SediMeter™ SM3C-kit

This SediMeter™ SM3C features a vibrator for shaking off sediment particles. It is thus intermediate between SM3A, which has no cleaning function, and the SM3B, which has an outside mechanical cleaner and a much larger battery. It is intended for environments with suspended sediment in the water and limited fouling, whereas the SM3B is intended for highly fouling environments with low suspended sediment content. Outwardly it is similar to the SM3A.

Contents

One SediMeter SM3C instrument with all the accessories for deploying it in a stand-alone self-logging mode in the field. The instrument can also be used for real-time mode in the lab, using the supplied 1.8 m long cable. The kit comes in a storage and transportation case. The free software supports setup, data download, data analysis, real-time monitoring, and alarms including automatic e-mails for erosion, sedimentation, and elevated turbidity.

Applications

- Measure changes in bed level, sedimentation, erosion
- Monitor near-bed turbidity, siltation
- Detect bedload and suspended sediment transport
- Studies of bedform variability and sand transport
- Studies of mud accumulation and resuspension
- Studies of sedimentary processes and anoxic sediments

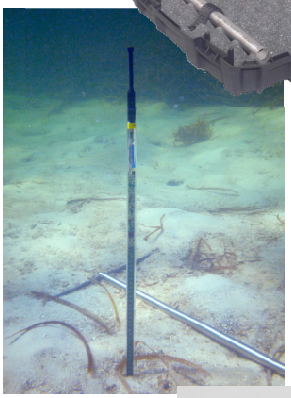
Specifications

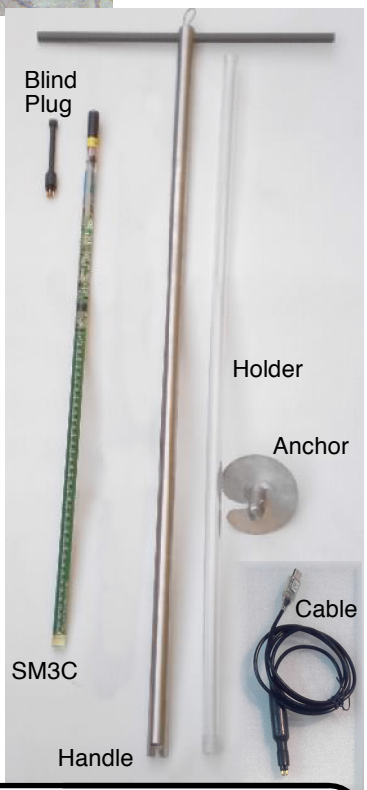
Measures	Turbidity, bottom elevation, temperature
Number of turbidity detectors	36 + 1
Detector spacing	10 mm + 110 mm
Turbidity resolution	1 FBU
Elevation resolution	0.01 mm
Temperature resolution	0.01°C
Memory	16,384 measurements
Logging interval	1 second to 24 hours
Burst samples	1..20, with 1...16 s interval
Wavelength and angle	945 nm (NIR), backscatter
Sensor diameter	15 mm
Holder tube diameter	20 mm
Communication	RS485, 9600/115200
Charging voltage range	5 V to 15 V
Battery type	Lithium 10440
Battery duration	Up to several months
Temperature range	0° C - 50° C
Recommended depth range	1 to 50 m
Instrument length	730 mm
Instrument weight	150 g

Data Output per Measurement

- One vertical turbidity profile of 36 measurements
- One turbidity value from separate sensor per burst sample
- One bottom elevation value per burst sample
- One temperature reading

Burst samples allows high temporal resolution of rapid processes, and increased precision of slow processes.





Two year warranty. Specifications subject to change without prior notice.

Lindorm, Inc.
10699 NW 123rd Street Road
Medley, FL 33178
USA
Tlf (+1) 305-888-0762 FAX (+1) 305-888-0978
mail@lindorm.com www.lindorm.com

Distributor: