

Wide-Range Turbidity Logger

AQUAlogger® 310TY Deep

The **AQUA**logger® 310TY Deep is a compact, self-contained instrument designed for reliable turbidity measurement in freshwater and marine environments, optimised for deep-water deployments. It incorporates an optical turbidity sensor with a measurement range from 0 to over 10,000 FTU, suitable for a wide range of monitoring applications. The logger includes a built-in tool for converting turbidity measurements into suspended sediment concentration using in situ samples. The **AQUA**logger® 310TY Deep is rated for deployments to depths of 6,000 m, with shallower-rated versions also available.



KEY FEATURES

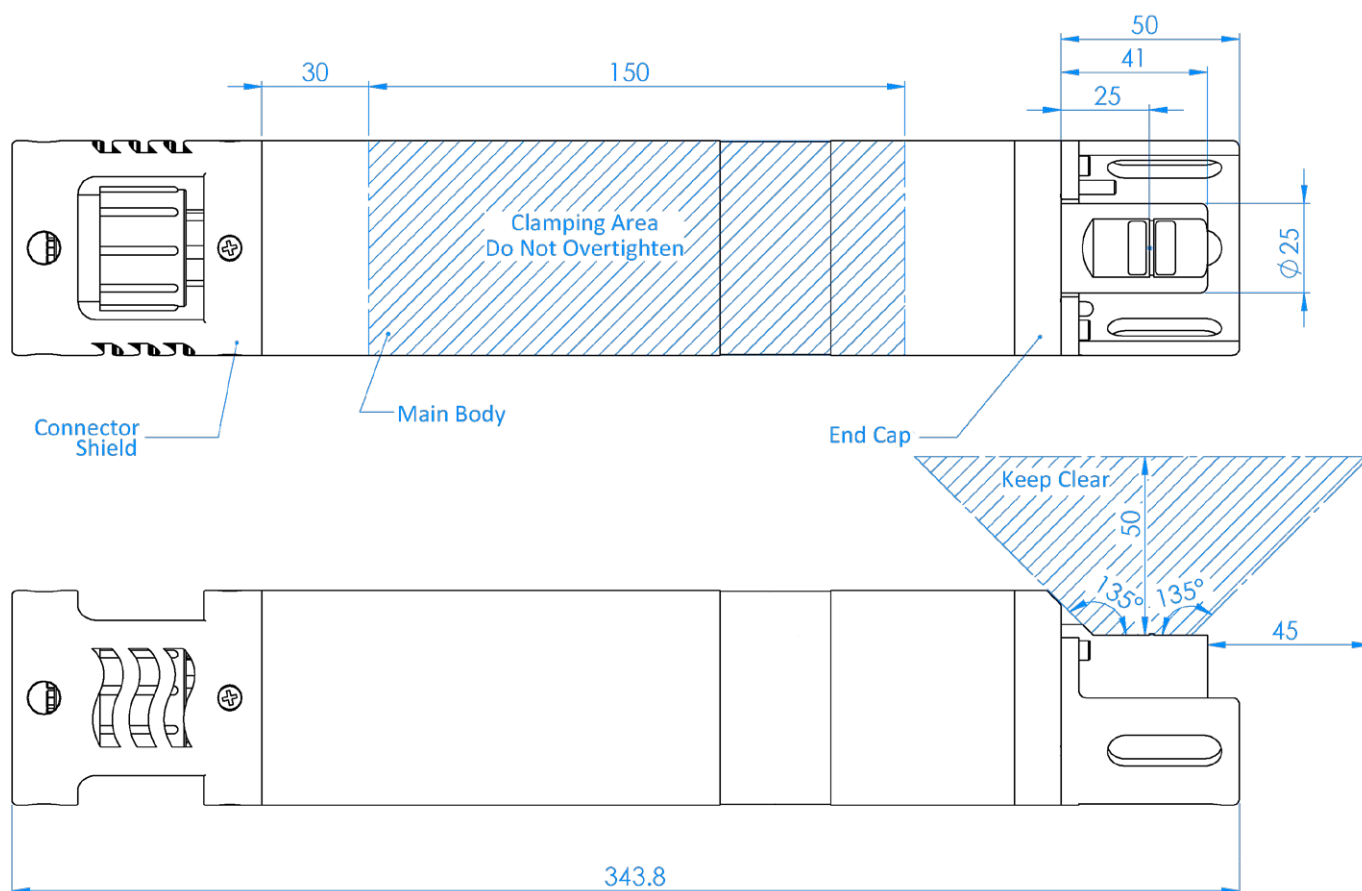
- Turbidity measurement to over 10,000 FTU
- Turbidity to suspended sediment concentration conversion with SSC Converter tool
- Flexible sampling:
Options for continuous and burst sampling, delayed start, variable sample rates, intermittent logging and averaging

APPLICATIONS

- Deep-water data collection
- Oceanographic research
- Suspended sediment monitoring
- Environmental impact assessments

TECHNICAL SPECIFICATIONS

Turbidity sensor	Optical backscatter sensor Light source wavelength: 880 nm 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 1 GB 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	6,000 m
Housing	Titanium
Weight	<5 kg in air
Dimensions	Diameter: 60 mm, Length: 343.8 mm
OTHER MODELS	
AQUAlogger® 310TY	Turbidity logger Depth rated to 1,000 m
AQUAlogger® 310TYT	Turbidity and temperature logger Depth rated to 1,000 m
AQUAlogger® 310TYT Deep	Turbidity and temperature logger Depth rated to 6,000 m
AQUAlogger® 310TYPT	Turbidity, temperature and depth logger Depth rated to 1,000 m
AQUAlogger® 310TYPT Deep	Turbidity, temperature and depth logger Depth rated to 6,000 m



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