

SediMeter™ SM3A-kit

This kit is the best way to start using a SediMeter™.

Contents

One SediMeter SM3A 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	700 mm
Instrument weight	140 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.

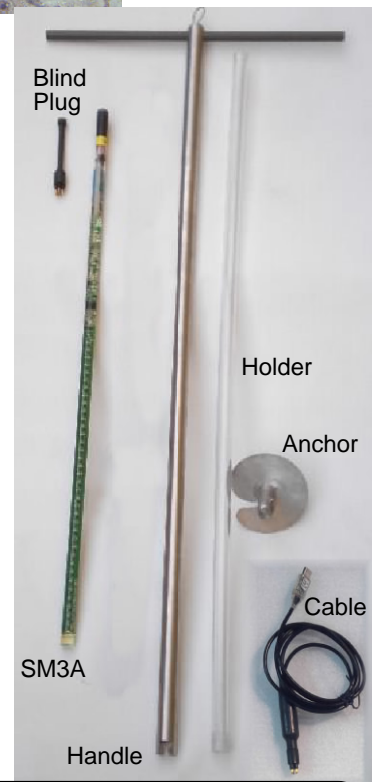
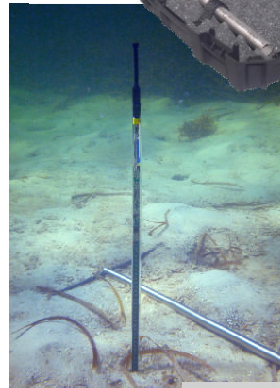


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