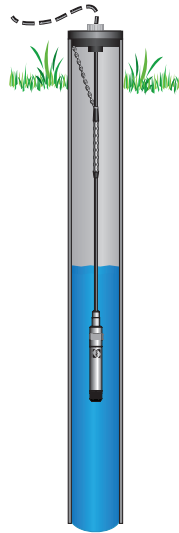


**INW LevelSCOUT**  
SUBMERSIBLE LEVEL/TEMPERATURE  
SMART SENSOR



**APPLICATIONS**

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

**Features**

- Measures/Records level and temperature
- Low power — 4.5 year battery life
- Modbus® RTU (RS485)
- ± 0.05% FS accuracy
- Small diameter — 0.875" (2.22 cm)
- 50,000 record non-volatile memory
- Wireless connectivity
- Barometric compensation utility
- Free, easy-to-use software

The **INW LevelSCOUT** Smart Sensor is an integrated datalogger and level/temperature sensor and is ideal for site assessments, tidal studies, environmental monitoring, surface water discharge measurement, and aquifer level monitoring, as well as aquifer storage and recovery. This sensor networks with all of the INW Smart Sensor family. Its compatibility with INW's Wireless Data Collection technology makes it ideal for remote monitoring.

This industry standard digital RS485 interface device records up to 50,000 records of level, temperature, and time data, operates with low power, and features easy-to-use software with powerful features. Constructed with 316 stainless steel, acetal, and Viton®, this sensor provides high-accuracy readings in rugged and corrosive field conditions.

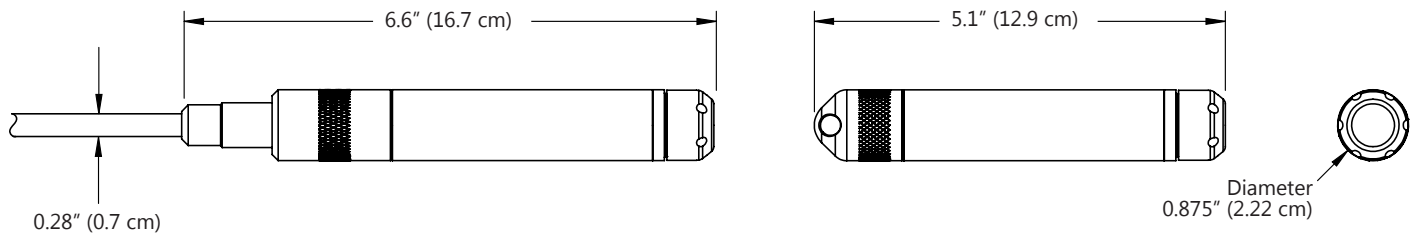
The LevelSCOUT is an absolute sensor, requiring no vent tubes, desiccant, or bellows. It can be paired with a BaroSCOUT barometric sensor and used with the Aqua4Plus Barometric Compensation Utility to adjust the LevelSCOUT readings for current atmospheric pressure.

A 1/2 AA 3.6v lithium battery powers the LevelSCOUT. The unit is programmed using INW's easy-to-use Aqua4Plus Lite or Aqua4Plus control software. Once programmed the unit will measure and collect data at the time interval programmed.

While most will use the LevelSCOUT with INW's Aqua4Plus Lite or Aqua4Plus software, it is by no means limited to that software. You can use your own Modbus® RTU software or logging equipment to read measurements via RS485, tying into your existing systems and data bases.

**Contact Your Supplier**





**GENERAL**

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

**LOGGING**

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

**POWER**

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

**TEMPERATURE**

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

**PRESSURE (LEVEL)**

<b>Transducer Type</b>	Silicon strain gauge
<b>Transducer Material</b>	316 stainless steel
<b>Ranges</b>	
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>Units</b>	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
<b>Accuracy</b>	± 0.05% FS (@ 20° C) ± 0.10% FS (0° C to 40° C)
<b>Resolution</b>	0.0034% FS (typical)
<b>Maximum Operating Pressure</b>	1.1 x FS
<b>Over Range Protection</b>	3x FS (for >300 psi <sup>2</sup> , 1.75 FS)
<b>Burst Pressure</b>	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