

WQSensor Dissolved Oxygen Quick Start Guide

This guide will help you get started. Detailed instructions are available in the WQ-DO manual.

Overview

The WQ-DO is a *smart* sensor, which connects directly to Windows based computers via a USB connection. No meters, batteries or power supplies are required. The WQSensor is powered from the USB port, and data is displayed directly on the computer monitor.

The WQ-DO includes memory for storing calibrations, a GLP (Good Laboratory Practices) file and a unique ID. The sensor has a concentration range of 0% to 200%. The WQ-DO has a reproducibility of $\pm 2\%$ within a temperature range of 0 to 50°C, and a 98% response time of 60 seconds.

What's Included

- WQSensors Software & Science Library CD
- Dissolved Oxygen & Temperature sensor
- Sensor storage bottle
- 60 mL bottle DO electrolyte filling solution
- Spare DO membrane cap
- (2) DO polishing strips

Installation

1. Insert the WQSensors CD into the computer CD-ROM drive and follow the installation wizard.
2. Connect the WQ-DO Sensor to a USB port on the computer and follow the Windows Driver Installation wizard.
3. Run WQSensors software and dissolved oxygen readings will be displayed on the **Sensors** tab.



Using the Sensor

The **Sensors** tab displays real-time dissolved oxygen and temperature readings. Data is updated once per second. **Calibrate** and **Log** functions are available by clicking the appropriate button on the left in the WQSensor application window.

Log intervals can be changed from the **Settings** tab. Data reports and Good Laboratory Practices files can be displayed from the **View** tab.

After plugging the sensor in, allow the probe at least 15 to 30 minutes before calibrating or measuring. Polarographic probes, such as the WQ-DO sensor, need time to warm up to ensure proper polarization of the electrodes.

Calibration

The software supports a 1-point calibration in saturation or in a solution of known concentration (mg/L). A calibration in saturation is recommended.

1. Place the sensor in the storage bottle with a water saturated sponge, but do not allow contact between the sponge and the probe. The bottle cap should be loose enough to allow for pressure equalization. Allow 50 to 60 seconds for the readings to stabilize.
2. Click on the % saturation reading, then press the **Calibrate** button and enter a barometric pressure reading. Click **OK** to accept.

For additional information see online manual

www.nexsens.com/pdf/nexsens_wq-do_manual.pdf



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