

SediMeter™ SM4P / SediSond™ Specifications

<i>Parameter</i>	<i>Specifications</i>
Length	74 cm
Mass	375 g
Diameter	20 mm
Intended Use	
Stationary Monitoring (SediMeter)	Push down with hardware provided with the SM4P-kit, or custom mount
Sediment Profiling (SediSond)	Free-fall profiling with optional hardware (tip, weight, line attachment)
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) User-configurable 3D-Accelerometer, 20 or 30 samples per record 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	Excitation 367 nm, FWHP 15 nm. Emission 570 nm, range λ10% 400...900 nm
Fluorescence meter	±2g/±4g/±8g/±16g; 1Hz/10Hz/25Hz/50Hz/100Hz/200Hz/400Hz; filtering.
3D-Accelerometer, configurable	Vibration detection, free-fall detection: detection threshold; event duration.
Logger	
Measurement interval	User selectable from 1 second to 24 hours; burst sampling available
Records per measurement (bursts)	1...255 records; 0.125 Hz...20 Hz (some functions are disabled at rates >1 Hz)
Memory	32,768 records of 264 bytes each
Conditions-based monitoring (CBM)	User selectable vibration and/or free-fall detection, and/or timed logging.
Accelerometer trigger event	A FIFO memory captures 20 or 30 accelerometer measurements
Continuous accelerometer data	Can record 10-bit 3D accelerometer data at 400 Hz for >10 s
Communication	
Computer interface, protocol	RS-485, LogDator Communication Protocol (binary, 4 byte header)
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
Power	
Input voltage range, current	5 to 15 V, can use from 30 to 500 mA
Battery	Lithium rechargeable
Battery Duration, max	3 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 Using PC software ver. 6 and USB cable; Reset with magnet
Control	
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.

