Pro1030 Quick Start Guide

Item #605183

This Quick Start Guide is meant to serve as a quick reference in calibrating and operating the Pro1030. It is not intended to replace the information found in the User Manual.

Installing the pH or ORP Sensor

Prior to use, install either a Pro Series pH, pH-amplified or ORP sensor. Failure to install a pH or ORP sensor may cause permanent damage to the cable not covered under warranty.

1. Remove the temporary plastic plug from the cable's port by pulling it straight out of the port. This can be discarded.
2. Remove the plastic plug from the sensor's connector by pulling it straight off the sensor. This can be discarded.
3. Ensure both the sensor connector and cable connector are clean and dry.
4. Grasp the sensor with one hand and the cable bulkhead in the other.
5. Push the sensor into the connector on the cable until it is firmly seated and only 1 o-ring is visible. Failure to properly seat the sensor may result in damage.
6. Twist the sensor clockwise to engage the threads and finger tighten. Do NOT use a tool. This connection is water-tight.
7. You may remove the shipping storage vessel from the sensing end of the sensor. This can be saved for later use when storing the sensor for long periods of time. For short term storage (<30 days), place the probe in the grey storage sleeve with a sponge moistened with tap water.

pH Calibration

The Pro1030 pH sensor can be calibrated by performing a 1, 2 or 3-point calibration. At least one of the calibration points must be done with pH buffer 7 or 6.86. For highest accuracy, perform at least a 2-point calibration.

1 Point Calibration

1. Place the sensor in pH buffer 7 or 6.86 and allow the temperature and pH readings to stabilize.
2. Press and hold **Cal** for three seconds.
3. Highlight **pH** and press **Enter**. If pH is not listed as an option, check the System Setup menu to ensure pH is enabled in the ISE Sensor Type menu.

4. Highlight 1 point and press **Enter**.
5. If necessary, use the up and down arrow keys to adjust the pH buffer value.
6. Press **Enter** to complete the calibration or press **Cal** to cancel.
7. '**Calibration Successful**' will display for a few seconds to indicate a successful calibration and then the instrument will return to the Run screen.
8. If the calibration is unsuccessful, an error message will display on the screen. Press the **Cal** key to exit the calibration error message and return to the Run screen. Refer to the troubleshooting section of the manual for a possible solution or contact YSI Technical Supportelectrolyte will overflow.

2 or 3-Point Calibration

1. Place the sensor in pH buffer 7 or 6.86 and allow the temperature and pH readings to stabilize.
2. Press and hold **Cal** for three seconds.
3. Highlight **pH** and press **Enter**. If pH is not listed as an option, check the System Setup menu to ensure pH is enabled in the ISE Sensor Type menu.
4. Highlight **2 point** or **3 point** and press enter.
5. If necessary, use the up and down arrow keys to adjust the pH buffer value.
6. Press **Enter** to continue to second point.
7. Rinse the sensor and place it in the second pH buffer (4/4.01 or 10/9.18). If necessary, use the up and down arrow keys to adjust the pH buffer value.
8. Wait approximately 30 to 60 seconds for the pH sensor to stabilize and for the temperature reading to stabilize.
9. Press **Enter** to either complete the 2-point calibration or to continue with the 3rd calibration point. Or, press **Cal** to cancel.
10. If continuing on with a 3rd calibration point, rinse the sensor and place it in the third pH buffer (4/4.01 or 10/9.18). If necessary, use the up and down arrow keys to adjust the pH buffer value.
11. Wait approximately 30 to 60 seconds for the pH sensor to stabilize and for the temperature reading to stabilize.
12. Press **Enter** to complete the 3-point calibration. Or, press **Cal** to cancel.
13. '**Calibration Successful**' will display for a few seconds to indicate a successful calibration and then the instrument will return to the Run screen.
14. If the calibration is unsuccessful, an error message will display on the screen. Press the **Cal** key to exit the calibration error message and return to the Run screen.

ORP Calibration

1. Place the clean sensor in ORP calibration solution. Wait for the ORP and temperature readings to stabilize.
2. Press and hold **Cal** for three seconds.
3. Highlight **ORP** and press **Enter**. If ORP is not listed as an option, check the System Setup menu to ensure ORP is enabled in the ISE Sensor Type menu.
4. Use the up and down arrow keys to adjust the ORP calibration solution value.
5. Wait for the temperature reading to stabilize, then press **Enter** to complete the calibration or press **Cal** to cancel.
6. '**Calibration Successful**' will display for a few seconds to indicate a successful calibration and then the instrument will return to the Run screen.
7. If the calibration is unsuccessful, an error message will display on the screen. Press the **Cal** key to exit the calibration error message and return to the Run screen. Refer to the troubleshooting section of the manual for a possible solution or contact YSI Technical Support.

Conductivity Calibration

The Pro1030 can be calibrated in conductivity, specific conductance or salinity. Calibration of any option will automatically calibrate the others. YSI recommends calibrating specific conductance for both ease and accuracy. The following procedure outlines the specific conductance calibration.

1. Fill a clean container with conductivity calibration solution and place the sensor into the solution. The solution must cover the holes of the conductivity sensor that are closest to the cable. Ensure the entire conductivity sensor is submerged in the solution or the instrument will read approximately half the expected value. Gently agitate the probe to remove any air bubbles from the conductivity sensor.
2. Turn the instrument on and allow the conductivity and temperature readings to stabilize. Press the **Cal** key. Highlight **Conductivity** and press **Enter**. Next, highlight **Sp. Conductance** and press **Enter**.
3. Highlight the units you wish to calibrate, either **uS/cm** or **mS/cm**, and press **Enter**. 1 mS = 1,000 uS. Next, use the up or down arrow key to enter the value of the conductivity solution as it is listed for 25°C. Most conductivity solution is labeled with a value at 25°C. Depressing either the up or down arrow key for 5 seconds will move the changing digit one place to the left.
4. Press **Enter** to complete the calibration. Or, press **Cal** to cancel the calibration and return to the Run screen.
5. '**Calibration Successful**' will display for a few seconds to indicate a successful calibration and then the instrument will return to the Run screen.

6. If the calibration is unsuccessful, an error message will display on the screen. Press the **Cal** key to exit the calibration error message and return to the Run screen. Refer to the troubleshooting section of the manual for a possible solution or contact YSI Technical Support.

Taking Measurements

1. Before taking measurements, be sure the instrument has been calibrated to ensure the most accurate readings.
2. Turn the instrument on, install the sensor guard and then insert the sensors into the sample.
3. Ensure the conductivity sensor is completely submerged in the sample. The two holes near the cable should be covered by the sample for accurate conductivity readings.
4. Wait for the readings to stabilize.
5. Highlight **Save** and press **Enter** to store the reading.

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Visit **YSI.com/Pro1030** to find the User Manual, specs, and accessories.

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