Specifications

- **Range**: 0.0 to 14.0 pH
- **Resolution**: 0.1 pH
- **Accuracy**: ±0.1 pH
- **Calibration**: Up to 3-point (4.0, 7.0, 10.0), auto-recognition. Calibration standard(s) sold separately
- **Automatic Temperature Compensation**: Yes
- **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 ºC
- **Ingress Protection**: IP67 rating; waterproof
- **Dimension (LxWxH)/Weight**: Tester: 16.3 x 4.5 x 3 cm; 90 g
  Packed: 24.5 x 13.5 x 4.5 cm; 137 g

Applications

- Hydroponics
- Agriculture
- Aquaculture & Aquariums
- Pools & Spas
- Education
- Cooling Towers
- Water Treatment
- Environmental Monitoring
- Food & Beverage Manufacturing
- Printing and more!

Solutions For Water Analysis

- **Auto Buffer Recognition**
- **3-Point Calibration**
- **Automatic Temperature Compensation**
- **Waterproof**
Operating Instructions  EcoTestr pH 2 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 \( \Box \) 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 \( \Box \). Screen flashes \( \Box \) once, then displays measurement with blinking unit (pH) to indicate that tester is in the hold mode. Press \( \Box \) again to cancel hold mode (HC)
5. Press \( \Box \) 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. This tester allows up to 3-point calibration. Start with pH 7.00 buffer
2. Press \( \Box \) to turn on the tester
3. Dip sensor in pH buffer, stir gently and wait for the value to stabilize
4. Press \( \Box \) to begin the calibration. Display blinks CAL momentarily, then blinks the default reading
5. To accept the calibration, press \( \Box \) If successful, (Enb) is shown and after a few seconds measurement is resumed
6. To calibrate additional point(s), repeat steps 3-5 using pH 4.0 and/or pH 10.0 buffer(s)
7. To abort calibration, press \( \Box \) 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

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

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. \( \text{bAl} \) – Batteries are weak and need replacement
2. \( \text{Err} \) – 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. \( \text{Or/Ur} \) – 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 \( \Box \) to turn off tester
2. Press and hold \( \Box \), then press \( \Box \) to turn the tester on. The display shows a flashing \( \text{St} \) (reset)
3. Press \( \Box \) again to confirm reset (Enb) or press \( \Box \) 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:

<table>
<thead>
<tr>
<th>Eutech Order Code</th>
<th>Oakton Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECOPHTEST2</td>
<td>35423-10</td>
<td>EcoTestr pH 2</td>
</tr>
<tr>
<td>ECOPOUCH01</td>
<td>35624-45</td>
<td>Soft carrying case with belt-loop</td>
</tr>
<tr>
<td>ECBU4BT</td>
<td>00654-00</td>
<td>pH 4.01 buffer solution, 480 ml bottle</td>
</tr>
<tr>
<td>ECBU7BT</td>
<td>00654-04</td>
<td>pH 7.00 buffer solution, 480 ml bottle</td>
</tr>
<tr>
<td>ECBU10BT</td>
<td>00654-08</td>
<td>pH 10.01 buffer solution, 480 ml bottle</td>
</tr>
<tr>
<td>ECRE005</td>
<td>00653-04</td>
<td>Storage solution for pH sensor, 480 ml bottle</td>
</tr>
<tr>
<td>ECDPCBT</td>
<td>00653-06</td>
<td>Sensor cleaning solution, 480 ml bottle</td>
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