Multi-Parameter
SMART SENSOR WITH DATA LOGGING

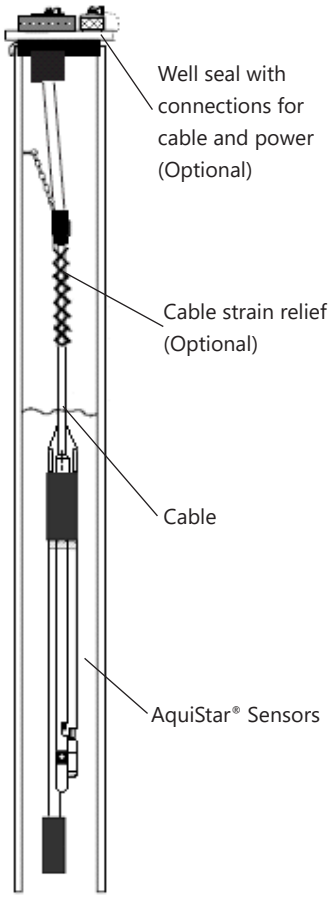
APPLICATIONS

- Surface water monitoring
- Groundwater monitoring
- Agricultural runoff studies
- Discharge monitoring
- Aquaculture
- Leachate monitoring
- Remediation performance monitoring
- Waste water treatment discharge

Features

- Measures pH, ORP, temperature, conductivity, salinity, TDS, pressure level, and dissolved oxygen or turbidity (depending on configuration)
- Modbus® and SDI-12 interface for greater flexibility
- Non-volatile memory
- RS485 network — connect with other Seametrics AquiStar® Smart Sensors
- Wireless connectivity — radios and/or cellular
- Flexible, Windows®-based programming
- Real time viewing
- Easy export to spreadsheets and databases
- Direct read option — use with panel meters or RTU/PLC applications
- Polyethylene, polyurethane, and FEP cable options
- Fits in 2" (5.1 cm) well

Contact Your Supplier



TYPICAL INSTALLATION

Multi-Parameter
SMART SENSOR WITH DATA LOGGING

MECHANICAL

ADAPTER

Material	Acetal
Strain relief	Included

SENSOR TUBES

Tube Material	316 stainless steel or titanium
Wire Seal Materials	Fluoropolymer and PTFE

CABLE

OD	0.28" (0.7 cm) maximum
Break Strength	138 lbs. (62.7 kg)
Maximum Length	2000 feet (610 meters)
Weight	4 lbs. per 100 feet (1.8 kg / 30 m)

GENERAL

COMMUNICATION

Communication	RS485 Modbus RTU SDI-12 (ver.1.3)
Direct Modbus Read Output	32-bit IEEE floating point
SDI-12 Output	ASCII
Internal Math	32-bit floating point

POWER

External	12 VDC nominal / 9-15VDC range

RANGE, RESOLUTION, ACCURACY

	RANGE	RESOLUTION	ACCURACY
Level/Pressure		16 bit	± 0.05% FSO typical ± 0.1% FSO maximum (B.F.S.L. 20° C)
Absolute PSIA	100 PSI		
Absolute mH_2O	70 mH_2O		
Absolute FtH_2O	231 FtH_2O		
Conductivity	0-100 mS/cm	0.001 mS/cm	± 0.5% of measured value
Salinity	2-42 PSU	0.001 PSU	± 1% of reading or 0.1 PSU whichever is greater
TDS	4.9 - 147,000 mg/L	0.1 mg/L	± 0.5% of measured value
pH	1-14 pH units	0.01 pH units	± 0.2 pH units
ORP	± 1200 mV	0.01 mVH	0.1 mVH
Dissolved Oxygen	0-25 ppm	0.01 ppm when <4.00 ppm 0.1 ppm when >4.00 ppm	1% of reading or 0.02 ppm whichever is greater
Turbidity	0-400 or 0-3000 NTU	± 3 NTU	± 2% @ 25° C or ± 2 NTU whichever is greater
Temperature	-5˚ to 40˚C (23˚ to 104˚F)	0.1° C	± 0.5° C

CONFIGURATIONS - Available in five standard options.

	OPTION ONE P/N 2L31000	OPTION TWO P/N 2L31006	OPTION THREE P/N 2L31004	OPTION FOUR P/N 2L31002	OPTION FIVE P/N 2L31008
Level/Pressure	√	√	√	√	√
Conductivity/Salinity/TDS	√	√	√	√	√
pH/ORP			√	√	√
Dissolved Oxygen	√			√	
Turbidity		√	√		
Temperature	√	√	√	√	√

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

Seametrics • 19026 72nd Avenue South • Kent, Washington 98032 • USA
(P) 253.872.0284 • (F) 253.872.0285 • 1.800.975.8153 • seametrics.com

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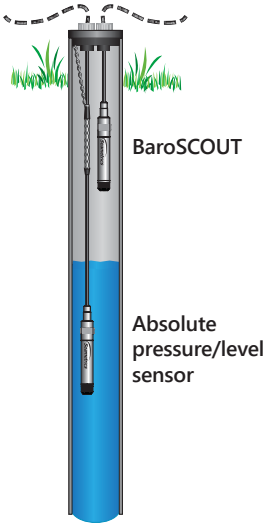
BaroSCOUT 2X

BAROMETRIC PRESSURE/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 — 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.

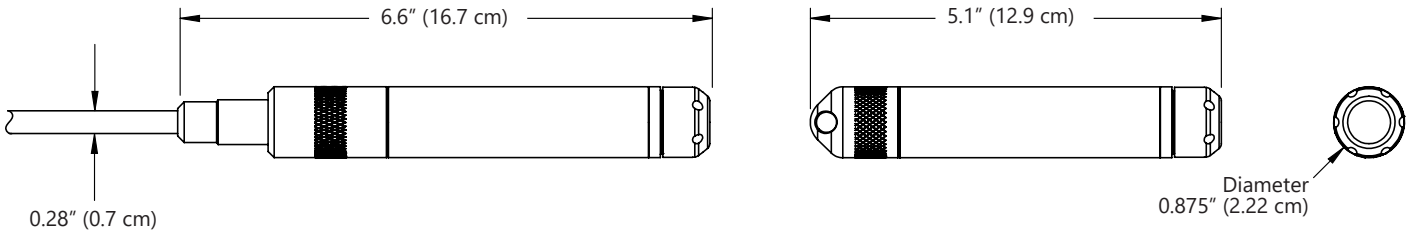
A replaceable 2/3 AA 3.6v lithium battery powers the BaroSCOUT 2X. The unit is programmed using our easy-to-use control software. Once programmed the unit will measure and collect data at the time interval programmed.

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



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_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.

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