

External Pressure Transmitter / PT5000 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
- Depth and External mount options

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.

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

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

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

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

Pressure Connection: 1/4" NPT female (PE) or Depth Cone (PW)

Electrical Connection: 1/2" NPT male conduit fitting with cable (18 awg conductors). 3' of cable standard (C) or Polyurethane Depth (D)

Ingress Protection: C type designed to meet IP 65 when properly installed with conduit fitting connection. D type 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

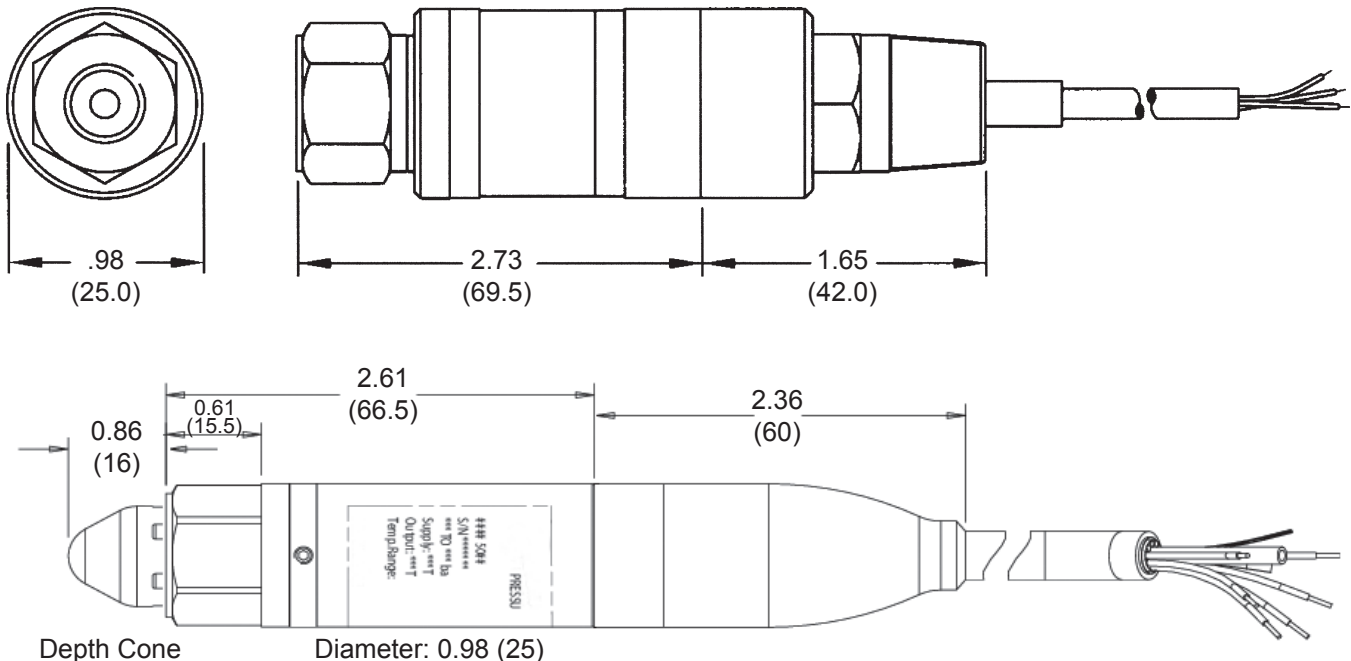
When ordering, specify model number:

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

Dimensions: Inches (mm)

Electrical Connection:

Red Positive Supply
White Negative Supply



Disclaimer:

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JOWA USA

JOWA USA, Inc.

59 Porter Road

Littleton, MA 01460-1431 USA

Tel: +1 978-486-9800 Toll free: 800-861-1560

Fax: +1 978-486-0170

E-mail: info@jowa-usa.com