

miniDOT® Logger

Measure dissolved oxygen and temperature in water up to 300 meters.



The fully submersible miniDOT® Logger records dissolved oxygen (DO) and temperature measurements in fresh and saltwater environments. Its oxygen-sensing optode utilizes a fluorescence method to determine concentrations of dissolved oxygen in mg/L. Sampling anywhere from once per minute to once per hour, all data is recorded to the logger's internal SD card.

In-house calibration supports long-term continuous deployment, and communication cable activates software required for data transfer and analysis. The miniDOT® Logger is powered by two AA lithium batteries, facilitating easy in-field replacement.

- Fully submersible, compact and durable
- Third-party certified up to 300 meters
- Easy programming and data retrieval
- Field calibration adjustment

SUPPORTED MEASUREMENTS

Dissolved Oxygen, Temperature

SPECIFICATIONS: MINIDOT® LOGGER, PART NUMBER 7450

Sensor Type	Optical
Calibrated Range	0 to 150% saturation
Oxygen Accuracy	± 5% of the measurement or ± 0.3 mg/L, whichever is larger
Oxygen Resolution	0.001 mg/L
Oxygen Response Time	Approximately 30 seconds
Temperature Response Time	5 minutes
Temperature Accuracy	± 0.1 degrees C
Temperature Range	0 to 35 degrees C
Temperature Resolution	1 millidegree C
Sampling Power Capacity	500,000 samples before batteries are replaced
Memory	Unlimited
Logging Interval	5 seconds to 24 hours
Battery	Two AA lithium batteries and backup coin-cell battery
Software Included	Data visualization and control
Logger Weight in Air	0.75 lbs
Dimensions	1.95 inches diameter x 7.375 inches length
Maximum Depth	300 meters (984 feet)

WIPER for miniDOT® Logger

The anti-fouling WIPER is a self-contained, completely submersible wiping device compatible with the miniDOT® Logger. Its brushing wheel rotates over the sensor surface, reducing the growth of various organisms and preventing biofouling. After each rotation the brush rests away from the sensor to avoid any monitoring interference, allowing for accurate and continuous monitoring.

