



miniDOT₂

A small Dissolved Oxygen Temperature logger

The miniDOT logger is a completely submersible instrument that logs dissolved oxygen and temperature measurements. The oxygen sensor is an optode that measures dissolved oxygen concentration in water through a fluorescence method. Data are recorded to an internal SD card. Operation of the miniDOT logger such as setting the time and sample interval can be accomplished via the USB cable.



- Features**
- Dissolved oxygen optode
 - Time, date, DO, and T logging
 - Stable optode calibration
 - Internal memory
 - Small, durable and easy to use
 - Data visualization software
 - Operates on two AA Lithium batteries.
 - 100 Meter Depth.

Endurance & Samples

Sample Interval	Endurance (days)	Samples (DO & T)
1 minute	365 days	500K
10 minutes	365 +	52,000 +
60 minutes	365 +	8,000 +

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



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.

