

DATASHEET
AQUAlogger® 520
Mini logger



De Hoogjens 22
4254 XW Sleeuwijk
The Netherlands
T. +31-183-307900 F. +31-183-307910
E. info@seascape.nl www.seascape.nl



Temperature,
pressure - to 1000m

IDEAL FOR LONG DEPLOYMENTS / FLEXIBLE ALTERNATIVE TO THERMISTOR CHAINS

KEY FEATURES

- Compact wireless design
- Up to 5 year battery life
- User-friendly data upload
- Pressure to depth conversion
- Quick and easy deployment
- Suitable for freshwater and marine environments

APPLICATIONS

- Temperature distribution surveys
- Time series at fixed observatories
- Environmental impact assessments

MODELS

- Temperature logger
- Temperature & pressure logger

SENSOR SPECIFICATIONS



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	Temperature	Pressure
Sensor type	Thermistor	Piezo-resistive bridge
Ranges	-2 to 30°C standard, other ranges on request	5 bar (~40m), 11 bar (~100m) 51 bar (~500m), 101 bar (~1000m) (Other sensors available on request)
Resolution	better than 0.007°C	better than 0.01% full scale
Accuracy	±0.05°C	typically better than 0.2% full scale*
Time constant	better than 5 seconds to 63% of the change in value*	N/A

High speed temperature probe with 1 second time constant also available.

LOGGER SPECIFICATION

Data storage capacity	> 250,000 parameter readings, in non-volatile FLASH Option available for >500,000 parameter readings
Logging lifetime	Typically 5 years, depending on regime
Data retention	>10 years
Burst sampling	Bursts every 1 – 255 seconds or 1 – 255 minutes
Within-burst rate	From 1 Hz to once every 30 seconds
Burst averaging	Bursts may be averaged to a single data value
Logger communication	Wireless system via separate drop-in reader
Reader communication	USB 1.1, bus powered
Battery	3.6V Custom Lithium 'AA' cell - Technician replaceable
Software	AQUAtalk for Windows for configuration and download
Attachment	Single point attachment through mounting hole or use clamp
Maximum depth	1000 m
Dimensions	200mm (7.9") long x 32mm (1.3") diameter
Weight	190g (6.4oz) in air; 41g (1.5oz) in water

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

Contact us

t +44 (0)1256 416010 (UK) t 1-281-220-6035 (USA)
e inquiry@aquatecgroup.com www.aquatecgroup.com

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