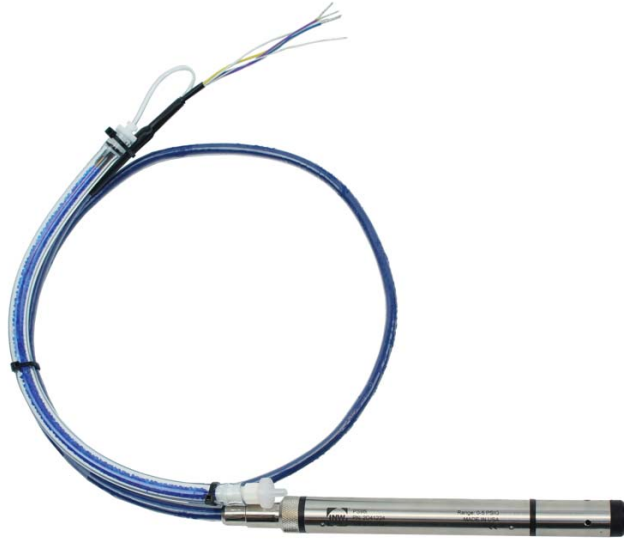


PS98i Submersible Pressure Transmitter

(4-20 mA)



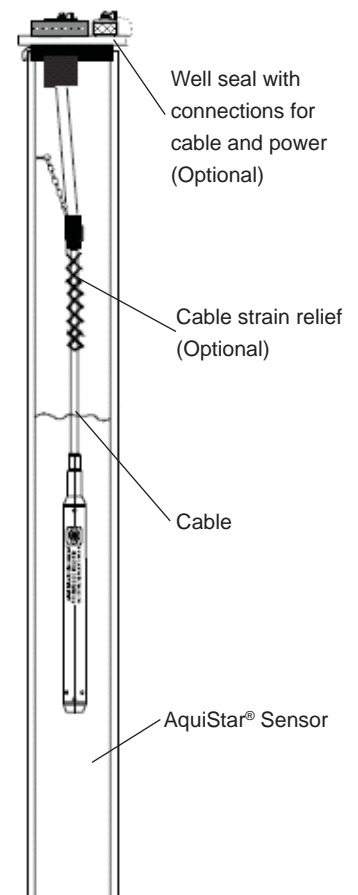
Rugged and accurate with great noise immunity, transient protection, and thermal performance

Features

- Pressure and optionally temperature
- Industry standard, 2-wire, 4-20 mA configuration
- Thermally compensated — *great where water temperatures vary*
- $\pm 0.25\%$ FSO accuracy
- Low power (9 - 24 VDC)
- Small diameter — 0.75" (1.9 cm)
- Reverse polarity protection
- Under- and over- current limitation
- Built-in transient protection
- Thermally stable
 - 2% over 50 degrees standard
 - 0.2% over 40 degrees with enhanced calibration option
- 1/4" NPT end cone adapter option
- Calibrated with patented calibration procedures and NIST traceable equipment

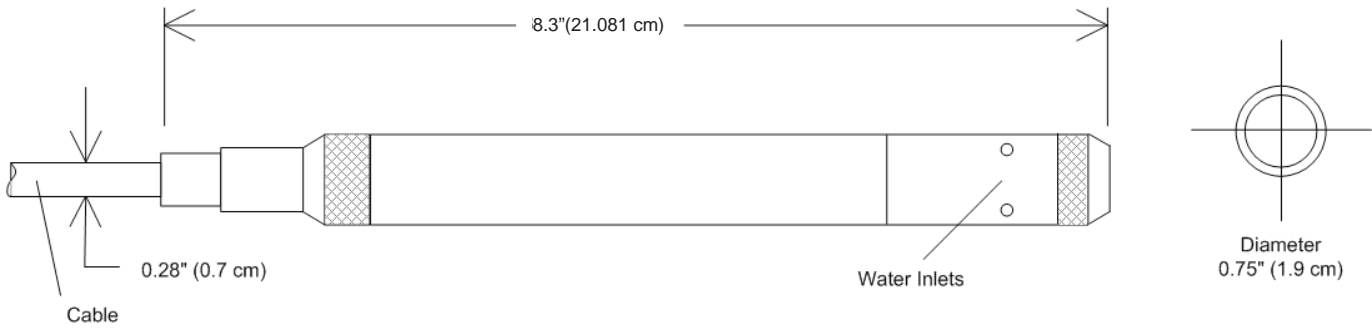
APPLICATIONS

Pump and slug tests
River, stream, reservoir gauging
Stormwater runoff monitoring
Wetland monitoring
Well, tank, tidal levels
Flow monitoring
Water resource management
Landfill leachate levels
Control applications



TYPICAL INSTALLATION

PS98i Submersible Pressure Transmitter (4-20 mA)



GENERAL

Length	8.3" (21.081 cm)
Diameter	0.75" (1.9 cm)
Weight	0.75 lb. (0.3 kg)
Body Material	Acetal & 316 stainless steel or titanium
Wire Seal Material	Fluoropolymer and PTFE
Submersible Cable	Polyurethane, polyethylene, or ETFE available
Desiccant	1-3 mm indicating silica gel (high or standard capacity)
Terminating Connector	Available
Output	4-20 mA
Operating Temp. Range	-5° C to 70° C

POWER

Transmitter Voltage	9-24VDC (100 ms warmup)
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1 Higher pressure ratings available upon request.
 2 Approx. 650 feet or 200 meters
 3 Depth range for absolute sensors has 14.7 PSI subtracted to give actual depth allowed.

TEMPERATURE

Element Type	Thermistor
Accuracy	± 0.3° C (typical) ± 0.75° C (maximum)
Range	-5° C to 70° C

PRESSURE

Transducer Type	Silicon strain gauge
Transducer Material	316 stainless steel or titanium
Pressure Ranges¹	
<i>Gauge</i>	
PSI	1, 5, 15, 30, 50, 100, 300
FtH ₂ O	2.3, 12, 35, 69, 115, 231, 692
mH ₂ O	0.7, 3.5, 10.5, 21, 35, 70, 210
<i>Absolute³</i>	
PSI	30, 50, 100, 300
FtH ₂ O	35, 81, 196, 658
mH ₂ O	10, 24, 59, 200
Static Accuracy (B.F.S.L. 20° C)	± 0.25% FSO (maximum)
Maximum Operating Pressure	1.1 x FS
Over Range Protection	3x FS (for >300psi, contact INW) ²
Burst Pressure	1000 psi (approx. 2000 feet or 600 meters)
Compensated Range	0° C to 50° C

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