

# Measuring pH

## Oakton™ Handheld pH Meter

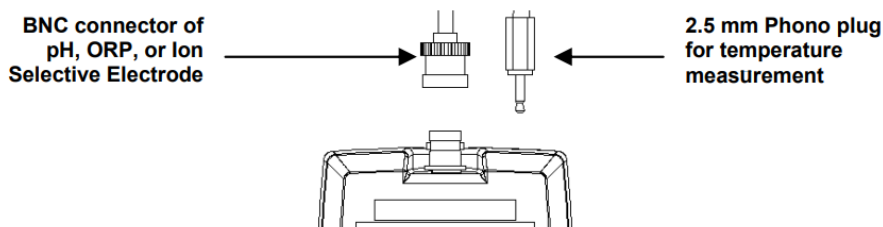


## Description of Key Pad

- On/Off: Powers meter on/off.
- Mode/INC: Selects measurement modes (pH, mV, temperature).
- CAL: Press to begin calibration of the selected mode. During set up the CAL button also functions as “escape” button.
- HOLD/ENTER: Hold will freeze the measured reading. Press again to resume live readings. Enter will confirm values in calibration mode and setup mode.

## Connecting Electrodes and Temperature Sensor

1. Align the BNC connector slots with the posts of meter's socket and rotate connector clockwise until it locks—do not force.
2. Insert the mini phono plug of temperature sensor into the socket on the meter.



## pH Calibration

*Calibrate when readings start to drift or on a monthly basis.*

1. Turn the meter on and select pH mode by pressing the MODE button.
2. Press CAL to begin calibrating. The pH reading will begin to blink on the screen.
3. Pour pH 4 buffer calibration standard solution into a clean, dry container and dip your pH electrode and temperature probe in the solution. Swirl gently or stir and wait for reading to stabilize (approx. 30 seconds depending on your electrode condition).
4. When the pH reading has stabilized, the LCD screen will stop blinking. Press the HOLD/ENTER button to confirm the value. The screen will display “CO”.
5. Repeat steps 3 & 4 with 7 pH buffer calibration standards.
6. Repeat steps 3 & 4 with 10 pH buffer calibration standards.
7. When you have completed the preset number of calibration points, the meter will automatically save the calibration, cease blinking, and begin pH measurement.

# Measuring pH (continued)

## General Use

1. Rinse the electrodes with clean water before taking a measurement.
2. Power the meter on and press the MODE key to select the parameter to be measured (pH or temperature).
3. Dip the probe into the water sample, swirl, and allow reading to stabilize.
4. Press the HOLD button to freeze or hold the displayed reading. Press the HOLD button again to resume live readings.
5. Record pH and temperature readings on the data sheet.
6. When finished, rinse the probe with tap water and dry with tissue paper.

## Temperature Calibration

Temperature calibration is recommended when replacing the electrode.

1. Turn the meter on and select °C mode by pressing the MODE button. Connect the temperature probe and place into a solution with a known accurate temperature such as a constant temperature water bath.
2. Press CAL to begin calibrating. The °C reading will begin to blink on the screen.
3. Compare the measured value with the reference thermometer. Use the MODE/INC button to adjust the reading to desired value.
4. Press HOLD/ENTER to confirm the value. The screen will display "CO". The meter will automatically save the calibration, cease blinking, and begin °C measurement.

## Reference:

Oakton pH 6+ Instruction Manual

[http://www.4oakton.com/Assets/manual\\_pdfs/35613-50SeriesNewerManual.pdf](http://www.4oakton.com/Assets/manual_pdfs/35613-50SeriesNewerManual.pdf)