

# DATASHEET

## AQUAlogger® 540

### Midi logger



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# Temperature, pressure - to 4000m

**IDEAL FOR DEEP WATER RESEARCH AND REAL TIME MONITORING**

#### KEY FEATURES

- Compact, self-contained logger
- High speed data connection
- Real time reporting capability as standard
- Custom solutions beyond 4000m
- Quick and easy deployment
- Pressure to depth conversion

#### APPLICATIONS

- Deep water temperature distribution surveys
- Real time oceanographic and environmental monitoring

#### 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), 201 bar (~2000m), 401 bar (~4000m)  (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

## LOGGER SPECIFICATION

Data storage capacity	Greater than 4M parameter readings, in non-volatile FLASH
Logging lifetime	Depends on logging parameters - up to 1 year
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
Communication	RS232 or RS422 (specify) and USB 1.1, bus powered
Optional extra inputs	2 channels 0-5V external
Optional controls	External trigger input or output
Battery	3 x 3.6V Custom Lithium 'AA' cell pack
Software	AQUAtalk for Windows for configuration and download
Attachment	Single attachment through mounting hole or use clamp
Maximum depth	1000m standard version (acetal) 4000m deepwater version (stainless steel)

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

## Contact us

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