SediMeter[™] SM4 Specifications

Parameter Specifications Length 80 cm Mass 280 g Diameter 20 mm turbidimeter and battery house, 15 mm SediMeter sensor **Intended Use** Stationary Monitoring (SediMeter) Mount in screw-down holder tube provided with the SM4-kit, salt or fresh water 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 Bottom level resolution 0.01 mm Sedimentation detection threshold 0.1 mm Bottom level linearity 1 mm Thermometer resolution 0.01°C, calibrated to ±0.2°C Thermometer time constant 100 s Fluorescence meter Excitation 367 nm, FWHP 15 nm, Emission 570 nm, range λ 10% 400...900 nm 3D-Accelerometer, configurable ±2a/±4a/±8a/±16a: 1Hz/10Hz/25Hz/50Hz/100Hz/200Hz/400Hz; filtering. 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) Up to 255 units in a daisy-chained cable Network Power Input voltage range, current 5 to 15 V, can use from 30 to 500 mA Batterv 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 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.