Operating Instructions for the *Accurate* pH 3 meter

Specification: Accurate pH 3 meter

Range:	0.0-14.0 pH
Resolution:	0.10 pH
Accuracy:	±0.10 pH - Suitable for Laboratory / Classroom Experiments.
Operating Temp:	33-120 Degrees Fahrenheit
Calibration:	2 point
Power supply:	DC 4 x 1.5 v (Two (2) LR44 AND Two (2) GP189 or equivalent)
Size:	160 x 25 x 24 mm
Weight:	75g

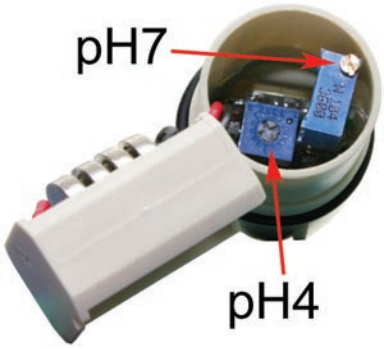
Waterproof to 1 meter for brief periods only.

Replacement or Repair Warranty: 6 months for defective parts and materials from date of manufacture. Proof of purchase required. Warranty does not cover abuse.

Operating Manual for the *Accurate* pH 3 Meter

1. Remove the electrode protector and switch the meter to the ON position.
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 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.
5. 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 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. Dry glass electrode syndrome is not covered under this warranty.* Do not store with the meter's electrode submerged in water or solutions.
6. 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 batteries. Never mix battery brands.*

 1.888.433.6867 www.cwpmeters.com



Calibration of the *Accurate* pH 3 Meter

This pH meter has a 2-point calibration system for superior accuracy. Both calibration screws are located inside the battery compartment. Turn the cap counterclockwise for removal. Battery compartment removal is necessary for calibration. 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

1. Turn the meter ON, remove the battery cap and pull the battery compartment out of the body. Let it hang to the side of the body. Place the meters 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.
2. 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 top of the battery compartment to make it the display read 7.0.
3. 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 at the bottom of the battery compartment to make it the display read 4.0.
4. Rinse the electrode with distilled water, blot dry and place it into 7.0 pH calibration solution to make sure the display reads 7.0. If the display does not show 7.0, adjust the calibration screw positioned at the top of the battery compartment to make it the display read 7.0.
5. Calibration is complete when the display reads 7.0. 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 screwed on tight after replacing batteries/calibrating or the meter will not be waterproof.

Note: Inaccurate readings with good batteries generally mean the electrode needs to be replaced. Contact your local supply store for a replacement. Part Number CW504