

miniDOT® Clear Logger

Measure dissolved oxygen and temperature with real-time LCD display.



The fully submersible miniDOT® Clear 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, the miniDOT® Clear Logger's clear plastic housing contains an LCD display of DO and temperature in real-time. 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® Clear Logger is powered by two AA lithium batteries, facilitating easy in-field replacement.

- Real-time dissolved oxygen display
- Fully submersible, compact and durable
- Easy programming and data retrieval
- Field calibration adjustment

SUPPORTED MEASUREMENTS

Dissolved Oxygen, Temperature

SPECIFICATIONS: MINIDOT® CLEAR LOGGER, PART NUMBER 7405

Sensor Type	Optical
Calibration Range	0 to 150% saturation
Oxygen Accuracy	± 5% of measurement or ± 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	100 meters (328 feet)

WIPER for miniDOT® Clear Logger

The anti-fouling WIPER is a self-contained, completely submersible wiping device compatible with the miniDOT® Clear 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.

