

JOWA Consilium

External Pressure Transmitter / PT40 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: $\pm 0.25\%$, Full Scale
- Intrinsically Safe Approved: Class I, Div. 1
- Explosion-proof Class I, Div. 1
- Absolute and Gauge versions are available

JOWA Consilium's PT40 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 PT40 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 / PT40 Series

Technical Data:

Operating Ranges: 0 to 120 feet (36.5M). Deeper ranges are available; please consult factory.

Pressure Containment: 4X full scale for vented gauge. 2500 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: $\pm 0.2\%$ full scale per year.

Combined Non-linearity, Hysteresis and Repeatability: $\pm 0.25\%$ FS BSL maximum.

Temperature Limits:

Process: -40° to $+250^{\circ}\text{F}$ (-40° to 121°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: $\pm 2\%$ full scale thermal error band maximum over compensated temperature range.

Pressure Connection: 1/4" NPT female.

Electrical Connection: 1/2" NPT male conduit fitting with cable (18 awg conductors).

Ingress Protection: Designed to meet Nema 4X when properly installed with conduit fitting connection.

Voltage Spike Protection: Unit will withstand 600V spike test to ENV 50142 without damage applied between excitation lines and case.

Safety Classifications: UL intrinsically safe for Class I, Div 1, Groups A, B, C, D; Class II, Groups E, F, G. cUL intrinsically safe for Class I, Div 1, Groups A, B, C, D; Class II, Groups E, F, G.

Factory Mutual Approvals:

Intrinsically safe for Class I, Div 1, Groups A, B, C, D; Class I, Div 2, Groups A, B, C, D; Class II, Groups E, F, G; Class III for hazardous locations.

Explosion-proof:

Class I, Div 1, Groups A, B, C, D;

Class I, Div 2, Groups A, B, C, D; Class II, Groups E, F,

G; Class III for hazardous locations.

Canadian Standards Association (CSA) Approvals:

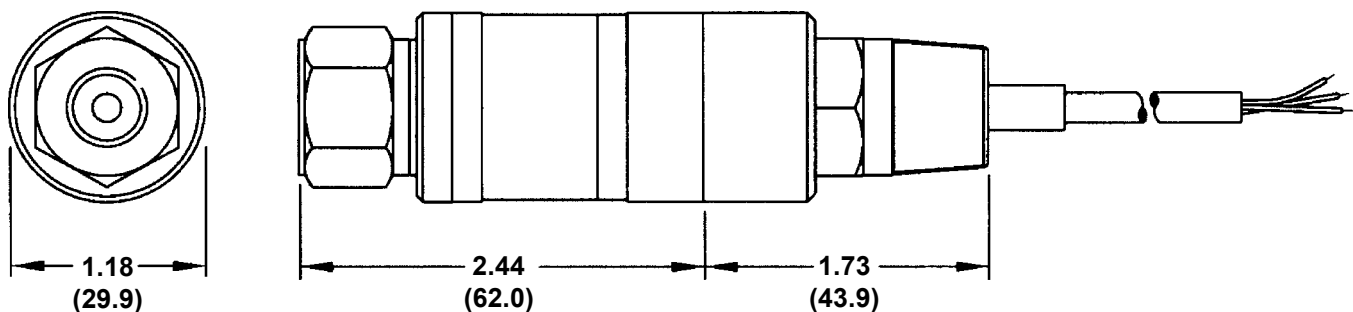
Intrinsically safe in hazardous locations as designed by Class I, Div 1, Groups A, B, C, D; Class I, Div 2, Groups A, B, C, D; Class II, Groups E, F, G, Class III.

Explosion-proof in hazardous locations as designed by Class I, Div 1, Groups A, B, C, D; Class I, Div 2, Groups A, B, C, D; Class II, Groups E, F, G, Class III.

When ordering, specify model number:

PT40S.25G (Gauge) or PT40S.25A (Absolute).

Dimensions: Inches (mm)



Electrical Connection:
Red Positive Supply
Black Negative Supply
Shield Connected to Case

Disclaimer:

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