



PS-9 SERIES

PS98i SUBMERSIBLE PRESSURE TRANSMITTER



FEATURES

- Industry standard, two-wire, 4-20mA configuration
- Small diameter
- Improved noise immunity
- End cone option
- 316 stainless steel, Viton® and Teflon® construction
- Polyethylene, polyurethane and FEP Teflon® cable options
- Enhanced transient protection

INW's patented PS98i submersible pressure transmitter represents the latest in state-of-the-art level measurement technology. Building on years of successful experience, this industry standard two-wire, 4-20 mA device offers improved noise immunity, thermal performance and transient protection. In addition to reverse polarity protection, under-current and over-current limitation is featured on the transmitter channel.

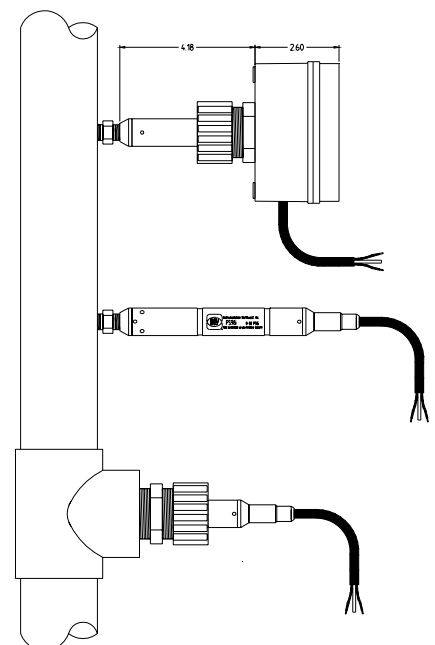
The updated cable harness design reduces the probability of leakage and protects the cable jacket from damage by providing double-sealing; 316 stainless steel, Viton® and Teflon® construction increases corrosion resistance. The transmitter's standard end cone is a 1/4" NPT inlet which allows for increased application use, easy hookup and field calibration. The modular-designed PS98i may be easily factory serviced and repaired.

OPERATION

The PS98i pressure transmitter is powered by a datalogger or control system. The internal electronic circuit controls the amount of current flowing through the loop based on the signal from the internal pressure sensor. An above-surface probe will draw 4 mA and once submerged, the current flow increases linearly with pressure (or depth). At full-scale pressure (depth), the transmitter will draw 20 mA. A data acquisition/or control system then measures this current and computes the pressure or level.

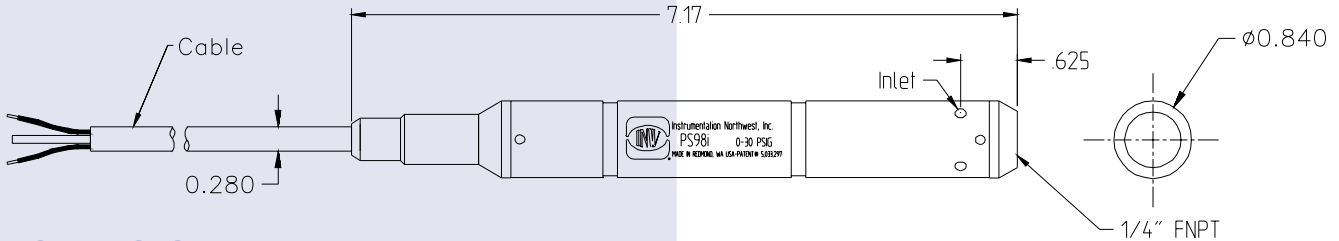
APPLICATIONS

Due to its rugged construction and proven reliability, the PS98i is used successfully to monitor groundwater, well, tank and tidal levels, as well as for pump testing and flow monitoring.



PS98i Installation Options

DIMENSIONS AND SPECIFICATIONS



HOW TO ORDER

- Choose the transmitter with the required pressure range.
- Determine cable type and specify length.

3C344	1 PSIG	3C264	50 PSIG
3C345	2.5 PSIG	3C265	50 PSIA
3C260	5 PSIG	3C266	100 PSIG
3C261	15 PSIG	3C267	100 PSIA
3C262	30 PSIG	3C268	300 PSIA
3C263	30 PSIA	3C269	300 PSIG
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6E540	Vented PU INW Cable		
6E543	Vented FEP INW Cable		
6E542	Vented HDPE INW Cable		
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6E405	End Cone (replaces 1/4" FNPT adapter)		

Information in this document is subject to change without notice.



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MECHANICAL

TRANSMITTER

Body Material	316 stainless steel
Wire Seal Materials	Viton® and Teflon®
Desiccant	High- and standard-capacity packs available
Terminating Connector	Available
Weight	.75 lbs.

CABLE

OD	0.28" maximum
Break Strength	138 lbs.
Maximum Length	2000 feet
Weight	4 lbs. per 100 feet

ELECTRICAL

Pressure

Transmitter Voltage	9-24 VDC 100 ms warmup
Static Accuracy (B.F.S.L. 25° C)*	±0.25% FSO (maximum) ±0.1% FSO (typical) <i>0.1% available on request.</i>
Thermal Error (0-50° C, reference 25° C)	±2.0% FSO (maximum) ±0.8% FSO (typical)
Maximum Zero Offset at 25° C	±0.5% FSO
Sensitivity Accuracy at 25° C	±0.25% FSO (maximum) ±0.125% FSO (typical)
Over Range Protection	2x (except 300 PSIA)
Compensated Temperature Range	0 - 50° C
Operating Temperature Range	-5° C to 70° C