SediMeter™ SM3 Specifications

Specifications

Model	SM3A	SM3B	SM3C
Sensor Cleaner	None	Mechanical	Vibrator
Length	700 mm	760 mm	730 mm
Mass	140 g	380 g + 230 g shuttle	145 g
Diameter	15 mm	15 mm sensor 20 mm motor house 60 mm shuttle	15 mm
Lithium Battery Size	AAA	17670	AAA
Battery Duration, max	3 months	1 year	3 months
Recharge Time, ca	1 hour	6 hours	1 hour
Connector	Top end	Bottom end	Top end

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
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	Pressure tested to 45 m
Temperature, daylight	From 0ºC to 50ºC, not exposed to sunlight

Lindorm, Inc.
10699 NW 123rd Street Road
Medley, FL 33178
USA
Ph (+1) 305-888-0762 Fax (+1) 305-888-0978
mail@lindorm.com web: lindorm.com