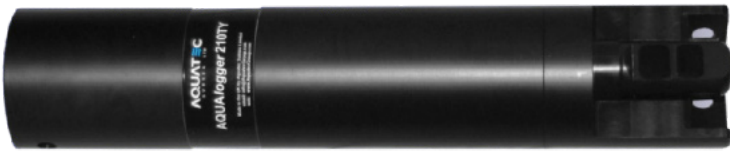


DATASHEET

AQUAlogger® 210TY

Turbidity logger



Turbidity, temperature,
pressure - to 4000m

IDEAL FOR DREDGE MONITORING / WATER QUALITY STUDIES

KEY FEATURES

- 4 fixed gains or autogain function
- Optional automatic wipers to combat biofouling
- Real time reporting capability as standard
- Pressure to depth conversion
- Now with SSC Converter - convert turbidity to suspended sediment concentration

APPLICATIONS

- Coastal erosion studies
- Dredge monitoring
- Environmental impact assessments

MODELS

- Turbidity logger
- Turbidity and temperature logger
- Turbidity, temperature & pressure logger

SENSOR SPECIFICATIONS

	Turbidity			
Light Source Wavelength	880 nm			
Scattering Angles	15 - 150 degrees			
Measurement Range (typical value)	0-25 FTU	0-125 FTU	0-500 FTU	0-2000FTU
Regression	Linear			Polynomial

	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)
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
Optional extra inputs	2 channels 0-5V external
Optional controls	External trigger input External trigger output as custom option
Battery	3 x 3.6V Custom Lithium 'AA' cell pack
Software	AQUAtalk for Windows for configuration and download
Attachment	Single point 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).

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