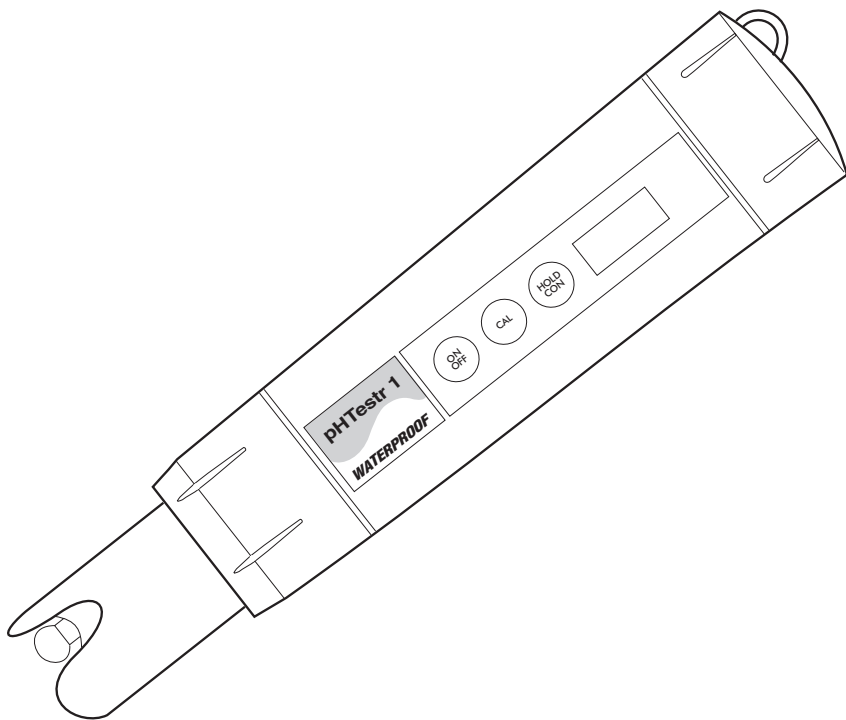


# pH Waterproof Testr 1

5-0008



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[www.lamotte.com](http://www.lamotte.com)

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# Specifications

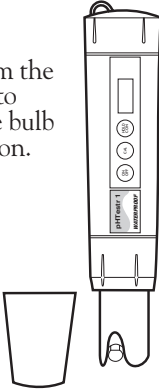
Range:	-1.0 to 15.0 pH extended range
Resolution:	0.1 pH
Accuracy:	$\pm 0.2$ pH
Operating Temperature:	0 to 50 °C, 32 to 122 °C
Battery/Life:	Three 1.5V Eveready A76BP/24 hours or equivalent
Size (meter only):	6.5" X 1.5"
Weight (meter only):	3.25 oz (90 g)

## Before First Use

**1.**

Remove the cap from the bottom of the Testr to expose the electrode bulb and reference junction.

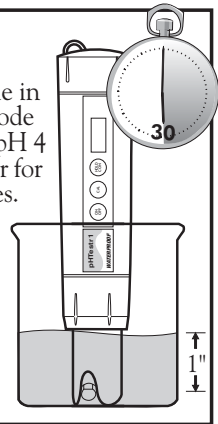
Do not be alarmed if white crystals are present in the cap or electrode assembly. They will dissolve during the pre-soak.



**2.**

Soak the electrode in about 1" of electrode storage solution, pH 4 buffer or tap water for at least 30 minutes.

If the electrode dries out between uses, recondition it by following this soaking procedure.

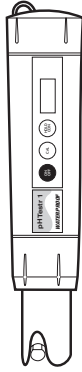


# Calibration

Calibration should be done regularly, typically every day that the Testr is used.

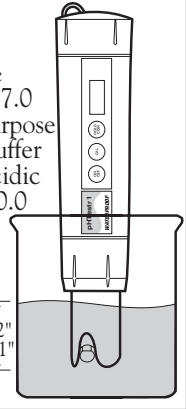
**1.**

Turn the Testr on by pressing the ON/OFF button.



**2.**

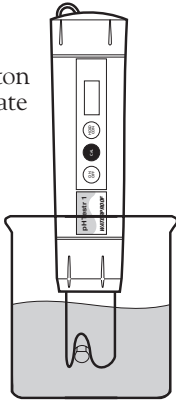
Dip 1/2" to 1" of the electrode into a pH 7.0 buffer for general purpose use, into a pH 4.0 buffer solution if testing acidic solutions, or a pH 10.0 buffer if testing alkaline (or basic) solutions. If testing solutions close to 7.0, use the 7.0 buffer for calibration.



**3.**

Press the CAL button to enter the Calibrate (CA) mode.

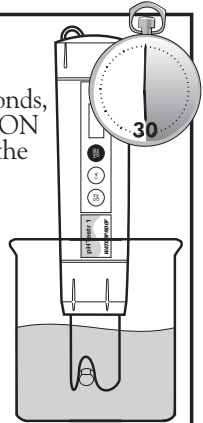
The display will flash "CA" and then a pH value close to the buffer value will flash repeatedly.



**4.**

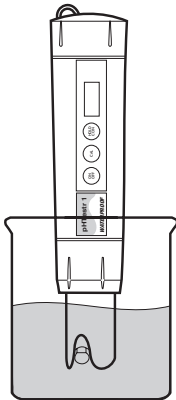
After about 30 seconds, press the HOLD/CON button to confirm the calibration.

"CON" will appear on the display. It will then switch back to a pH reading of the buffer.



**5.**

Rinse the electrode with deionized water or tap water.

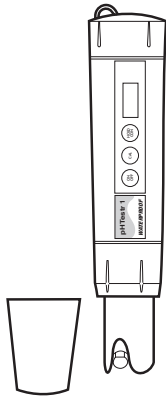


No further calibration is needed if all measurements are expected to be between pH 6 and pH 8 for general purpose use. Perform the calibration using pH 4.0 buffer if readings below pH 6 are expected. Perform the calibration using pH 10.0 buffer if readings above pH 8 are expected.

# pH Testing

**1.**

Remove the cap from the Testr.



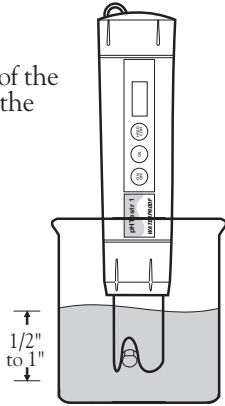
**2.**

Press the On/Off button to turn the Testr on.



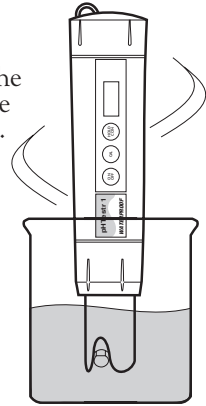
**3.**

Dip 1/2" to 1" of the electrode into the solution.



**4.**

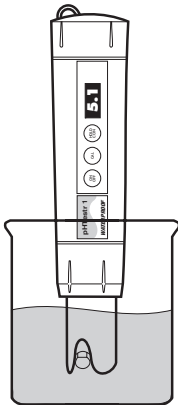
Stir once with the probe and let the reading stabilize.



**5.**

Record the pH.

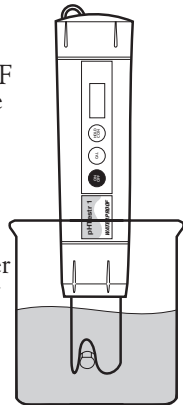
Or press the HOLD/CON button to freeze the reading. Press the HOLD/CON button again to release the reading.



**6.**

Press the ON/OFF button to turn the Testr off.

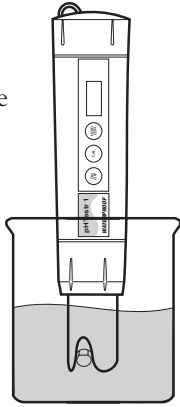
If a button is not pushed for 8.5 minutes, the meter will automatically shut off.



# Maintenance

**1.**

Rinse the electrode with deionized water or tap water after each measurement.

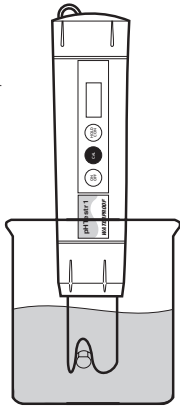


**2.**

In aggressive chemicals, dirty, or viscous solutions, and solutions with heavy metals or proteins, take readings quickly and rinse the electrode immediately after use.

**3.**

Periodic soaking in warm pH 4 buffer will help remove any contaminants that will ruin the electrode.



**4.**

Keep a small piece of paper or sponge, moistened with tap water or pH 4 buffer, in the Testr cap to keep the probe moist during storage.



**5.**

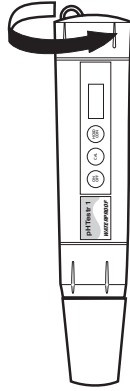
Electrode life will be shortened when a Testr is used in applications where the electrode is exposed to materials that will contaminate the electrode reference junction.

# Changing the Batteries

The battery compartment is located under the cap with the lanyard loop.

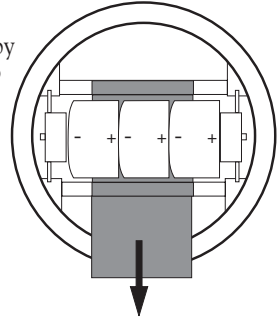
**1.**

Firmly grip the cap and the Testr body with dry hands. Slowly twist the cap counter-clockwise. The cap must be tight to ensure a watertight seal so it will require some effort to loosen it.



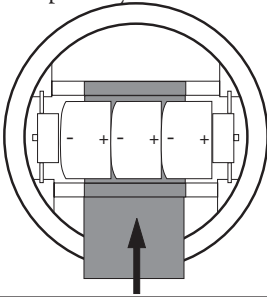
**2.**

Remove the old batteries by pulling up the cloth tab.



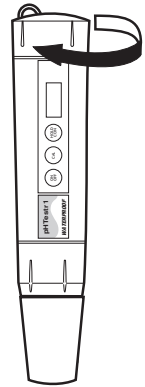
**3.**

Reposition cloth tab and insert new batteries. Note polarity. Tuck in the cloth tab.



**4.**

Replace the cap. Tighten until the black O-ring is completely hidden under the cap and the lanyard loop is lined up with the face plate.

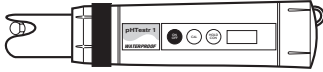


# Electrode Replacement

Replace the electrode module when the Testr fails to calibrate, gives fluctuating readings in buffers, shows error messages "E2" or "OR", and the procedures in the maintenance section fail to resolve the problem.

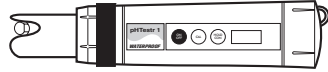
**1.**

Place the rubber gripper band over the collar of the Testr.



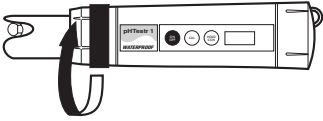
**2.**

Firmly grip the rubber gripper band and the ribbed collar of the Testr with dry hands.



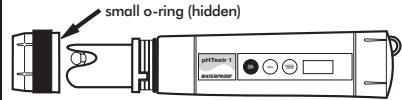
**3.**

Slowly twist counter-clockwise to loosen the collar.



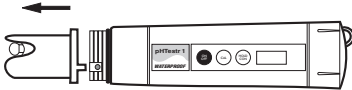
**4.**

Unscrew the ribbed electrode module collar and remove it. Save the collar and the O-ring.



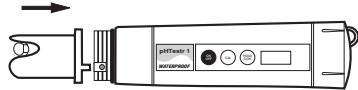
**5.**

Pull the electrode module straight out from the bottom of the Testr.



**6.**

Align the four tabs on the new electrode module to match the four slots on the Testr.



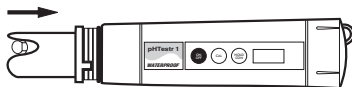
## Electrode Replacement

Note: For older models with only two slots, break off the two small tabs using needle-nosed pliers.



**6.**

Gently push the electrode module into the bottom of the Testr to fully seat it in position.



**7.**

Put the smaller O-ring all the way into the ribbed collar.



**8.**

Push the collar on over the module. Thread it into place by firmly twisting it clockwise until the larger O-ring that is near the faceplate disappears under the ribbed electrode module collar.



## Self-Diagnostic Messages

ER1	Batteries are low and need replacing
ER2	Wrong or bad buffer value (out of range) or the electrode is failing. Check buffers or replace electrode.
OR	Over range signal from voltage in a solution, the electrode is not contacting the solution, or the electrode is failing. Check solution or replace electrode.

## Accessories

Replacement probe	5-0009
Buffers (4, 7, 10)	2866, 2881, 2896
Mini buffer tablets (4, 7, 10)	3983, 3984, 3985