

# PS9800

## 4-20mA SUBMERSIBLE PRESSURE TRANSMITTER



### 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

### Features

- Pressure (temperature optional)
- $\pm 0.1\%$  FSO accuracy
- Lower power (9-24Vdc)
- Small diameter—0.75" (1.9cm)
- 1/4" NPT end cone adapter option (300psi max.)

The **Seametrics PS9800** pressure transmitters are rugged and accurate with great noise immunity, transient protection, and thermal performance.

These pressure sensors have been designed to provide trouble-free submersible operation in liquid environments. Pressure is measured with an extremely rugged and stable piezo-electric, media isolated pressure element and calibrated with well established calibration procedures and NIST traceable equipment.

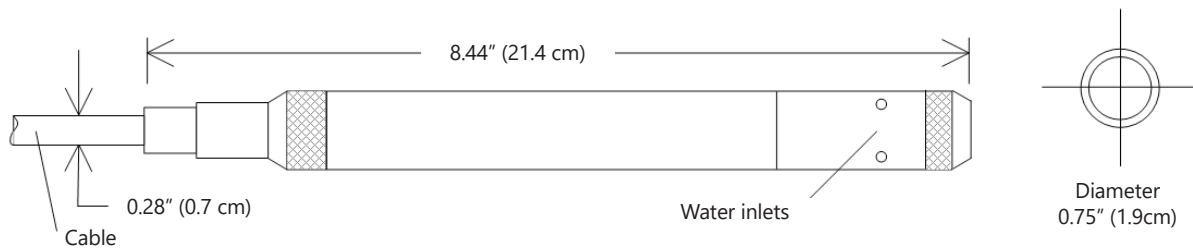
The PS9800 sensors are thermally compensated, making them great where water temperatures vary, as they are thermally stable (2% over 50 degrees standard).

These industry standard, 2-wire, 4-20mA devices offer reverse polarity protection, under- and over-current limitation, and built-in transient protection.

### Contact Your Supplier



## Dimensions



## Specifications

<b>Housing</b>	<b>Weight</b>	0.8 lb. (0.4 kg)	
	<b>Length</b>	8.44" (21.4 cm)	
	<b>Diameter</b>	0.75" (1.9 cm)	
	<b>Body Material</b>	Acetal and 316 stainless or optional titanium	
	<b>Wire Seal Material</b>	Fluoropolymer and PTFE	
<b>Cable</b>	<b>Cable</b>	Submersible: Polyurethane, polyethylene, or ETFE available	
	<b>Desiccant</b>	1-3 mm indicating silica gel	
	<b>Field Connector</b>	Available as an option	
<b>Operating Temperature Range</b>	Recommended: -5° to 70°C (23° to 158°F) Requires freeze protection if using in water below freezing.		
<b>Transmitter Voltage</b>	9-24Vdc (100ms warmup)		
<b>Output</b>	4-20mA		
<b>Output Channels</b>		<b>Temperature (optional)</b>	<b>Pressure</b>
	<b>Element</b>	Thermistor	Silicon strain gauge transducer, 316 stainless or Hastelloy
	<b>Accuracy</b>	±0.3°C (typical at 25°C) ±0.75°C (maximum at 25°C)	±0.1% FSO (static, B.F.S.L. 20°C)
	<b>Range</b>	0° to 50°C (32° to 122°F)	Gauge    PSI:    5, 15, 30, 50, 100, 300 FtH <sub>2</sub> O: 12, 35, 69, 115, 231, 692 mH <sub>2</sub> O:  3.5, 10.5, 21, 35, 70, 210  Absolute <sup>1</sup> PSI:    30, 50, 100, 300 FtH <sub>2</sub> O: 35, 81, 196, 658 mH <sub>2</sub> O:  10, 24, 59, 200
	<b>Compensated</b>	---	0° to 50°C (32° to 122°F)
<b>Max operating pressure</b>	1.1 x FS		
<b>Burst pressure</b>	3.0 x FS (for >300 psi (650ft, 200m) contact Seametrics representative)		
<b>Regulatory</b>	C E		

\*Specifications subject to change. Please consult our web site for the most current data (seametrics.com).  
<sup>1</sup> Depth range for absolute sensors has 14.7 PSI subtracted to give actual depth allowed.