

# WQSensor ORP Quick Start Guide

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

## Overview

The WQ-ORP 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-Oxidation-Reduction Potential includes memory for storing calibrations, a GLP (Good Laboratory Practices) file and a unique ID. The sensor has a range of -1250 to 1250 mV and an operating temperature range of 0 to 50°C.

## What's Included

- WQSensors software & science library CD
- Oxidation-reduction potential sensor
- Sensor storage bottle



Figure 1: WQSensors secured in a WQ-A sensor arm

## Getting Started

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

## Using the Sensor

The **Sensors** tab displays real-time oxidation-reduction potential 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.

## Calibration

The sensor requires a 1-point calibration in a known ORP standard solution such as Zobell solution. To calibrate:

1. Place the sensor into the prepared standard solution, and allow 30 to 60 seconds for the readings to stabilize.
2. Press the **Calibrate** button. Enter the correct value of the standard for the ambient temperature and press **Calibrate** to accept.

Temperature (°C)	Zobell Solution (mV)
15	244.0
20	237.5
25	231.0
30	224.5
35	218.0



Figure 1: Click the **Sensors** tab to view live data; the connected sensor's serial number and time of last logged reading are displayed at the bottom of the screen

For more information see the online manuals  
[www.nexsens.com/knowledgebase/manual.htm](http://www.nexsens.com/knowledgebase/manual.htm)