# eco Testr pH 1



*Batteries included*

| Specifications | |
|---|---|
| Range | 0.0 to 14.0 pH |
| Resolution | 0.1 pH |
| Accuracy | ±0.1 pH |
| Calibration | 1-point (4.0, 7.0 or 10.0), auto-recognition. Calibration standard(s) sold separately |
| Non-Volatile Memory | Yes |
| Hold Function | Yes |
| Auto-Off | 8.5 mins after last key press |
| LCD Display | 3½ digit with annunciator |
| Power | (4) A76 / LR44 batteries included |
| Operating Temp. | 0 to 50 °C |
| Ingress Protection | IP67 rating ; waterproof |
| Dimension (LxWxH)/Weight | Tester: 16.3 x 4.5 x 3 cm ; 90 g<br>Packed : 24.5 x 13.5 x 4.5 cm ; 137 g |

**Applications**

• Hydroponics • Agriculture • Aquaculture & Aquariums • Pools & Spas • Education • Cooling Towers and more!

◁ Please refer to inside for operating instructions

Pocket clip >





< Transparent cap for samples and storage

*Part of Thermo Fisher Scientific*

CE

1 Year Warranty

Made in Singapore

35423-00

N374

68X461008 08/10 Rev A

# eco Testr pH 1

pH 0.0 to 14.0 pH

## Solutions For Water Analysis






Aquaculture/Aquariums



Swimming Pools



Hydroponics/Agriculture

- Auto Buffer Recognition
- Accurate Results
- Easy To Use
- Waterproof

EUTECH INSTRUMENTS

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# Operating Instructions EcoTestr pH 1 Waterproof Pocket Tester

**Conditioning Before First Use:** Precipitation of the sensor electrolyte may cause white crystals to form around the cap. This is normal and does not affect the tester's performance.

1. Remove the transparent cap and add 20 mm of tap water or pH buffer (approximately ½ full)
2. Recap the EcoTestr and soak* for one hour (or less if sensor was recently hydrated)
3. Rinse the cap after use
4. The sensor is now activated and ready for use

**Measurement:**

1. Remove cap and press ⏻ to turn on the tester
2. Dip sensor in at least 20 mm of test solution
3. Stir once and let the reading stabilize. Note the measured value
4. To hold reading, press hold/ent. Screen flashes HO once, then displays measurement with blinking unit (pH) to indicate that tester is in the hold mode. Press hold/ent again to cancel hold mode (HC)
5. Press ⏻ to shut the tester off

***Note:*** *Tester automatically shuts off after 8.5 minutes of non-use to conserve batteries.*

**Calibration:** The EcoTestr is factory calibrated. However, to ensure accuracy, regular calibration is recommended. ***Note:*** *Calibration standard(s) sold separately.*

1. Select pH 7.0 buffer for general testing; pH 4.0 for acidic and pH 10.0 for alkaline samples
2. Press ⏻ to turn on the tester
3. Dip sensor in desired pH standard buffer, stir gently and wait for the value to stabilize
4. Press cal to begin the calibration. Display shows CAL momentarily, then blinks the default reading
5. To accept the calibration, press hold/ent. If successful, (Ent) is shown and after a few seconds measurement is resumed
6. To abort calibration, press cal to escape (ESC)

**Maintenance:**

1. Rinse sensor with clean water after each use
2. In harsh samples, take readings quickly, then rinse sensor immediately to remove residues and prevent electrode contamination

**Useful Notes:**

1. To avoid cross contamination, rinse between samples and calibration standards with clean water
2. To maintain tester accuracy, calibrate at regular intervals as required
3. For long-term storage, fill cap with 20 mm of storage solution (NOT de-ionized water) and replace cap*. This will keep sensor conditioned and ready for next use
4. Not recommended for prolonged use with solutions containing heavy metals, proteins, tris, or sulfides which will clog the junction leading to slow response and eventual failure

** The tester cap is not leak-proof. Please keep tester upright during soaking.*

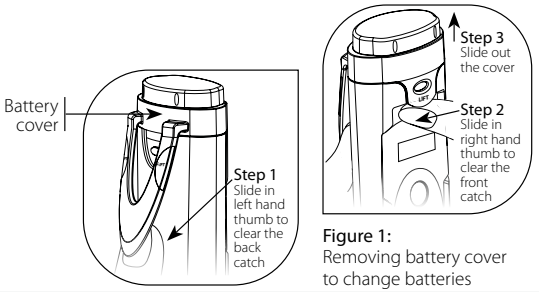



**Figure 1:** Removing battery cover to change batteries

**Changing Batteries:**

1. To remove batteries, hold the tester on the left hand with the left thumb slide under the back clip of the cover. This will release the back catch
2. Next, hold the cover with your right hand, at the same time release the front catch with your right thumb. Slide up to remove the battery cover (Figure 1)
3. Replace old batteries with fresh ones. Note polarity as shown in battery compartment
4. No re-calibration is required after battery change. The tester's non-volatile memory function retains calibration settings

*Your EcoTestr includes (4) pre-installed 1.5V alkaline batteries. LR44 or A76 battery types are suitable and commonly available. Replace all (4) batteries together. Waiting too long to replace the batteries can lead to inaccurate readings and is the most common cause of problems.*

**Error Messages:**

1. bAt – Batteries are weak and need replacement
2. Err – Wrong or bad buffer value (out of range) and/or the sensor is failing. Use fresh buffer. Replace batteries. Note: when sensor fails, it cannot be replaced
3. Or/Ur – Over or Under range signal; sensor is dry/contaminated/damaged/not fully immersed

**Reset Option:** Reset option allows you to restore the calibration back to factory default settings.

1. Press ⏻ to turn off tester
2. Press and hold hold/ent, then press ⏻ to turn the tester on. The display shows a flashing rSt (reset)
3. Press hold/ent again to confirm reset (Ent) or press cal to escape (ESC) reset option

**Warranty:** This instrument is supplied with a warranty against manufacturing defects for a period of one year from date of purchase.

**Tester & Accessories Ordering Information:**

| Eutech Order Code | Oakton Order Code | Description |
|---|---|---|
| ECOPHTEST1 | 35423-00 | EcoTestr pH 1 |
| ECPOUCH01 | 35624-45 | Soft carrying case with belt-loop |
| ECBU4BT | 00654-00 | pH 4.01 buffer solution, 480 ml bottle |
| ECBU7BT | 00654-04 | pH 7.00 buffer solution, 480 ml bottle |
| ECBU10BT | 00654-08 | pH 10.01 buffer solution, 480 ml bottle |
| ECRE005 | 00653-04 | Storage solution for pH sensor, 480 ml bottle |
| ECDPCBT | 00653-06 | Sensor cleaning solution, 480 ml bottle |

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