

SediMeter™ SM3 Specifications

Specifications

Model	SM3
Length	80 cm
Mass	230 g
Diameter	15 mm sensor 20 mm battery house
Lithium Battery Size	AA
Recharge Time, ca	3 hour
Data	
Data output	Turbidity straight backscatter at 36 + 1 levels Turbidity oblique backscatter at 35 levels Bottom level (cm) Temperature (cK) Battery voltage (mV)
Turbidimeter principles	180° straight backscatter, 140° oblique backscatter (not corrected for ambient light)
OBS wavelength	945 nm (NIR)
OBS detectors	36 detectors 10 mm apart, plus one 110 mm higher up
Turbidity resolution and range	1 FBU from 0 to >10,000 FBU
Bottom level resolution	0.01 mm
Sedimentation detection threshold	0.1 mm
Bottom level linearity	1 mm
Thermometer location	Between OBS #36 and #37
Thermometer resolution	0.01°C, calibrated to ±0.5°C
Thermometer time constant	100 s
Logger	
Measurement interval	User selectable from 1 second to 24 hours
Memory	16,384 measurements
Burst samples	Up to 20, 1 to 16 seconds in between
Burst channels	Bottom level, turbidity (OBS #37)
Communication	
Computer interface	RS-485 (a.k.a. RS485, TIA-485)
Baud rates	9600 baud; 115,200 baud (9600,N,8,1 after RESET)
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, yellow for charging, green for full, yellow for listening, green for transmitting, red blink after each measurement
Control	Using PC software and USB cable; Reset with magnet
Environmental	
Depth rating	Tested 1 to 50 m. Deeper rating on request.
Temperature	From 0°C to 50°C. Avoid strong sunlight.



Lindorm, Inc.

10699 NW 123rd Street Road
Medley, FL 33178-6166
USA

Ph (+1) 305-888-0762

mail@lindorm.com

web: lindorm.com