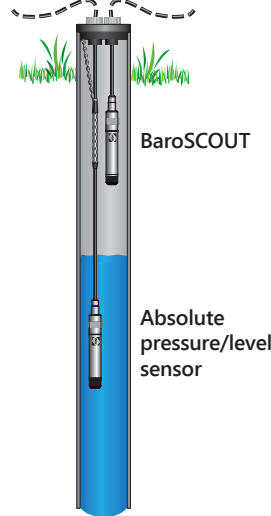


INW BaroSCOUT
BAROMETRIC/TEMPERATURE
SMART SENSOR



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 — 4 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 BaroSCOUT** Smart Sensor is designed to measure barometric pressure, along with temperature. It is an ideal companion to INW's 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 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.

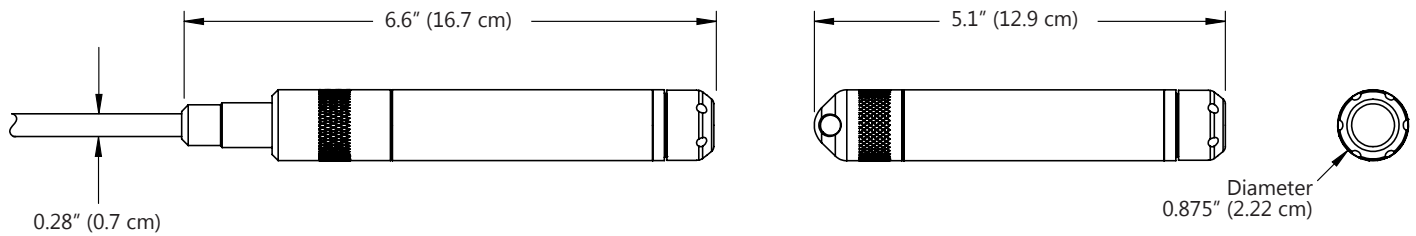
A 1/2 AA 3.6v lithium battery powers the BaroSCOUT. The unit is programmed using INW's easy-to-use Aqua4Plus Lite or Aqua4Plus control software. Once programmed the unit will measure and collect data at the time interval programmed.

While most will use the BaroSCOUT 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.

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

Contact Your Supplier





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 C E

LOGGING

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

POWER

Internal Battery	One 1/2 AA 3.6 lithium battery
Expected Battery Life	4 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 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.