

# PS9800 Submersible Pressure Transmitter

(4-20 mA)



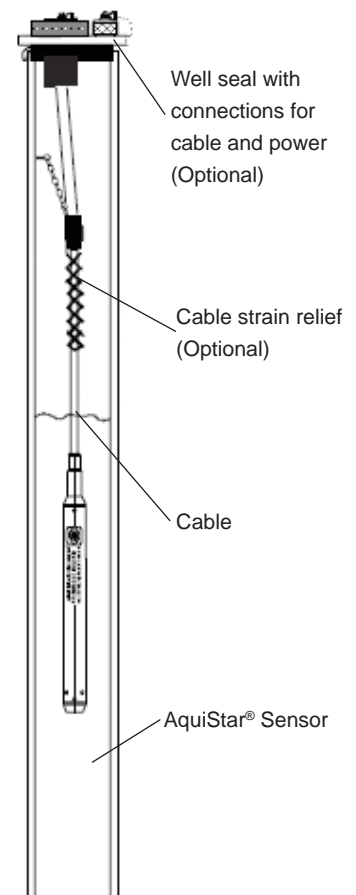
**Rugged and accurate with great noise immunity, transient protection, and thermal performance**

## Features

- Pressure and optionally temperature
- Industry standard, 2-wire, 4-20 mA configuration
- Thermally compensated — *great where water temperatures vary*
- $\pm 0.1\%$  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

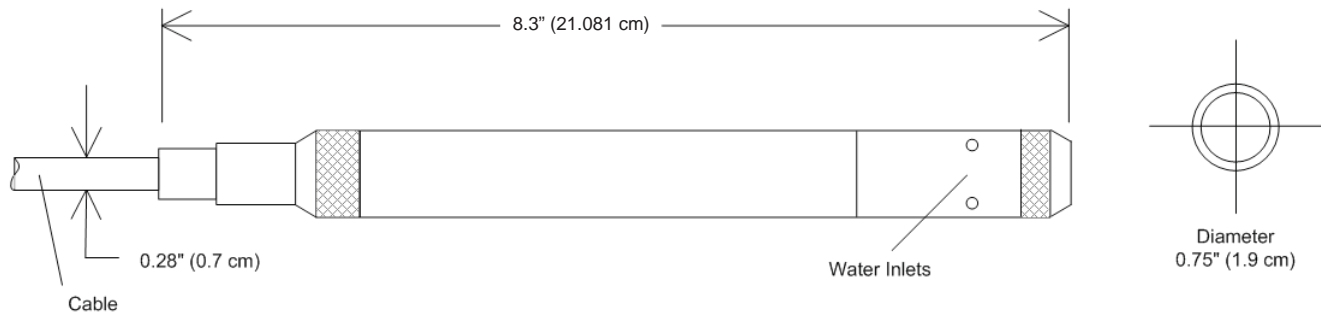
## APPLICATIONS

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**

## PS9800 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 FEP 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)
---------------------	-------------------------

<sup>1</sup> Higher pressure ratings available upon request

<sup>2</sup> Approx. 650 feet or 200 meters

<sup>3</sup> Depth range for absolute sensors has 14.7 PSI subtracted to give actual depth allowed.

<sup>4</sup>  $\pm 0.25\%$  FSO (maximum) at this range

### TEMPERATURE

Element Type	Thermistor
Accuracy	$\pm 0.3^\circ$ C (typical) $\pm 0.75^\circ$ C (maximum)
Range	-5° C to 70° C

### PRESSURE

Transducer Type	Silicon strain gauge
Transducer Material	316 stainless steel or titanium
Pressure Ranges <sup>1</sup>	
Gauge	
PSI	1 <sup>4</sup> , 5, 15, 30, 50, 100, 300
FtH <sub>2</sub> O	2.3 <sup>4</sup> , 12, 35, 69, 115, 231, 692
mH <sub>2</sub> O	0.7 <sup>4</sup> , 3.5, 10.5, 21, 35, 70, 210
Absolute <sup>3</sup>	
PSI	30, 50, 100, 300
FtH <sub>2</sub> O	35, 81, 196, 658
mH <sub>2</sub> O	10, 24, 59, 200
Static Accuracy (B.F.S.L. 20° C)	$\pm 0.1\%$ FSO (maximum)
Maximum Operating Pressure	1.1 x FS
Over Range Protection	3x FS (for > 300psi, contact INW) <sup>2</sup>
Burst Pressure	1000 psi (approx. 2000 feet or 600 meters)
Compensated Range	0° C to 50° C

### SALES & SERVICE

8902 122nd Avenue NE  
Kirkland, WA 98033 USA  
425-822-4434  
FAX 425-822-8384 / info@inwusa.com

1-800-PRO-WELL  
[WWW.INWUSA.COM](http://WWW.INWUSA.COM)

