

## External Pressure Transmitter / PT5000S Series



- Stainless steel construction with Hastelloy diaphragm resists corrosion
- Excellent for marine and land-based applications including fresh water, fuel oil, heated fuel oil, and inert gas pressure
- Accuracy:  $\pm 0.2\%$ , Full Scale - Standard  
 $\pm 0.04\%$ , Full Scale - Premium
- Intrinsically Safe Approved:  
FM Exia Class I, Div. 1, Groups A, B, C & D  
and Class I, Zone 0 AEx/Ex ia Group IIC  
IECEX/ATEX 'ia' Group IIC
- Absolute and Gauge versions are available

JOWA USA's PT5000 Series pressure transmitters are designed for use in demanding level gauging and inert gas pressure applications. The fully welded 316L stainless steel pressure module ensures excellent media compatibility without compromising the performance of the micro-machined silicon pressure sensing element.

The PT5000 Series incorporates developments from aerospace applications and manufacturing advances to achieve excellent performance at competitive pricing.

The integral 2-wire, 4-20mA electronics provide power supply regulation, reverse polarity, overvoltage and EMC protection.

The transmitter features a compact, rugged design with field proven electronics to ensure long term reliable measurement.

# External Pressure Transmitter / PT5000S Series

## Technical Data:

**Operating Ranges:** 1 to 1000 PSI.

**Pressure Containment:** 4X full scale for vented gauge. 2900 psi for all absolute and sealed gauge ranges.

**Pressure Media:** Fluids compatible with 316L stainless steel and Hastelloy C276.

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

**Zero and Span Offset:**  $\pm 0.5\%$  full scale.

**Long Term Stability:**  $\pm 0.1\%$  full scale per year.

**Combined Non-linearity, Hysteresis and Repeatability:**  $\pm 0.2\%$  FS BSL maximum.

### Temperature Limits:

Process:  $-40^{\circ}$  to  $+176^{\circ}\text{F}$  ( $-40^{\circ}$  to  $80^{\circ}\text{C}$ )

Storage:  $-50^{\circ}$  to  $+185^{\circ}\text{F}$  ( $-45^{\circ}$  to  $85^{\circ}\text{C}$ )

Compensated:  $-4^{\circ}$  to  $+176^{\circ}\text{F}$  ( $-20^{\circ}$  to  $80^{\circ}\text{C}$ )

**Temperature Effects:**  $\pm 1.5\%$  full scale thermal error band maximum over compensated temperature range.

**Pressure Connection:** Depth Cone

**Electrical Connection:** 18 awg conductors within Polyurethane cable

**Ingress Protection:** IP 68.

### Factory Mutual Approvals:

Intrinsically safe (US & Canada) Exia Class I, Div 1, Groups A, B, C, D; and Class I, Zone 0 AEx/Exia Group IIc; Single Seal IECEx/ATEX Intrinsically Safe 'ia' Group I

### When ordering, specify model number:

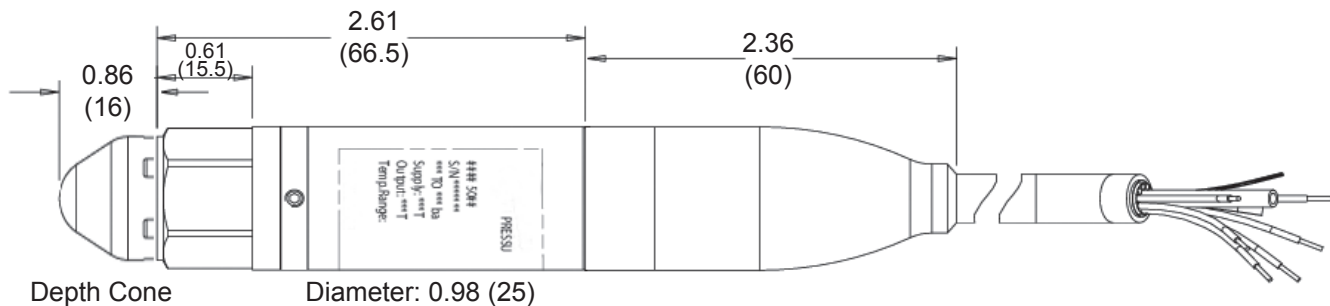
PT5000S.2G (Gauge) or PT5000S.2A (Absolute), length of polyurethane cable and desired pressure range.

## Dimensions: Inches (mm)

### Electrical Connection:

Red Positive Supply

White Negative Supply



### Disclaimer:

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