

DATASHEET

Advanced Turbidity Logger

AQUAlogger[®] 310TY

The AQUAlogger[®] 310TY is a series of versatile compact instruments that measure turbidity to over 10,000FTU.



KEY FEATURES

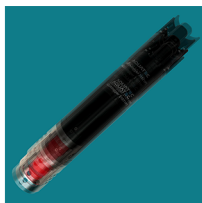
- Measure turbidity to over 10,000 FTU
- Convert turbidity to suspended sediment concentration with the SSC Converter tool
- Optional automatic wipers
- Quick start by swiping a magnet against the logger
- Shake the logger to check the status
- Flexible sampling - options for continuous and burst sampling, delayed start, variable sample rates, intermittent logging and averaging

APPLICATIONS

- Coastal erosion studies
- Oceanographic research
- Dredge monitoring
- Suspended sediment monitoring
- Environmental impact assessments

SENSOR PARAMETERS

- Turbidity
- Turbidity + Temperature
- Turbidity + Temperature +Pressure
- Standard and Deep Water Models



Specifications

Sensors	Turbidity	Optical backscatter sensor Light source wavelength: 880nm Sensing distance (from window): <5 cm (approx.) Range: 0 to >10,000 FTU
	Pressure	Standard Loggers: 5 bar (~40 m), 11 bar (~100 m), 5 bar (~40 m), 51 bar (~500 m), 101 bar (~1000 m) Deep Water Loggers: 201 bar (~2000 m), 401 bar (~4000 m), 601 bar (~6000 m) $\pm 0.2\%$ FS accuracy*, 0.01% FS resolution
	Temperature	$\pm 0.05^{\circ}\text{C}$ accuracy, 0.001°C resolution -2 to $+35^{\circ}\text{C}$ standard range
Logger	Parameters	Turbidity, SSC, battery voltage - All models Temperature, depth (pressure derived), pressure - Model dependent
	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 Range	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
	Battery	4 x AA cells - selected from alkaline, lithium or NiMH
	Software	AQUAtalk™ for configuration and download, including SSC Converter
	Maximum Depth	1000 m - Standard models 4000 m and 6000 m - Deep water models
	Material	Acetal - Standard models Duplex, 316 stainless, and titanium options with sacrificial anode for deep water models
	Weight	<3 kg in air - Standard models <5 kg in air - Deep water models
Dimensions	Diameter - 60 mm, Length - 360 mm	

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

Aquatec Group Ltd.
Registered in England & Wales
No. 2523284

Visiting Address
Aquatec House, Stroudley Road,
Basingstoke RG24 8FW, UK

Internet
www.aquatecgroup.com
inquiry@aqatecgroup.com

Telephone / Fax
+44 (0) 1256 416010
+44 (0) 1256 416019