

SediMeter™ SM4 Specifications

<i>Parameter</i>	<i>Specifications</i>
Length	80 cm
Mass	280 g
Diameter	20 mm turbidimeter and battery house, 15 mm SediMeter sensor
Data	
Data output	Bottom level (cm) NIR backscatter, 945 nm, at 36 levels (FBU) NIR sidescatter, 945 nm, at 35 levels Turbidity 90° nephelometric, 850 nm (ISO 7027-type; FNU) Turbidity 90° nephelometric, white light (EPA-type; NTU) Fluorescence 90° (UVA 367 nm, measures white light; FFU) Light level (lux) Background NIR light Temperature (cK) Acceleration 3D, 10 Hz, 30 values per measurement Battery voltage (mV) 1 FTU, 1 FNU, 1 NTU, 1 FFU, 1 lux
Optical sensors resolution	0.01 mm
Bottom level resolution	0.1 mm
Sedimentation detection threshold	1 mm
Bottom level linearity	0.01°C, calibrated to ±0.2°C
Thermometer resolution	100 s
Thermometer time constant	±2 g, 10 Hz, 0.016g resolution, 30 values per measurement
Accelerometer 3D, default	0.001 g resolution. Filtering, frequency, and range can also be customized.
Accelerometer options	Excitation 367 nm, FWHP 15 nm. Emission 570 nm, range λ10% 400..900 nm
Fluorescence meter	All optical sensors including backscatter are corrected for ambient light
Background light correction	
Logger	
Measurement interval	User selectable from 1 second to 24 hours
Memory	32,768 measurements (records of 264 bytes each)
Conditions-based monitoring	The accelerometer is programmed to trigger extra measurements so as to capture the strongest vibration event in each deployment
Communication	
Computer interface	RS-485
Baud rates	9600 baud; 28.8k, 56.6k, 115.2k, 230.4k (N, 8, 1)
Network	Up to 255 units in a daisy-chained cable
Protocol	LogDator Communication Protocol
Power	
Input voltage range	5 to 15 V, <500 mA
Battery	Lithium rechargeable
Battery Duration, max	6 months
Recharge Time, ca	3 hours
User interface	
Indicator LEDs	Blue for power connected, red for charging, green for full, yellow for receiving, green for transmitting
Control	Using PC software and USB cable; Reset with magnet
Anti-fouling	
UVA light	2 UV LEDs in the ISO/EPA turbidimeter window, automatic
Copper	User-applied copper tape significantly limits fouling
Environmental	
Depth rating	Tested 1 to 50 m. Deeper rating on request.
Temperature	From 0°C to 50°C. Avoid strong sunlight.



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Specifications subject to change without prior notice.

