

## DATASHEET

# AQUAlogger<sup>®</sup> 520PT

Temperature and pressure mini logger



### KEY FEATURES

- Measure temperature and pressure in a self-contained 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

<b>Pressure</b>	<p>Piezo-resistive bridge</p> <p>2 bar (~10 m), 4 bar (~30 m), 5 bar (~40 m), 11 bar (~100 m), 51 bar (~500 m), 101 bar (~1000 m)</p> <p>±0.2% FS accuracy*, 0.01% FS resolution</p>
<b>Temperature</b>	<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

<b>Parameters</b>	Pressure, temperature, battery voltage Depth - derived parameter
<b>Memory</b>	> 250,000 parameters readings Upgrade available for > 500,000 parameter readings
<b>Logging lifetime</b>	Typically 5 years, depending on regime
<b>Data retention</b>	> 10 years
<b>Sampling</b>	Burst or continuous
<b>Acquisition rate</b>	Up to 1 Hz
<b>Burst averaging</b>	Bursts may be averaged to a single data value
<b>Logger communication</b>	Wireless system via separate drop-in reader
<b>Reader communication</b>	USB, bus powered
<b>Battery</b>	3.6V custom lithium 'AA' cell - technician replaceable
<b>Software</b>	AQUA <i>talk</i> for configuration and download
<b>Maximum depth</b>	1000 m
<b>Material</b>	Acetal
<b>Weight</b>	190 g (6.4 oz) in air 41 g (1.5 oz) in water
<b>Dimensions</b>	Diameter - 32 mm (1.3"), Length - 200 mm (7.9")

## Models

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

## Contact us

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