PME Fast Response Sensors and Systems

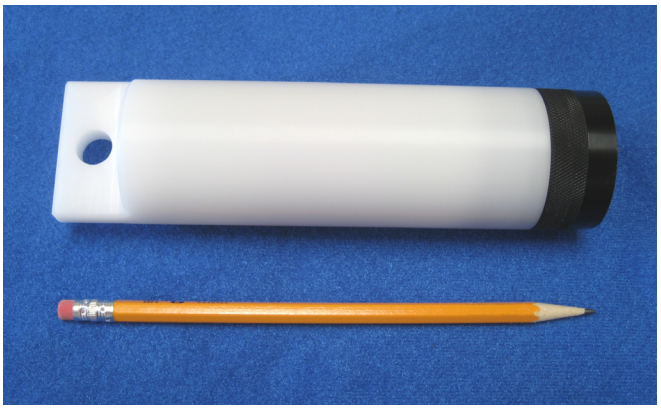
miniDOT$_2$

A small Dissolved Oxygen Temperature logger

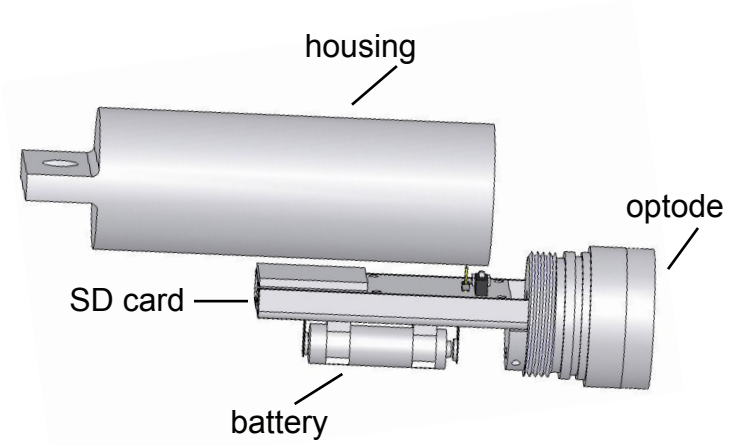
The miniDOT logger collects temperature and dissolved oxygen measurements and stores them to an internal 2 GB SD Card. The dissolved oxygen sensor is an optode that measures lifetime-based luminescence quenching of fluorescence of a thin membrane. The miniDOT logger is self contained and able to function 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 one AA 3.6v lithium battery



Model of Design



Single Battery Endurance & Samples

Sample Interval	Endurance (days)	Samples (DO & T)
1 minute	200 days	288,000
5 minutes	400 days	115,000
10 minutes	475 days	68,000
15 minutes	500 days	48,000
60 minutes	530 days	12,000

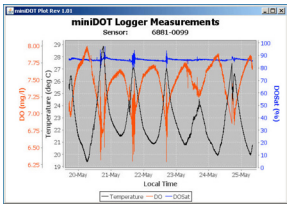
Battery: One AA 3.6v Lithium Battery

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

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.



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