

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 2.0 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 2.0 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 2.0 |
| 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

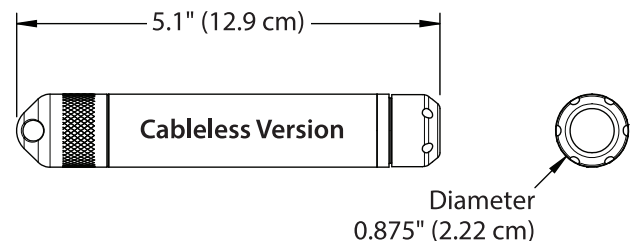
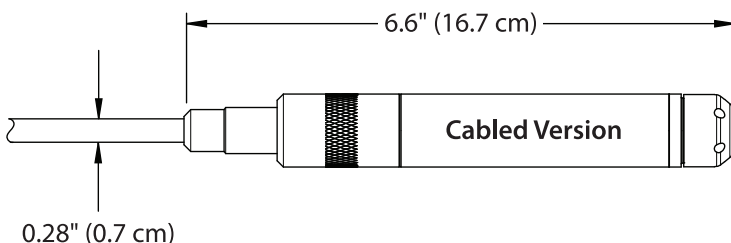
| | |
|--------------|-----------------------------|
| Element Type | Thermistor |
| Accuracy | ±0.1°C (from -20°C to 60°C) |
| Resolution | 0.01°C |
| Units | Celsius, Fahrenheit, Kelvin |

PRESSURE (Level)

| | | |
|-------------------------|--|------------------|
| Transducer Type | Silicon strain gauge | |
| Transducer Material | 316 stainless steel or Hastelloy® C276 | |
| Ranges | Absolute ¹ | |
| | PSI | 30, 50, 100, 300 |
| | FtH ₂ O | 35, 81, 196, 658 |
| | mH ₂ O | 10, 24, 59, 200 |
| Units | PSI, FtH ₂ O, inH ₂ O, cmH ₂ O, mmH ₂ O, mH ₂ 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 ² , 1.75 FS) | |
| Burst Pressure | 600 psi (approx. 1350 ft. or 410 m) | |

¹ Depth range has 15 psi subtracted to give actual depth allowed.

² Approx. 658 feet or 200 meters



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