

HydroSCOUT

Submersible Level/Temperature Smart Sensor

WITH DATA LOGGING



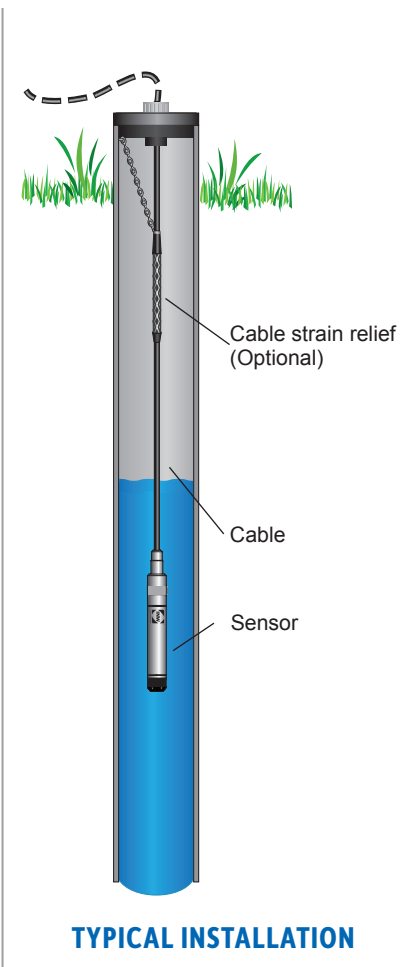
APPLICATIONS

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

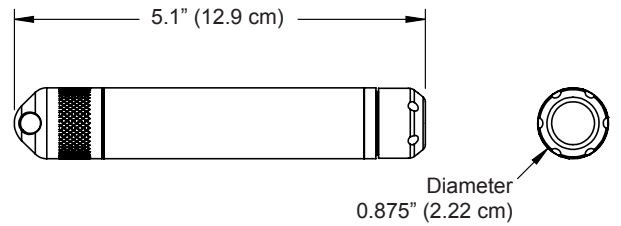
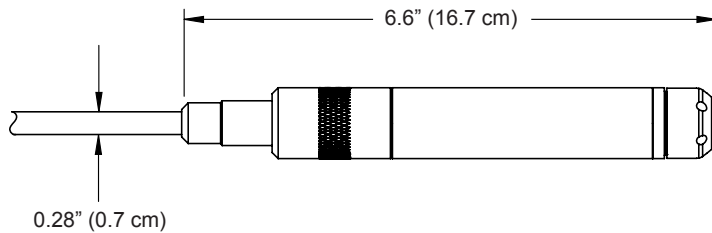
Great almost anywhere you need to measure level and temperature – whether it be in a lake, a tank, or a well

Features

- Measures and records level and temperature
- Low power — *4.5 year battery life*
- Modbus® RTU (RS485) — *great flexibility*
- $\pm 0.05\%$ FS accuracy
- Small diameter — 0.875" (2.22 cm)
- 50,000 record non-volatile memory — *no data loss in the event of a power failure*
- Wireless connectivity
- Barometric compensation utility
- Free, easy-to-use software



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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 or titanium
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

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	4.5 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 (LEVEL)

Transducer Type	Silicon strain gauge
Transducer Material	316 stainless steel
Ranges	
<i>Absolute</i> ¹	
PSI	30, 50, 100, 300
FtH ₂ O	35, 81, 196, 658
mH ₂ O	10, 24, 59, 200
Units	PSI, FtH ₂ O, inH ₂ O, cmH ₂ O, mmH ₂ O, mH ₂ O, inHg, cmHg, mmHg, Bars, mBars, kPa
Accuracy	± 0.05% FS (@ 20° C) ± 0.10% FS (0° C to 40° C)
Resolution	0.0034% FS (typical)
Maximum Operating Pressure	1.1 x FS
Over Range Protection	3x FS (for >300 psi ² , 1.75 FS)
Burst Pressure	600 psi (approx. 1350 ft or 410 m)

¹Depth range has 15 PSI subtracted to give actual depth allowed.

²Approx. 658 feet or 200 meters

SALES & SERVICE

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