

# **DATASHEET**



### **KEY FEATURES**

- Measure temperature and pressure in a selfcontained logger
- High speed sampling up to 8 Hz
- Real time reporting capability
- · Quick start by swiping a magnet against the logger
- Shake the logger to check the status
- Flexible sampling options for continuous and burst sampling, delayed start, variable sample rates, intermittent logging and averaging

## **APPLICATIONS**

- Oceanographic and environmental research
- Environmental impact assessments
- Wave and tidal studies

#### **MODELS**

- Standard loggers temperature & pressure
- Deep water loggers to 6000m
- High accuracy loggers high speed temperature and high accuracy pressure



## **Sensor specification**

	<b>Standard accuracy</b> 5 bar (~40 m), 11 bar (~100 m), 51 bar (~500 m), 101 bar (~1000 m) - standard range 201 bar (~2000 m), 401 bar (~4000 m), 601 bar (~6000 m) - deep water range
Pressure	±0.2% FS accuracy*, 0.01% FS resolution
	High accuracy
	Pressure ranges - on request
	±0.05% FS accuracy*, 0.01% FS precision - high accuracy
Temperature	±0.05°C accuracy, 0.001°C resolution
	-2 to +35°C standard range

<sup>\*</sup> 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	64 MB in non-volatile FLASH (standard) 128 MB (Upgrade option 1) - 384 MB (Upgrade option 2)
Logging lifetime	Depends on logging parameters - up to 1 year
Data retention	>20 years
Sampling	Burst or continuous
Acquisition rate	Up to 8 Hz depending on sensors
Burst averaging	Flexible averaging of multiple samples within burst
Communication	USB and either RS232 or RS422 Optional wireless communication upgrade
External interfaces	Compatible comms modules: display, optical modem, acoustic modem
Battery	4 x AA cells - selected from alkaline, lithium or NiMH
Software	AQUAtalk for configuration and download
Maximum depth	1000 m - standard model 6000 m - deep water model
Material	Acetal - standard model Duplex, with sacrificial anode - deep water model
Weight	<3 kg in air - standard model <5 kg in air - deep water model
Dimensions	Diameter - 60 mm, Length - 327 mm

### **Models**

AQUAlogger 310T	Temperature logger, maximum 1000 m depth, standard accuracy
AQUAlogger 310PT	Pressure and temperature logger, depth dependent on pressure sensor, standard accuracy
AQUAlogger 310P <sub>H</sub> T	Pressure and temperature logger, depth dependent on pressure sensor, high accuracy
AQUAlogger 310Tdeep	Temperature logger, maximum 6000 m depth, standard accuracy
AQUAlogger 310PT deep	Pressure and temperature logger, depth up to 6000m, standard accuracy
AQUAlogger 310P <sub>H</sub> Tdeep	Pressure and temperature logger, depth up to 6000m, high accuracy

## **Contact us**

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