

# Submersible Level Smart Sensor with Data Logging

## Seametrics LevelSCOUT

The LevelSCOUT Smart Sensor is a level and temperature sensor with internal logging. Constructed with rugged 316 stainless steel or titanium, the LevelSCOUT is an economical option for logging groundwater levels, tidal fluctuations, and pump or slug tests. The LevelSCOUT is an absolute sensor that can be paired with the BaroSCOUT for barometric pressure compensation. The sensor is easily programmed and monitored using Aqua4Plus software.

### FEATURES

- **Measures/Records level, temperature, and time**
- **Thermally compensated** — great where water temperatures vary, such as in streams or industrial tank applications
- **Small diameter** — 0.875" (2.22 cm)
- **Low power** — 4.5 year battery life
- **316 stainless steel, fluoropolymer, and acetal construction** (titanium optional)
- **Modbus® RTU protocol** — for great flexibility
- **Non-volatile memory** — your data will not be lost in the event of a power failure
- **Delayed start feature** — state a specific future start time, making it easy to set several sensors to start at the same time
- **Field-serviceable cable connectors** — easily remove the connector, route cable through well seals, walls, or conduit, and then replace connector
- **Barometric compensation utility**
- **Free, easy-to-use Aqua4Plus software**

### APPLICATIONS

- Site assessments
- Tidal studies
- Environmental monitoring
- Surface water discharge monitoring
- Aquifer level monitoring
- Aquifer storage & recovery



Seametrics LevelSCOUT  
Cabled Version

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

**Geotech Environmental Equipment, Inc.**

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### SPECIFICATIONS

#### GENERAL

Length (cabled version)	6.6" (16.7 cm)
Length (cableless version)	5.1" (12.9 cm)
Diameter	0.875" (2.22 cm)
Body Material	316 stainless steel or grade 2 titanium
Wetted Materials	316 stainless steel or grade 2 titanium, acetal, fluoropolymer
Communication	RS485 Modbus® RTU
Direct Modbus Read Output	32-bit IEEE floating point
Internal Math	32-bit floating point
Operating Temp. Range	-20°C to 60°C
Storage Temp. Range	-40°C to 80°C
Regulatory	CE

#### LOGGING

Memory	50,000 records
Logging Rate	1x per second
Software	Complimentary Aqua4Plus
File Formats	.csv/.a4d

#### POWER

Internal Battery	One 1/2 AA 3.6 lithium battery
Expected Battery Life	4.5 years (depending on use)

#### TEMPERATURE

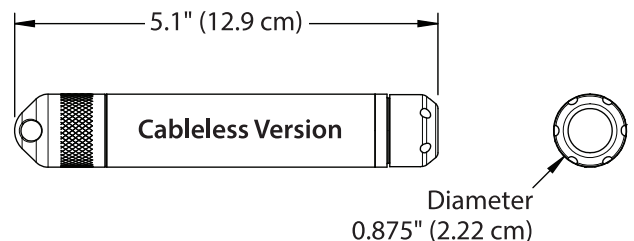
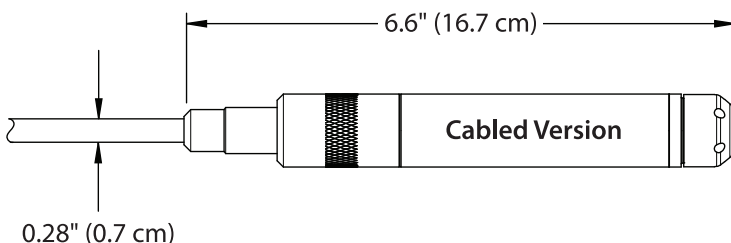
Element Type	Thermistor
Accuracy	±0.1°C (from -20°C to 60°C)
Resolution	0.01°C
Units	Celsius, Fahrenheit, Kelvin

#### PRESSURE (Level)

Transducer Type	Silicon strain gauge	
Transducer Material	316 stainless steel or Hastelloy® C276	
Ranges	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
Units	PSI, FtH <sub>2</sub> O, inH <sub>2</sub> O, cmH <sub>2</sub> O, mmH <sub>2</sub> O, mH <sub>2</sub> O, inHg, cmHg, mmHg, Bars, mBars, kPa	
Accuracy	±0.05% FS (@ 20°C) ±0.10% FS (0°C to 40°C)	
Resolution	0.0034% FS (typical)	
Max. Operating Pressure	1.1 x FS	
Over Range Protection	3x FS (for >300 psi <sup>2</sup> , 1.75 FS)	
Burst Pressure	600 psi (approx. 1350 ft. or 410 m)	

<sup>1</sup> Depth range has 15 psi subtracted to give actual depth allowed.

<sup>2</sup> Approx. 658 feet or 200 meters



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