

DATASHEET

AQUAlogger® 530WTD

Wireless temperature and depth logger



KEY FEATURES

- Measure temperature and pressure in a self-contained logger
- Pressure to depth conversion
- Compact wireless design
- Automatic data display on retrieval
- Automatic download and processing
- Flexible sampling - options for continuous and burst sampling, depth trigger, up to 1 Hz sample rates and averaging
- Robust cage to protect logger on commercial vessels

APPLICATIONS

- Oceanographic and environmental monitoring
- Commercial fisheries - to aid species targeting and fishing methods
- Crowdsourcing and citizen science projects

MODELS

- Temperature and pressure loggers
- High speed temperature and depth loggers



Sensor specification

Pressure	<p>Piezo-resistive bridge</p> <p>5 bar (~40 m), 11 bar (~100 m), 51 bar (~500 m)</p> <p>±0.2% FS accuracy*, 0.01% FS resolution</p>
Temperature	<p>Thermistor</p> <p>-2 to 35°C standard range</p> <p>±0.05°C accuracy, 0.001°C resolution</p> <p>Time constant - better than 5 seconds to 63% of the change in value (high speed temperature probe with 1 second time constant also available)</p>

* Including non-linearity, hysteresis, zero offset and end value deviation (corresponds to measured error per IEC 61298-2).

Logger specification

Parameters	Pressure, temperature, battery voltage - all models Depth - derived parameter
Memory	> 4,000,000 parameters readings in non-volatile FLASH
Logging lifetime	Typically 1 years, depending on regime
Data retention	> 10 years
Sampling	Burst or continuous
Acquisition rate	Up to 1 Hz
Burst averaging	Bursts may be averaged to a single data value
Logger communication	Wireless - IEEE802.15.1
Reader communication	USB, bus powered
Battery	1.5V alkaline battery
Software	AQUAtalk for configuration and download
Maximum depth	500 m
Material	Acetal
Weight	520 g in air, 200 g in water - logger only 1,320 g in air, 600 g in water - with cage
Dimensions	Diameter - 55 mm, Length - 200 mm - logger only Diameter - 74 mm, Length - 250 mm - with cage
Attachment	Single or double point attachments, with holes for screw attachment and shackles (provided) for rope, shackle or carabiner attachment

Models

AQUAlogger 530WTD	Pressure and temperature logger, depth dependent on pressure sensor
AQUAlogger 530WHSTD	Pressure and high speed temperature logger, depth dependent on pressure sensor

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