

# WQSensor pH Quick Start Guide

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

## Overview

The WQ-pH 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.

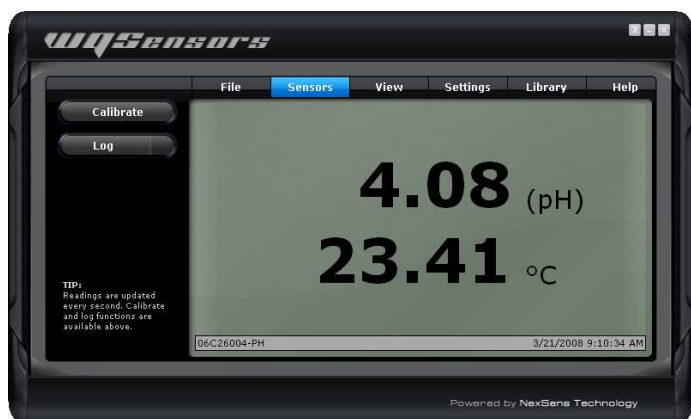
The WQ-pH includes memory for storing calibrations, a GLP (Good Laboratory Practices) file and a unique ID. The sensor has a temperature reproducibility of  $\pm 0.2\%$  for pH 0 to pH 14 solutions between 0 and 50°C.

## What's Included

- WQSensors software & science library CD
- pH & temperature sensor
- Storage bottle for WQSensors

## Getting Started

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



**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



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

## Using the Sensor

The **Sensors** tab displays real-time pH 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.

## Calibration

The software supports 1, 2 or 3-point pH calibration. A 3-point calibration will be the most accurate over the widest range, but if the samples are within a localized range of 1-2 points on the pH scale then a 2-point calibration will be adequate. To do a 3-point calibration:

1. Place the sensor in pH 7 buffer, and allow 30 to 60 seconds for the readings to stabilize.
2. Press the **Calibrate** button. Enter 7.00 for the pH buffer value and press **Calibrate** to accept.
3. Rinse and dry the sensor, then place it in either the pH 4 or the pH 10 buffer. Allow time for the readings to stabilize, press **Calibrate**. Enter the correct pH buffer value and press **Calibrate** to accept. Repeat with last buffer.

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