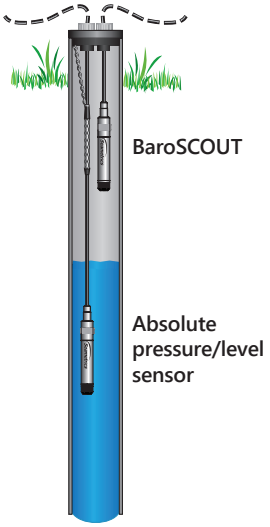
BaroSCOUT

BAROMETRIC/TEMPERATURE SMART SENSOR



APPLICATIONS

Barometrically compensate absolute pressure sensors for level measurement—no desiccant tubes, bellows, or vent tubes needed!

Supplement aquifer test data in leaky or confined conditions

Features

- Measures/Records barometric pressure and temperature
- Low power — 3 year battery life
- Replaceable battery
- Modbus® RTU (RS485)
- ± 0.05% FS accuracy
- Small diameter — 0.875" (2.22 cm)
- 50,000 record non-volatile memory
- Barometric compensation utility
- Free new Aqua4Plus 2.0 software

Contact Your Supplier

The **Seametrics BaroSCOUT** Smart Sensor is designed to measure barometric pressure, along with temperature. It is an ideal companion to our absolute pressure/level sensors and can be used to adjust their readings for atmospheric pressure.

This industry standard digital RS485 interface device records up to 50,000 records of pressure, temperature, and time data, operates with low power, and features easy-to-use Aqua4Plus 2.0 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 BaroSCOUT utilizes an extremely rugged and stable piezo-electric media-isolated pressure element combined with a 16-bit analog-to-digital converter. This provides extremely accurate and stable pressure input into the microprocessor on the circuit board that measures the pressure and stores the data in non-volatile memory.

A replaceable 1/2 AA 3.6v lithium battery powers the BaroSCOUT. The unit is programmed using our easy-to-use control software. Once programmed the unit will measure and collect data at the time interval programmed.

While most will use the BaroSCOUT with Seametrics' Aqua4Plus 2.0 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 telemetry and control systems.

Note: The BaroSCOUT is intended for use in atmosphere—not to be submerged.

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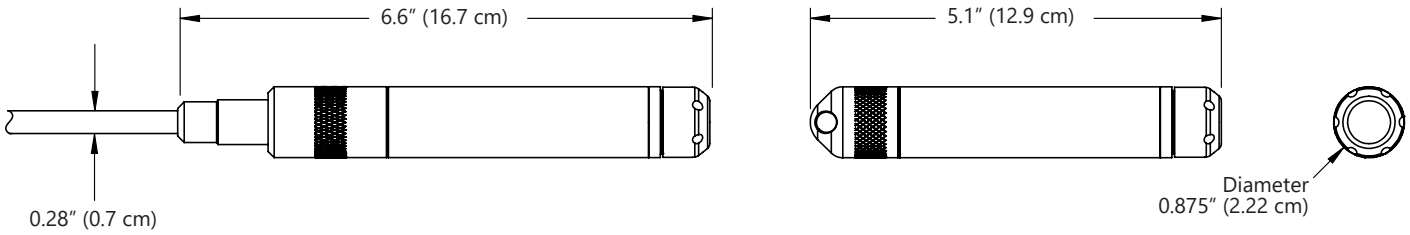
BAROMETRIC/TEMPERATURE SMART SENSOR



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
Wetted Materials	316 stainless steel, 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 replaceable 1/2 AA 3.6V lithium battery
Expected Battery Life	3 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

Transducer Type	Silicon strain gauge
Transducer Material	316 stainless steel
Units	PSI, FtH_2O, inH_2O, cmH_2O, mmH_2O, mH_2O, inHg, cmHg, mmHg, Bars, mBars, kPa
Accuracy	± 0.008 PSI (0.55 mbar) *(@ 20° C)* ± 0.02 PSI (1.34 mbar) (@ -20° C to 60° C)
Resolution	0.01% FS *(typical)*

NOTE: Intended for use in atmosphere—not to be submerged.

User is responsible for reviewing end use application with their supplier for product suitability.

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