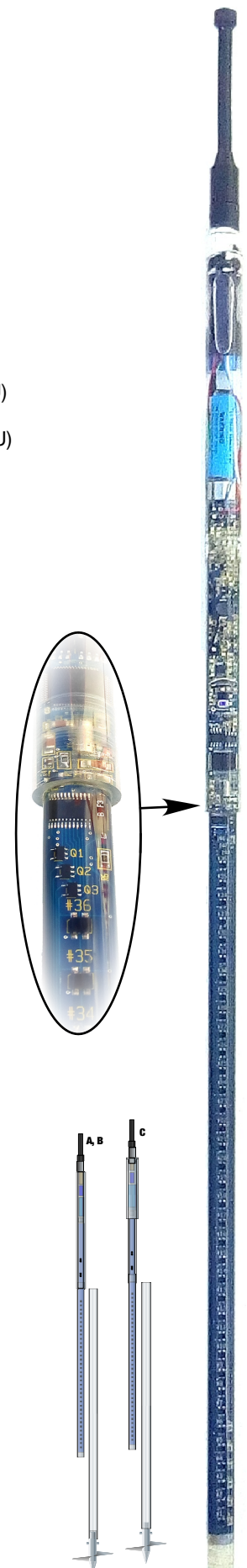


SediMeter™ SM4 Specifications

Specifications

Model	SM4A	SM3B	SM4C
Lithium Battery Size	AAA	AA	17670
Battery Duration, max	3 months	6 months	1 year
Recharge Time, ca	1 hour	3 hours	6 hours
Length	730 mm	740 mm	740 mm
Mass	370 g	370 g	400 g
Diameter, max	20 mm	20 mm	25 mm
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, 20 or 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 ±0.5°C		
Thermometer resolution	100 s		
Thermometer time constant	±2 g, 10 Hz, 0.016 or 0.001 g resolution		
Accelerometer 3D, default	Triggered by the accelerometer, gradually increasing threshold		
Conditions-Based Monitoring			
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 can trigger extra measurements		
Communication			
Computer interface	RS-485		
Baud rates	9600 baud; 115,200 baud (N, 8, 1)		
Network	Up to 255 units in a daisy-chained cable		
Protocol	LogDator Communication Protocol ver. 3.0		
Power			
Input voltage range	5 to 15 V, <500 mA		
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		
Copper	Ships with copper tape for user to apply on rear side		
Vibrator	In top end (for shaking off bubbles and adhered particles)		
Environmental			
Depth rating	Pressure tested to 45 m		
Temperature	From -10°C to 60°C		
Sunlight	Avoid strong direct sunlight due to heat buildup		





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Specifications subject to change without prior notice.