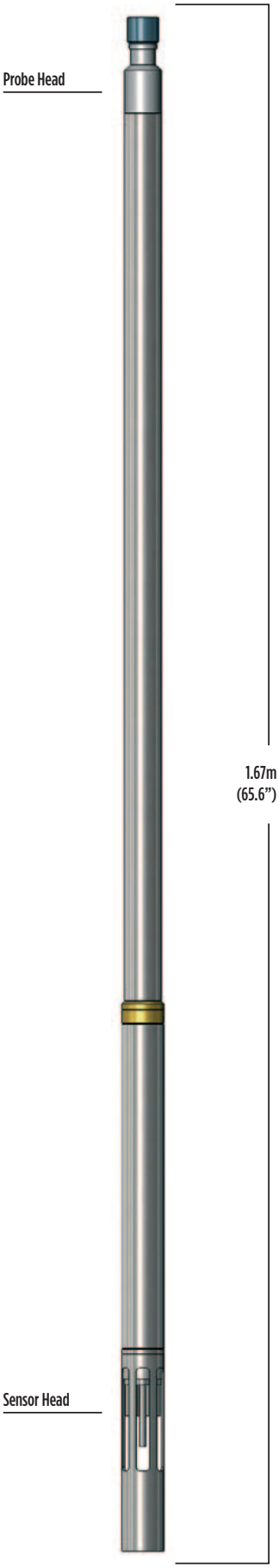
PROBES

WATER QUALITY



Water Quality Probe

The Water Quality probe is based on the industry-standard Ocean Seven 310™ Borehole probe manufactured by Idronaut Srl.

The tool is available in 'saline' and 'fresh-water' versions with different conductivity ranges and available measurements. The probe enables a rapid, continuous profile to be taken of all the selected parameters throughout the borehole either for direct use or as a guide for subsequent sampling.

Principle of Measurement:

The probe contains up to seven specific sensors to acquire fluid-property measurements from a water-well. Use of the latest robust membrane sensor technology and low drift electronics eliminates the need for complex field calibrations.

Correction of measurements to standard temperature and pressure is carried out automatically on the Robertson Geo Micrologger surface system.

SPECIFICATION:

Features

- Continuous log of fluid properties
- Measurement in-situ reduces sample storage requirements and contamination

Measurements

- Temperature
- Pressure
- Fluid conductivity
- Oxygen (ppm)
- pH
- Redox (fresh water version only)

Applications

Water

- Water quality measurements
- Location of aquifers
- Groundwater flows
- Contamination studies

Operating Conditions

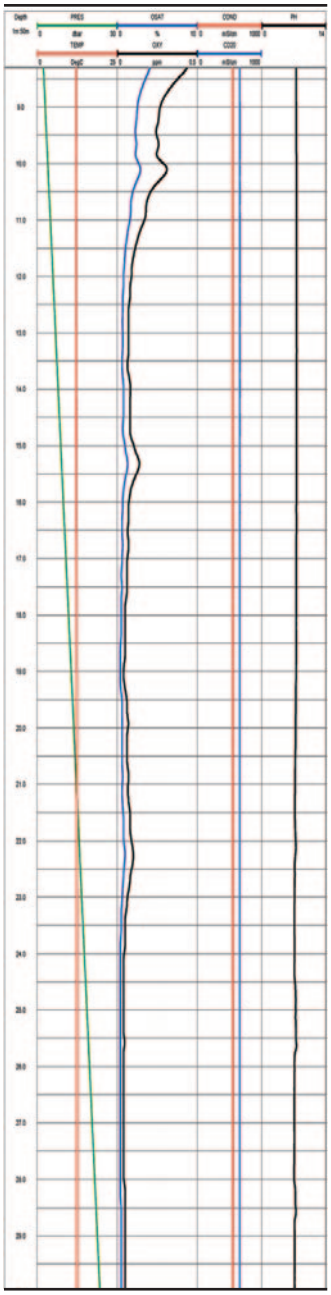
Borehole type:	open/cased, water-filled
Recommended Logging Speed:	1.5m/min

Specifications

Version:	**Fresh Water**	**Saline Water**
Length:	1.67m	1.67m
Diameter:	45mm	45mm
Weight:	5.5kg	5.5kg
Max temperature rating:	50°C	50°C
Max pressure:	10MPa	10MPa
Pressure: range:	0-10MPa	0-10MPa
Temperature range:	-5 to +50°C	-5 to +50°C
Conductivity range:	0 to 7000 µS/cm 0 to 350mS/cm (brine)	0 to 90mS/cm 0 to 350mS/cm (brine)
Oxygen optical:	0 to 45mg/l 0 to 250% sat.	0 to 45mg/l 0 to 250% sat.
pH range:	1 to 13 pH	1 to 13 pH
Redox measurement:	Range -1000 to +1000mV	N/A

Part Numbers

I021901	Water Quality probe (fresh-water version)
I021902	Water Quality probe (saline water version)



Example of logging data

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