

JOWA USA

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 USA'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.

Submersible Pressure Transmitter / PT90 Series

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° 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)

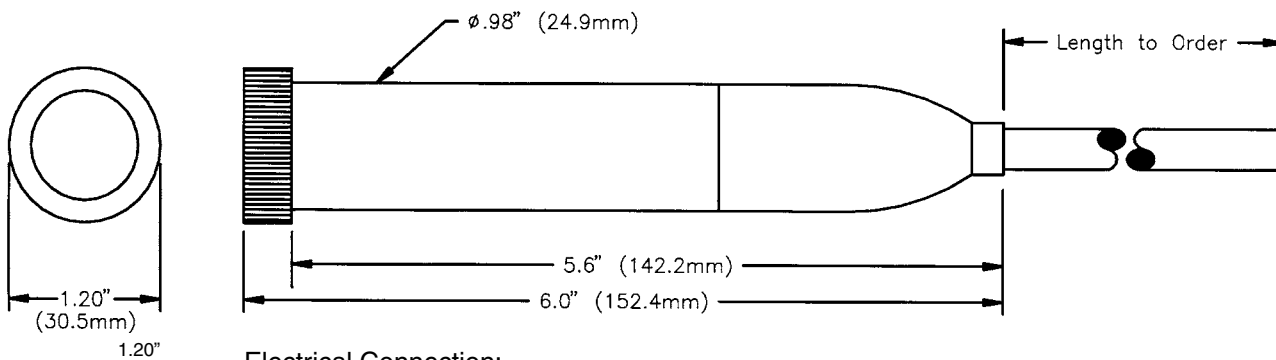
Safety:
UL, intrinsically safe; Class I, Div 1, Groups A,B,C,D
Class II, Groups E,F,G Certification Pending

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:

This is not a specification and all information is provided in good faith. Since conditions of use are beyond the control of JOWA USA, Inc., the information contained herein is without warranty, whether expressed, implied or otherwise. Final determination as to the suitability, merchantability or fitness of any information, material or product for a particular purpose, or any patent infringement, is the sole responsibility of the user. JOWA USA, Inc. does not assume liability for injury arising from the use of the information, material or product, and assumes no liability for any damages, whether direct, indirect, consequential, special, incidental, punitive or otherwise. For additional information regarding JOWA USA, Inc.'s limited warranty, refer to the Terms and Conditions that are currently in effect.

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