

DATASHEET

AQUAlogger® 520PT

Temperature and pressure mini logger





KEY FEATURES

- Measure temperature and pressure in a selfcontained logger
- Pressure to depth conversion
- Compact wireless design
- Up to 5 year battery life
- User friendly data upload
- Flexible sampling options for continuous and burst sampling, up to 1 Hz sample rates and averaging

APPLICATIONS

- Oceanographic and environmental research
- Environmental impact assessments
- Temperature distribution surveys
- Long term time series at fixed observatories

MODELS

- Temperature only loggers
- Temperature and pressure loggers
- High speed temperature loggers with and without pressure



Sensor specification

Pressure	Piezo-resistive bridge 5 bar (~40 m), 11 bar (~100 m), 51 bar (~500 m), 101 bar (~1000 m) ±0.2% FS accuracy*, 0.01% FS resolution
Temperature	Thermistor -2 to 35°C standard range ±0.05°C accuracy, 0.001°C resolution Time constant - better than 5 seconds to 63% of the change in value (high speed temperature probe with 1 second time constant also available)

^{*} 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 Depth - derived parameter
Memory	> 250,000 parameters readings Upgrade available for > 500,000 parameter readings
Logging lifetime	Typically 5 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 system via separate drop-in reader
Reader communication	USB, bus powered
Battery	3.6V custom lithium 'AA' cell - technician replaceable
Software	AQUAtalk for configuration and download
Maximum depth	1000 m
Material	Acetal
Weight	190 g (6.4 oz) in air 41 g (1.5 oz) in water
Dimensions	Diameter - 32 mm (1.3"), Length - 200 mm (7.9")

Models

AQUAlogger 520T	Temperature logger, maximum 1000 m depth
AQUAlogger 520PT	Pressure and temperature logger, depth dependent on pressure sensor
AQUAlogger 520HST	High speed temperature logger, maximum 1000 m depth
AQUAlogger 520PHST	Pressure and high speed temperature logger, depth dependent on pressure sensor

Contact us

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