

# Submersible Pressure/ Temperature Smart Sensor

## Seametrics PT12 Pressure Transmitter

Seametrics PT12 pressure transducers are designed to provide trouble-free submersible operation in liquid environments. PT12 features a rugged and stable piezo-electric media isolated pressure element that compensates for temperature using an onboard digital chip.

### FEATURES

- Modbus RTU (RS485) and SDI-12 v1.3 interfaces
- Small diameter – 0.75"
- Pressure and temperature
- Available titanium body
- Specification per OSW technical memo 96.05 option on 15 psig and 30 psig units
- Thermally compensated pressure measurements
- Optional end cone adapter for 300psi max operations

### APPLICATIONS

- Monitor groundwater, well, tank, and tidal fluctuations
- Pump testing
- Flow monitoring



**CALL GEOTECH TODAY (800) 833-7958**

**Geotech Environmental Equipment, Inc.**

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • **(800) 833-7958** • FAX (303) 322-7242

email: [sales@geotechenv.com](mailto:sales@geotechenv.com) website: [www.geotechenv.com](http://www.geotechenv.com)

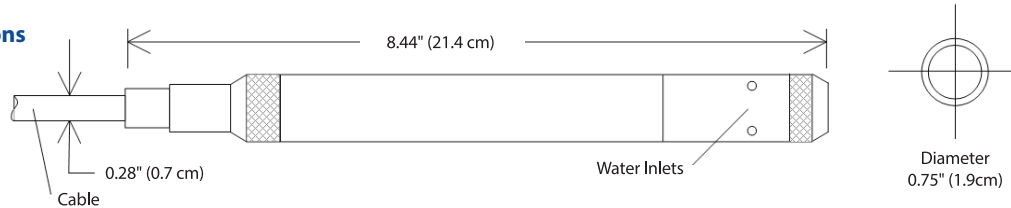
# Submersible Pressure/ Temperature Smart Sensor



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### SPECIFICATIONS

#### Dimensions



<b>Housing &amp; Cable</b>	<b>Weight</b>	0.8 lb. (0.4 kg)	
	<b>Body Material</b>	316 stainless or titanium	
	<b>Wire Seal Material</b>	Fluoropolymer and PTFE	
	<b>Cable</b>	Submersible: Polyurethane, polyethylene, or ETFE; 4 lb./100 ft., 1.8 kg/30 m; 2000 ft. max. for Modbus®	
	<b>Desiccant</b>	1-3 mm indicating silica gel	
	<b>Field Connector</b>	Available as an option	
<b>Temperature</b>	<b>Operating Range</b>	Recommended: -15° to 55°C (5° to 131°F) Requires freeze protection kit if using pressure option in water below freezing.	
	<b>Storage Range</b>	-40° to 80°C (-40° to 176°F)	
<b>Power</b>	<b>Voltage</b>	9-16V DC, 24V DC over voltage protection, electromagnetic & transient protection IEC-61000 – 4-3, 4-4, 4-5, 4-6	
	<b>Supply Current</b>	Active 3mA average/10mA peak; sleep 150 µA	
<b>Communication</b>	<b>Modbus®</b>	RS485 Modbus® RTU, output=32bit IEEE floating point	
	<b>SDI-12</b>	SDI-12 (ver. 1.3) – ASCII	
<b>Output Channels</b>	<b>Element</b>	Digital IC on board	<b>Depth/Level<sup>1</sup></b>
	<b>Accuracy</b>	±0.5°C — 0° to 55°C (32° to 131°F) ±2.0°C — below 0°C (32°F)	Silicon strain gauge transducer, 316 stainless or Hastelloy ±0.05% FSO (typical, static) ±0.1% FSO (maximum, static) (B.F.S.L. 20°C)
	<b>Resolution</b>	0.06°C	0.0034% FS (typical)
	<b>Range</b>	-15° to 55°C (5° to 131°F)	Gauge PSI: 1 <sup>2</sup> , 5, 7, 15, 30, 50, 100, 300 FtH <sub>2</sub> O: 2.3 <sup>2</sup> , 12, 35, 69, 115, 231, 692 mH <sub>2</sub> O: 0.7 <sup>2</sup> , 3.5, 5, 10.5, 21, 35, 70, 210
	<b>Compensated</b>	–	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
			0° to 40°C (32° to 104°F)
<b>Maximum Operating Pressure</b>	1.1 x full scale		
<b>Over Pressure Protection</b>	3x full scale up to 300psi – for > 300psi (650 ft. or 200 m) contact factory		
<b>Burst Pressure</b>	1000 psi (approx. 2000 ft. or 600 m)		
<b>Environmental</b>	IP-68, NEMA 6P		

\*Specifications subject to change. Please consult our web site for the most current data. Modbus is a registered trademark of Schneider Electric.

<sup>1</sup> Higher pressure ranges available upon request.

<sup>2</sup> ±0.25% accuracy FSO (max.) at this range.

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

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