

OAKTON®  
pHTestr® 30 Pocket Testers

Thank you for purchasing an Oakton® pHTestr® Pocket pH Tester. Please carefully read this operating manual before using the product to obtain an accurate and reliable test result and avoid unnecessary damage to the tester or sensor/probe.



Features

- Large easy-to-read LCD with 3-color backlight
- Accuracy of ±0.01 pH is 1-digit
- 1, 2, or 3 calibration points
- Auto-buffer recognition, USB or NIST
- Stability and battery status icons
- Replaceable double-junction sensor saves your money
- Auto power-off function conserves battery life
- IP67 waterproof rating

- No air bubbles generating in true gel inner solution
- Built protector can avoid impacting. Remove it to rinse the probe.



Keypad Functions

Short press = <2 seconds    Long press = >2 seconds

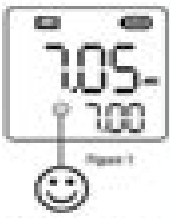
	<ol style="list-style-type: none"><li>1. Short press to turn on the tester and long press to turn off the tester.</li><li>2. When turned off, long press to enter parameter setting mode.</li><li>3. In measurement mode, short press to turn on backlight.</li></ol>
	<ol style="list-style-type: none"><li>1. In measurement mode, short press to switch parameter from pH to ORP (Oxidation Reduction Potential). ORP probe sold separately.</li><li>2. In parameter setting mode, short press to change parameter (unidirectional).</li></ol>
	<ol style="list-style-type: none"><li>1. Long press to enter calibration mode.</li><li>2. In calibration mode, short press to confirm calibration.</li><li>3. When measured value is locked (HOLD icon), short press to unlock.</li></ol>

Preparation Before Use

If it is first-time use or the tester hasn't been used for a long time, pour some 3M KCL solution to the Fill line in the probe cap and soak the probe for about 15 to 30 minutes. Users can store the probe in the 3M KCL solution in the probe cap when the tester is not in use to maintain the sensor's accuracy. To achieve maximum accuracy, we recommend soaking the probe in the 3M KCL storage solution overnight (12 hours) to activate the glass membrane thoroughly. Storing the pH test dry will NOT cause any permanent damage. It will only temporarily cause the probe to lose its sensitivity, which can always be restored by soaking in the storage solution.

pH Calibration

1. Short press <MEAS> key to turn on.
2. Rinse the probe in distilled water and use tissue paper to gently dab off excess water.
3. Pour certain amount (about half volume of the calibration bottles) of pH 7.00 pH and pH 4.00 buffer solutions in the corresponding calibration bottles.
4. Long press <CAL/> key to enter calibration mode, short press <MEAS> key to return to measurement mode.
5. Dip the probe in pH 7.00 buffer solution, stir gently, and allow it to stand still in the buffer solution until a stable reading is reached. When measurement stability icon (S) appears and remains on the screen (see Fig 1), then short press <CAL/> key to complete the one-point calibration. The tester returns to measurement mode and indication icon "M" will appear at the bottom left of the screen, indicating the middle point of calibration has been completed.
6. For 2-point calibration, start with pH 7.00 buffer solution, once confirmed then rinse the probe in distilled water and dry it with tissue paper. Dip the probe into pH 4.00 buffer solution, follow the steps above to complete 2-point calibration. Indication icons "L" and "M" will appear on the bottom left of the screen.
7. If necessary to perform a 3-point calibration, rinse probe with water, dip the probe into pH 10.01 buffer solution (sold separately), and follow the steps above. Indication icons "L", "M", and "H" will appear on the bottom left of the screen.



Notes

- A. Tester can perform 1 to 3 points automatic calibration. Please note that pH 7.00 (USA Standard) or pH 6.86 buffer solution (NIST Standard) must be used to conduct 1st point calibration. Then use other buffer solution to conduct 2nd or 3rd point calibration. Tester will automatically recognize five kinds of pH buffer solutions. For details, please refer to the following table:

Calibration	USA series	NIST series	Indication icons	Recommended
1-point	7.00 pH	6.86 pH	M	Accuracy ±0.1 pH
2-point	7.00 pH, 4.00 pH or 5.68 pH	6.86 pH, 4.01 pH or 1.68 pH	L M	Range <7.00 pH
	7.00 pH, 10.01 pH or 12.45 pH	6.86 pH, 9.18 pH or 12.45 pH	M H	Range <7.00 pH
3-point	7.00 pH, 4.00 or 1.68 pH, 10.01 or 12.45 pH	6.86 pH, 4.01 or 1.68 pH, 9.18 or 12.45 pH	L M H	Range: 0 to 14.00 pH

- B. The buffer solutions poured into the calibration bottles are NOT for one-time use. They can be used multiple times as long as they are not contaminated, and the bottles are covered when not in use. After that, we recommend replacing the buffer solutions in the calibration bottles with new ones that are in the buffer bottles (50 mL) to keep the accuracy of the standard buffer solutions. Do not pour used buffer solutions back into the buffer bottles in case of contamination.

C. The tester has self-diagnostic functions.

Symbol	Self-diagnostic information	Checking and how to fix
Er 1	Wrong pH buffer solution or the range of calibration solution exceeds standard.	<ol style="list-style-type: none"><li>1. Check whether pH buffer solution is correct (1st point calibration must be 7.00).</li><li>2. Check whether the probe is damaged.</li><li>3. Check if there is any air bubble in the glass bulb sensor.</li></ol>
Er 2	Press <CAL/> key when reading is not stable during measurement.	Wait for the measurement stability icon (S) to appear and stay, then press <CAL/> key.

\* The 1st point calibration must be 7.00 pH. Perform the 2nd point calibration (4.00 pH) immediately after the 1st point. Do NOT turn off the meter before you conduct 2nd point calibration. If the meter is turned off after 1st point calibration, user will need to restart the calibration process with the 7.00 pH first and the 4.00 pH following after. Calibrating directly in pH 4.00 after turning meter off and back on will cause "Er1".

pH Measurement

1. Short press <MEAS> key to turn on the tester. Rinse the probe in distilled water, and gently dab off excess water with tissue paper (do not rub or wipe the glass sensor).
2. Dip the probe in sample solution, stir gently, and allow it to stand until a stable reading is reached. Take readings after stability indicator icon (S) appears and stays on the screen.

Notes

- A. Applications:

Model/Probe	Application
pH05Bute probe	Regular water solutions' pH measurement such as hydroponics, aquaculture, pools and spas, water treatment, brewing, etc.

Special Notes

- The pH probe must be rinsed thoroughly after each use. Soap water should be used to clean off any grease or other contaminants.
- These pH testers will NOT give accurate or stable pH readings when testing distilled or deionized water. This is because distilled or deionized water do not have enough ions present for the electrode to function properly. To measure distilled or deionized water's pH, users need to use a specialized instrument technique. When testing purified water like spring water or drinking water, it will take longer for the readings to get stabilized (typically 3 to 5 minutes) because there are very few ions left to be detected by the sensor in those purified water.
- Do NOT store probe in distilled or deionized purified water because that will cause permanent damage to the pH probe. Purified water is only recommended for rinsing the probe. The probe should be stored in 3M KCL pH electrode storage solution (SKU 00653-04) for best accuracy.

Setting the Parameters

When tester is turned off, long press <MEAS> key to enter parameter setting. Short press <MODE/> key to switch from pH to

# Oakton Phtestr 30 Manual

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