

SediMeter™ SM5A Specifications (prel.)

<i>Parameter</i>	<i>Specifications</i>
Length	74 cm
Sensor length, OBS array	48 cm
Mass	350 g
Diameter	20 mm
Data, normal timed measurement	
Data output	Bottom level (cm) Background NIR light, at 48+1 levels NIR backscatter, 945 nm, at 48 levels (FTU) NIR sidescatter, 945 nm, at 47 levels (FTU) Turbidity 90° nephelometric, 850 nm (ISO 7027-type; FNU) Temperature (cK) Acceleration 3D: X, Y, Z (four 10-bit samples or six 8-bit samples) Battery voltage (mV) T.B.D. FTU, 0.1 FNU
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	May be set to measure based on impact or vibration
Conditions-based monitoring	±2 g, 10 Hz, 0.001g resolution, 4 or 6 values per measurement
Accelerometer 3D, default	Customizable resolution, rate, range, etc
Accelerometer options	
Logger	
Measurement interval	User selectable from 1 second to 24 hours
Memory	32,768 measurements (records of 264 bytes each)
Bursts	Up to 255 measurements with a rate of 2 Hz to 1/8th Hz
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	3 months
Recharge Time, ca	3 hours
User interface	
Indicator LEDs	Blue for feedback, red for charging, green for full, yellow for receiving, green for transmitting
Control	Using PC software and USB cable; Reset with magnet
Anti-fouling	
Copper	User-applied copper tape significantly limits fouling
Environmental	
Depth rating	Tested to 50 m. Deeper rating on request.
Temperature	From 0°C to 50°C. Avoid strong sunlight when not partly immersed in water.



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Specifications subject to change without prior notice.

