

# SediMeter™ SM3 kit

The kit is available with any SM3 instrument using item numbers SM3A-kit, SM3B-kit, and SM3C-kit.

## Contents

SediMeter SM3 instrument, storage case, handle, anchor and holder tube, 1.8 m cable, software, magnet for reset, and connector grease. The 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 bedload sediment transport
- Studies of bedform variability and sand transport
- Studies of mud accumulation and resuspension
- Studies of sedimentary processes and anoxic sediments

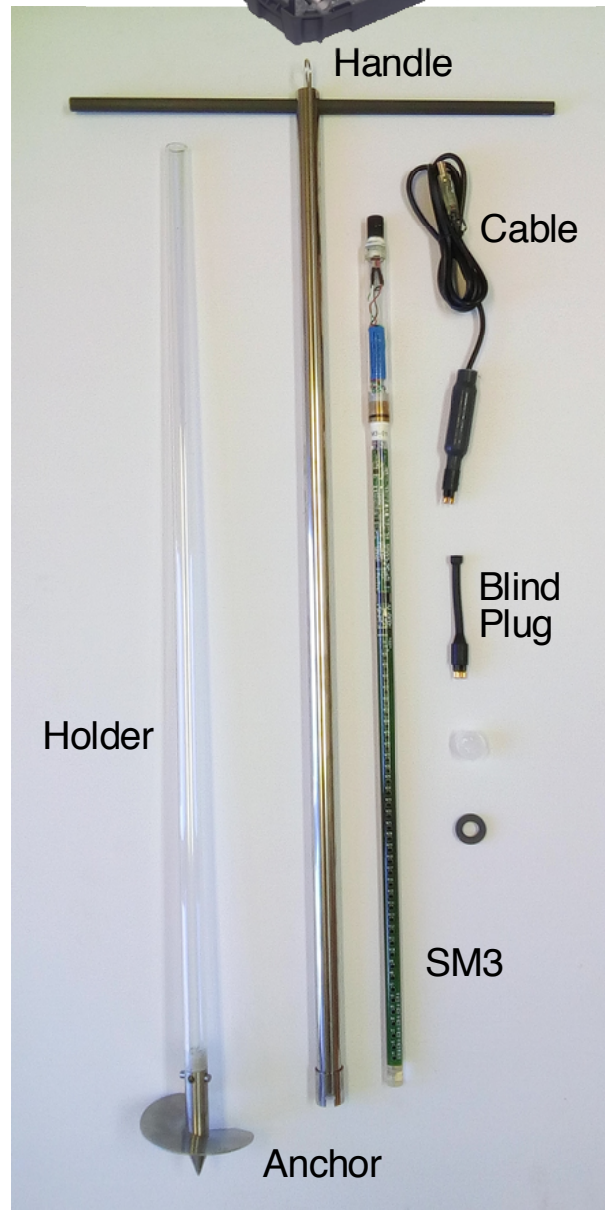
## Specifications

Case Dimensions                    107x38x14 cm (42x15x5.5")  
Shipping Weight, typical        5 kg (11 lbs)

## ABOUT THE SENSORS

The sensor consists of an array of 36 optical backscatter (OBS) detectors, 1 cm apart. The turbidity is measured at each of these 36 levels, and also in between by measuring oblique backscatter (emitted at one level and measured at the adjacent level). Using the straight backscatter the instrument estimated the bottom level. There is also a 37th OBS, 11 cm above #36. This is used for measuring turbidity, and, in SM3B, for controlling the ascent of the cleaning shuttle.

The instrument can take up to 20 measurements of level and #37 turbidity per measurement, with an interval of 1 to 16 s. These burst samples can be used to get a better average over a period with varying measurement values, e.g. over a wave cycle. Finally the instrument measures the temperature.



**Lindorm, Inc.**

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

Tlf (+1) 305-888-0762

mail@lindorm.com

www.lindorm.com

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