

# JOWA USA

## Submersible Pressure Transmitter / PT45T Series



### • FEATURES

- Level Ranges up to 692 ft (210 m) H<sub>2</sub>O (300psi)
- Accuracy of  $\pm 0.1\%$  or  $\pm 0.25\%$  FS
- Small Diameter, .725"
- Analog 4-20mA Output
- Titanium Construction
- Intrinsic Safety Approved: Class I, Div. 1 Groups A - G
- Absolute and Gauge versions are available

The PT45T Series pressure transmitters are designed for use in down-hole well monitoring and other submersible level gauging applications. All the Transducers utilize a highly accurate pressure sensor assembly specifically designed for hostile fluids and gases.

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 Titanium.

These units are designed for installation in a Class I, Division 1, Groups A - G, hazardous location when connected to intrinsic safety barriers.

# Submersible Pressure Transmitter / PT45 Series

## Technical Data:

### Operating Ranges:

Gauge: 5 - 692' (1.5 - 210M) H<sub>2</sub>O  
Sealed Gauge: 10 - 692' (3 - 210M) H<sub>2</sub>O  
Absolute: 35 - 692' (10 - 210M)

Excitation: 9 - 30 VDC

### Pressure Containment:

Full scale ranges upto 20 psi: 10X  
Full scale ranges above 20psi up to 150 psi: 4X  
Full scale ranges above 150 psi: 2X

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

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

**Zero Offset:** ±0.20mA.

### Temperature Limits:

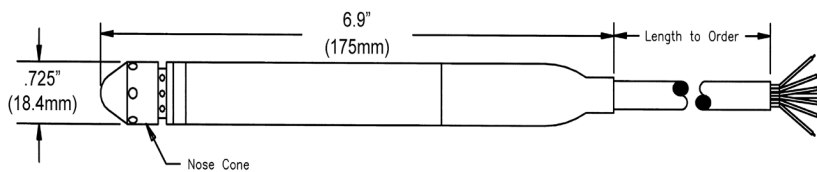
Compensated: 30° to +85°F (0° to 30°C)  
Operating: -5° to +175°F (-20° to 80°C)

### 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

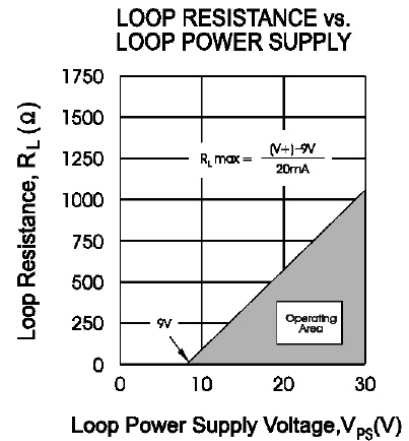
**Safety Classifications:** These units are designed for installation in a Class I, Division 1, Groups A, B, C, and D, Class II, Division 1, Groups E, F and G, Class III, Division 1 hazardous location when connected to appropriate intrinsic safety barriers.

## Dimensions: Inches (mm)



### Electrical Connection:

Red Positive Supply  
Black Negative Supply  
Green Connected to Case



### Disclaimer:

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