



Operating Instructions for the Accurate pH 5.0 Meter

Specification: Accurate pH 5.0 Meter

Range:	0.0-14.0 pH - Fixed Electrode
Resolution:	0.10 pH
Accuracy:	±0.10 pH - Suitable for Laboratory and Classroom Experiments
Operating Temp:	41-122 Degrees Fahrenheit
Calibration:	2 point
Power supply:	DC 4 x 1.5 v (Four LR1130 or equivalent button cell battery)

Features

- Automatic Switch to OFF Feature in 8-10 minutes
- Water Resistant to Splash
- Low Power Consumption
- Low Battery Alarm

Replacement or Repair Warranty:

Body 12 months, electrode 6 months. Warranty covers defective parts and materials from date of purchase. Proof of purchase required. Warranty does not cover abuse or submersion for any length of time. For warranty, return the meter to the place of purchase or call CWP Instruments at 888.433.6867 for a Return Authorization Number.

Operating Manual for the Accurate pH 5.0 Meter

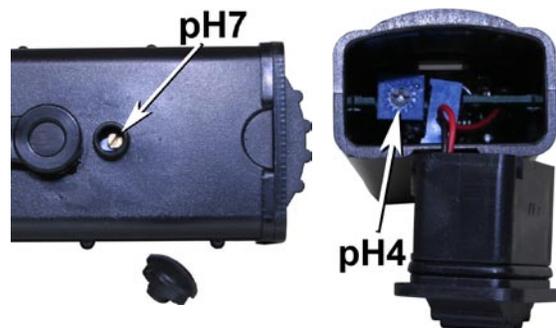
1. Remove the electrode protector and switch the meter to the ON position. If the unit cannot be switched ON or the display fades replace **all** of the old batteries with new batteries. Use only one brand of battery. Never mix battery brands.
2. If using this meter for the first time or the meter has not been used for a long time, it needs calibration for accurate readings. Skip to the calibration section. Then return to step 3.
3. Dip the meter's electrode into a small sample of the solution to be tested. Stir gently, stop and wait for the displayed value to stabilize. The readout number is the pH value of the solution. Note: Never dip the meter into or hold over a large body of solution as you may drop it in and ruin the meter. Test small samples only. See pictures.
4. Immediately after finishing your test, dip or rinse the electrode in distilled water. Stir gently. Then use tissue paper to blot the excess water from the meter's body and the electrode's glass bulb. Replace cap. Note: Do not allow the solution that you are testing to dry on the glass electrode or allow the glass electrode to dry. Also, blotting action must be carefully done in order not to damage the glass bulb.



- When storing the pH meter switch the unit to the OFF position. Complete step 4. After step 4, put a few drops of Store It! storage solution on the sponge inside the electrode protector cap to keep the glass bulb moist but not soaking. Then put the cap onto the pH meter and store it in a cool place out of direct sunlight and moisture. For extended storage time take the batteries out of the meter.
- As with any pH meter of this caliber, do not allow the electrode to dry out, as this will shorten the meter's life. For bulbs that have dried out, allow the electrode to sit in CWP's Store it™ storage solution for 12 hours before calibration is attempted. If calibration can't be obtained after soaking, place the meter's electrode into CWP's Rejuve It™ cleaning solution and brush very lightly with a soft tooth brush to remove unwanted minerals and organics from the glass bulb. If the meter still can't be calibrated the electrode's life may be over and a new meter should be purchased.

Calibration of the Accurate pH 5.0 Meter

This pH meter has a 2-point calibration system for superior accuracy. The pH 7 calibration screw is located on the back of the meter and the pH 4 calibration screw is located inside the battery compartment. The battery compartment is located at the top of the meter. Place fingernail into the notch and lift up.



Control Wizard Products recommends its brand of pH 7 and pH 4 calibration and storage solutions, as they are high quality products. Part # NT690, NT700, NT760, NT770

- Turn the meter ON and remove the battery cap. Place the meter's electrode into clean distilled water. Gently stir and then remove the meter from the water and blot the excess from the meter's body and glass electrode with a tissue.
- Dip the meter's electrode into a 7.0 pH calibration solution. If the display reads 7.0 proceed to step 3. If the display does not show 7.0, adjust the calibration screw positioned at the back of the meter's body to make it the display read 7.0.
- Now rinse the electrode with distilled water, blot dry and place it into 4.0 pH calibration solution to make sure the display reads 4.0. If the display does not show 4.0, adjust the calibration screw positioned in the battery compartment to make it the display read 4.0.
- Rinse the electrode with distilled water, blot dry and place it into 7.0 pH calibration solution. Adjust the calibration screw positioned at the back of the meter's body to make it the display read 7.0. Calibration is now complete. Replace battery compartment.
- Rinse the electrode with distilled water and blot the meter with a tissue before making your test.

Battery Replacement:

Make sure that the cap is on tight after replacing batteries/calibrating or the meter will not be water resistant.

Troubleshooting:

If you are having trouble calibrating the meter or you are seeing incorrect readings, clean or the meter's electrodes well and test. If this doesn't help, replace the batteries. Check battery quantity and their model number under specifications.