOOP POWER SUPPLY



Electrical Connection:

Red Positive Supply
 Black Negative Supply
 Green Connected to Case

Disclaimer:

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