

Wide-Range Turbidity Logger

AQUAlogger® 310TY

The AQUAlogger® 310TY is a compact, self-contained instrument designed for reliable turbidity measurement in freshwater and marine environments with a range from 0 to over 10,000 FTU. It includes a built-in tool for converting turbidity measurements into suspended sediment concentration using in situ samples. The AQUAlogger® 310TY is rated for deployments to depths of 1,000 m, with alternative models available for deeper-water monitoring requirements.



KEY FEATURES

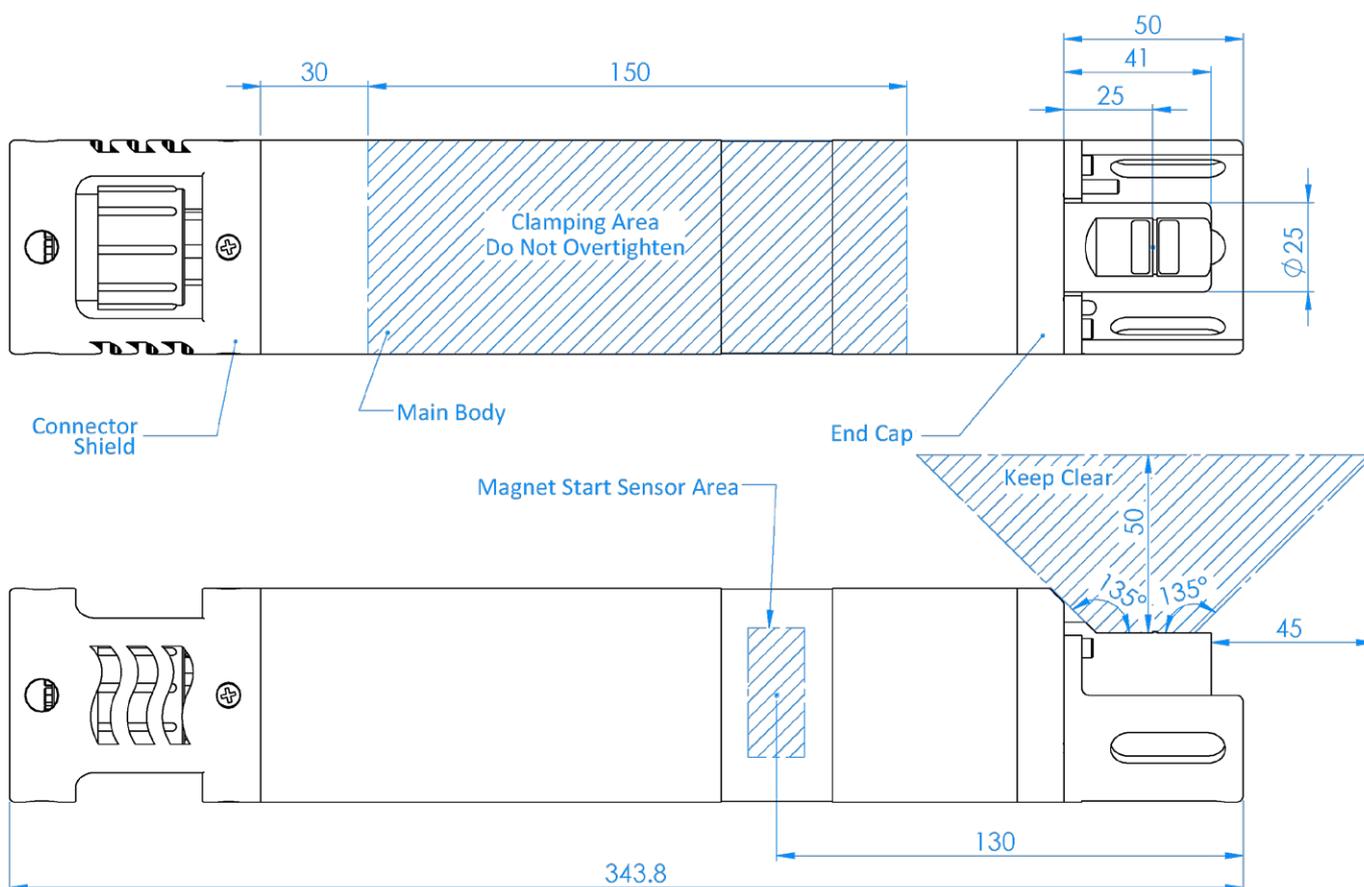
- Measure turbidity to over 10,000 FTU
- Convert turbidity to suspended sediment concentration with the SSC Converter tool
- Optional automatic wipers
- Quick start by swiping a magnet against the logger
- Shake the logger to check the status
- Flexible sampling - options for continuous and burst sampling,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

APPLICATIONS

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

TECHNICAL SPECIFICATIONS

Turbidity sensor	Optical backscatter sensor Light source wavelength: 880nm Sensing distance (from window): <5 cm (approx.) Range: 0 to >10,000 FTU
Parameters	Turbidity Suspended sediment concentration (SSC) Battery Voltage
Memory	64 MB non-volatile FLASH Incremental upgrades to 1GB available
Logging lifetime	Depends on logging parameters and available power
Data retention	>20 years
Sampling	Burst or continuous
Acquisition rate	Up to 8 Hz (depending on configuration)
Burst averaging	Flexible averaging of multiple samples within burst
Communication	USB and either RS232 or RS422 (MCBH16M Subcon) Optional wireless communication is available through the AQUAmodem® Op2 optical modem series, developed by TECPRIME's parent company, Aquatec Group Limited.
Battery	4 x AA cells (alkaline, lithium or NiMH) External battery systems available
Software	AQUAtalk® for configuration and download, including SSC Converter
Maximum depth	1,000 m
Housing	Acetal
Weight	<3 kg in air
Dimensions	Diameter: 60 mm, Length: 343.8 mm
OTHER MODELS	
AQUAlogger® 310TY Deep	Turbidity logger Depth rated to 6,000 m
AQUAlogger® 310TYT	Turbidity and temperature logger Depth rated to 1,000
AQUAlogger® 310TYT Deep	Turbidity and temperature logger Depth rated to 6,000
AQUAlogger® 310TYPT	Turbidity, temperature and depth logger Depth rated to 1,000
AQUAlogger® 310TYPT Deep	Turbidity, temperature and depth logger Depth rated to 6,000



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