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**Instruction Sheet**

# Waterproof pHTestr 2



Microprocessor based,  
**pH Tester 2**  
with ATC that floats!

35624-22



## Waterproof pHTestr 2 Microprocessor-based Pocket pH Tester

**BEFORE USE:** DO NOT BE ALARMED if white crystals form around the cap. This is normal.

**CONDITIONING:** Condition the unit before first use. Remove cap, immerse electrode in tap water for 1 hour. This activates electrode and dissolves crystals.

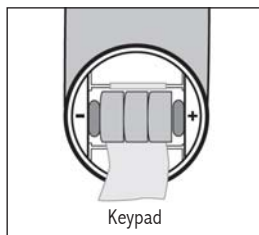
**CALIBRATION:** This tester allows up to 3-point calibration. Start with pH 7 buffer. Press ON/OFF button to power on. Immerse electrode in chosen buffer about 2 cm deep and stir gently. Wait for displayed value to stabilize at or near the pH buffer chosen. Next, press the CAL button to enter calibration sequence. When display flashes continuously, press HOLD/CON button to confirm. If necessary, proceed to next buffer value (pH 4 or pH 10) and repeat the calibration procedure. You have successfully calibrated the instrument.

**pH TESTING:**

- Remove cap and press ON/OFF button on the keypad to turn on the pHTestr 2
- Dip the electrode about 2 cm into the test solution
- Stir once, let the display stabilize. Note the pH
- Press HOLD/CON button if you wish to hold the reading. Press again to release
- Press the ON/OFF button to shut off
- Tester automatically shuts-off after 8.5 minutes to conserve batteries!

**MAINTENANCE IS EASY:** Rinse the electrode in tap water after use. In harsh samples, take readings quickly, rinse electrode immediately afterwards with tap water to remove residues and prevent electrode contamination. To maximize electrode life, place a small piece of clean cloth or sponge in the cap, moisten with tap water (NOT DE-IONIZED WATER), and replace cap.

**CHANGING BATTERIES:** Twist open the battery compartment lid. Remove old batteries and replace with fresh ones noting polarity as shown in battery compartment. Re-calibrate after battery change.



**USEFUL NOTE:**

- To avoid cross contamination, rinse between samples and buffer with tap water
- Calibration should be done regularly or daily to ensure good tester accuracy.

**ERROR MESSAGES:**

- E1** - Weak batteries. Need replacement.
- E2** - Wrong or bad buffer value (out of range) or the electrode is failing.
- OR** - Over range signal or electrode is not in contact with sample solution.

▶ **Twist-off Battery Compartment**



▶ **Amplified Electrode**



▶ **Lanyard Connection**



▶ **Replaceable Sensor**



## SPECIFICATIONS

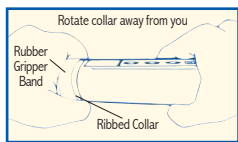
Model	pHTestr 1, 2
pH Range	-1.0 to 15.0 pH
Resolution	0.1 pH
Accuracy	pHTestr 1: $\pm 0.2$ pH pHTestr 2: $\pm 0.1$ pH
ATC	Yes (Except pHTestr 1)
Calibration	pHTestr 1: 1-point (4.0, 7.0 or 10.0) pHTestr 2: 3-point (4.0, 7.0 & 10.0)
Auto Power-Off/Hold	Yes
Auto-Buffer Recognition	Yes (pH 4, 7, & 10)
Battery Life	3 x 1.4V (Type: A 76, LR44, V13GA); >60 hours
Dimension/Weight	Tester: 15 x 3.8 cm; 90g Boxed: 18.5 x 7 x 5 cm; 170g

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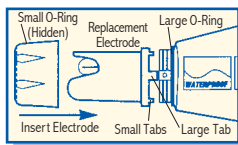
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www.4oakton.com**

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68X247809 2/05 Rev 3

### (Picture A) REMOVE THE OLD ELECTRODE



### (Picture B) REPLACE THE ELECTRODE



**ELECTRODE REPLACEMENT:** One of the benefits in selecting the Waterproof pH tester is that you can now replace the electrode whenever needed keeping the body of the tester intact. When the tester fails to calibrate, gives fluctuating readings in buffers, or shows error messages 'E2' or 'OR' in a buffer, and the procedures in the maintenance section do not help, you need to change the electrode (see pictures for instructions). • With dry hands firmly grip the ribbed collar (Picture A) and slowly twist the body counter clockwise until it is completely removed. Save both the electrode module collar and O-ring inside for later use. Pull the old electrode module straight out from the bottom of the tester • Align the four tabs on the new module so they match the four slots on the tester (Picture B). Note: Older testers may have only two slots. In this case, break off the two small tabs using a needle-nose pliers • Gently push the module onto the bottom end to fully seat it in position. Put the small O-ring all the way into the ribbed collar. Then push the collar on over the module and hand-tighten by firmly twisting it clockwise.