BaroSCOUT 2X

BAROMETRIC PRESSURE/TEMPERATURE SMART SENSOR

Seametrics
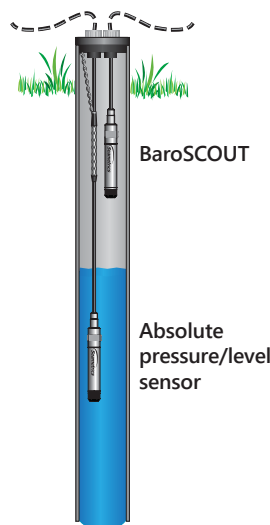

BaroSCOUT

Absolute
pressure/level
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 — 4.4 year battery life

- Replaceable battery

- Modbus® RTU (RS485) & SDI-12

- ± 0.05% FS accuracy

- Small diameter — 0.875" (2.22 cm)

- 100,000 record non-volatile memory

- Barometric compensation utility

- Double O-rings for added protection

- Free new Aqua4Plus 2.0 software

Contact Your Supplier

The **Seametrics BaroSCOUT 2X** 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 100,000 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 2X 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 2/3 AA 3.6v lithium battery powers the BaroSCOUT 2X. 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 2X with Seametrics' Aqua4Plus 2.0 software, it is by no means limited to that software. You can use your own software or logging equipment to read measurements via RS485 and/or SDI-12, tying into your existing telemetry and control systems.
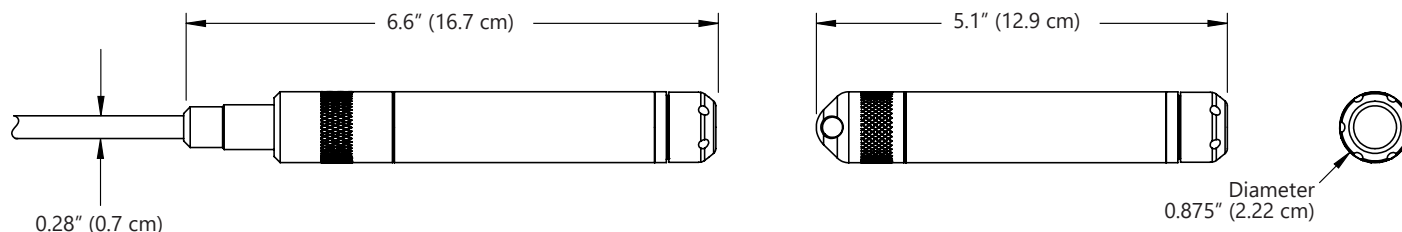
Note: The BaroSCOUT 2X is intended for use in atmosphere—not to be submerged.

BaroSCOUT 2X
BAROMETRIC PRESSURE/TEMPERATURE SMART SENSOR

Seametrics

6.6" (16.7 cm)

0.28" (0.7 cm)

5.1" (12.9 cm)

Diameter
0.875" (2.22 cm)

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, Viton®
Communication	RS485 Modbus® RTU & SDI-12
Direct Modbus Read Output	32-bit IEEE floating point
Internal Math	32-bit floating point
SDI-12	(ver.1.3) - ASCII
Operating Temp. Range	-20° C to 60° C
Storage Temp. Range	-40° C to 80° C
Regulatory	CE

LOGGING

Memory	100,000 records
Logging Rate	Configurable down to 1/second
Software	Complimentary Aqua4Plus 2.0
File Formats	.csv / .a4d

POWER

Internal Battery	One replaceable 2/3 AA 3.6V lithium battery
Expected Battery Life	4.4 years *(at 4 readings per hour)*

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$_2$O, inH$_2$O, cmH$_2$O, mmH$_2$O, mH$_2$O, 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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