

miniDOT₂

A small Dissolved Oxygen Temperature logger

The miniDOT logger collects temperature and dissolved oxygen measurements and stores them to an internal 2 GB SD Card. The dissolved oxygen sensor is an optode that measures lifetime-based luminescence quenching of fluorescence of a thin membrane. The miniDOT logger is self contained and able to function within a variety of liquid environments. Data are offloaded to a computer via a USB card reader, which is provided with the product purchase.

Features

- Dissolved oxygen optode
- Time, date, DO, and T logging
- Stable optode calibration
- 2 GB internal memory card
- Small, durable and easy to use
- Data visualization software
- Operates on two AA Lithium batteries.

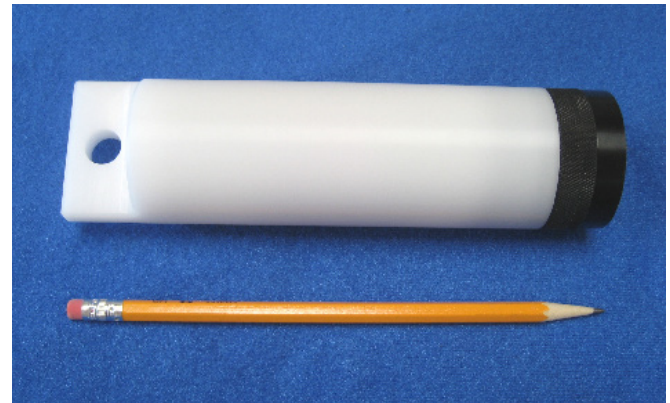
Endurance & Samples

Sample Interval	Endurance (days)	Samples (DO & T)
1 minute	180 days	259,000
10 minutes	270 days	38,000
60 minutes	300 days	7,200

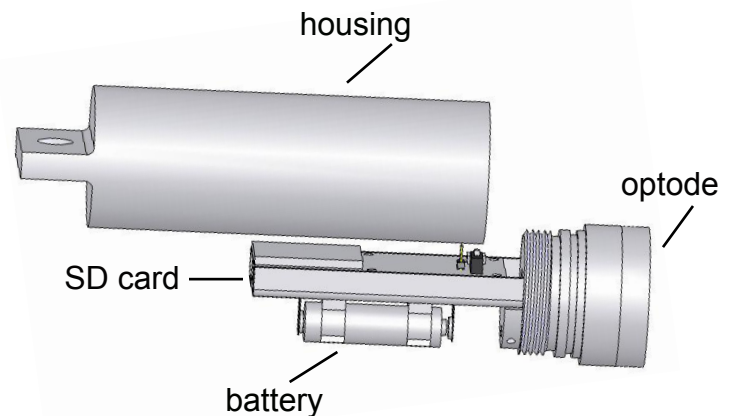
Battery: Two Energizer AA Lithium batteries.

Sensor Specifications

Temperature Accuracy	+/- 0.10 (°C)
Temperature Range	0 - 30 (°C)
Temperature Resolution	0.01 (°C)
DO Accuracy	+/- 10 µmole/l or +/- 5%
DO Range	0 - 150% saturation
DO Resolution	0.05 µmole/l or better



Model of Design



Software

The miniDOT Accessory Kit includes software to concatenate and display miniDOT logger data files. This is a Java program and Java Run Time Engine (JRE) 1.6 or later is required. The software will also compute oxygen saturation from the miniDOT logger measurements.

