

JOWA Consilium

Submersible Pressure Transmitter / PT90 Series



- All-titanium construction resists corrosion
- Excellent for aggressive marine and land-based applications including salt water and high solids liquids
- Grease filled and non-grease filled models
- Accuracy:
Grease filled $\pm 0.25\%$ Full Scale BSL
Non-grease filled $\pm 0.15\%$ Full Scale BSL
- 4-20mA output
- Intrinsically Safe Approved
- Kevlar reinforced, vented polyurethane cable for extra strength
- Absolute and Gauge versions available

JOWA Consilium's PT90 Series submersible pressure transmitters are designed specifically for aggressive applications. The all-titanium construction assures excellent life in the most hostile environments.

The PT90 Series features an advanced micro-machined silicon piezoresistive pressure sensor that is filled with grease and protected by a flexible cap providing excellent performance and resistance to shock, vibration and suspended solids. For applications where a grease filled sensor is not required, a more accurate, non-grease filled version is available.

A tough, polyurethane cable is molded to the transmitter body, providing a high integrity, waterproof assembly. The cable is strengthened with kevlar so that there is no measurable elongation.

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Technical Data:

Operating Ranges: Grease filled: 5, 10, 20, 40 feet of water; non grease filled: 5, 10, 20, 30, 60, 100, 150 feet of water. Deeper ranges are available; please consult factory.

Pressure Media: Fluids compatible with titanium and polyurethane

Combined Non-linearity, Hysteresis and Repeatability:
Grease filled: $\pm 0.25\%$ FS BSL;
Non grease filled: $\pm 0.15\%$ FS BSL

Temperature Effects: $\pm 1.5\%$ FS Thermal Error Band for ranges 5 psi and above

Resolution: Infinite

Insulation Resistance:
100 Megohms @500 Vdc

Operating Temperature Range:
 -5°F to $+140^{\circ}\text{F}$ (-20°C to 60°C)

Compensated Temperature Range:
 30°F to 86°F (-1°C to 30°C)

Electrical Characteristics:
2-wire, 4-20mA, 9-32 Vdc excitation

Sensor Body: Titanium

Measurement Diaphragm: Titanium

Electrical Connection: Vented polyurethane cable (specify length)

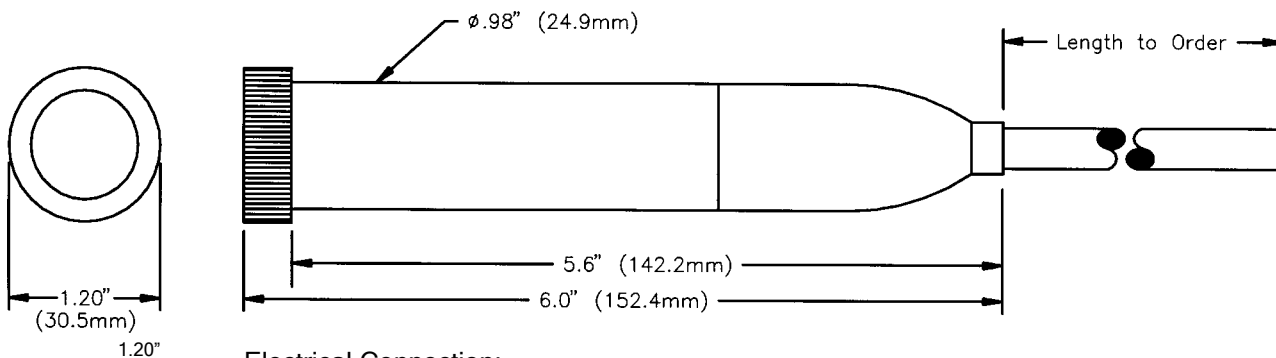
Safety:
UL, intrinsically safe; Class I, Div 1, Groups A,B,C,D
Class II, Groups E,F,G Certification Pending

Ingress Protection:
NEMA 6 (IP68)

When ordering please specify:

Grease filled Gauge	model PT90T.25G
Grease filled Absolute	model PT90T.25A
Non-grease filled Gauge	model PT90M.15G
Non-grease filled Absolute	model PT90M.15A

Dimensions: Inches (mm)



Electrical Connection:

Red	Positive Supply
Black	Negative Supply
Shield	Connected to Case

Disclaimer:

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