## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Range</strong></td>
<td>.. to 10.00 ppt</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>0.1 ppt</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>±1 % full scale (±2 % above 5 ppt)</td>
</tr>
<tr>
<td><strong>No. Of Cal Points</strong></td>
<td>1 point; calibration standard sold separately</td>
</tr>
<tr>
<td><strong>Calibration Method</strong></td>
<td>Digital, push button</td>
</tr>
<tr>
<td><strong>TDS Factor</strong></td>
<td>0.50 to 1.00 (factory set to 0.71)</td>
</tr>
<tr>
<td><strong>Automatic Temperature Compensation</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Non-Volatile Memory</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Hold Function</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Auto-Off</strong></td>
<td>8.5 mins after last key press</td>
</tr>
<tr>
<td><strong>LCD Display</strong></td>
<td>3½ digit single line</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>(4) A76 / LR44 batteries included</td>
</tr>
<tr>
<td><strong>Operating Temp.</strong></td>
<td>0 to 50 ºC</td>
</tr>
<tr>
<td><strong>Ingress Protection</strong></td>
<td>IP67 rating ; waterproof</td>
</tr>
</tbody>
</table>
| **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
- Environmental Monitoring
- Water & Wastewater Treatment
- Cooling Towers
- Electroplating Rinse Tanks
- Drinking Water
- Detergent
- Printing
- Photo-Development and more!
Operating Instructions  EcoTestr TDS High Waterproof Pocket Tester

Conditioning Before First Use:
1. Remove the transparent cap and add 20 mm of tap water or calibration standard (approximately ½ full)
2. Recap the EcoTestr and soak* for at least 15 minutes
3. Rinse the cap after use
4. The sensor is now activated and ready for use

Measurement:
1. Remove cap and press \( \text{HO} \) to turn on the tester
2. Dip sensor into the test solution
3. Stir once and let the reading stabilize. Note the measured value
4. To hold reading, press \( \text{HO} \). Screen flashes \( \text{HC} \) once, then displays measurement with blinking unit (ppt) to indicate that tester is in the hold mode. Press \( \text{HO} \) again to cancel hold mode (\( \text{HC} \))
5. Press \( \text{ESC} \) to shut the tester off

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

TDS Factor Setting: The EcoTestr TDS High has a default factor setting of 0.71. If this is suitable for your application, please skip this section and proceed on to calibrate.
1. Press \( \text{CAL} \) to turn off the tester
2. Press and hold \( \text{CAL} \), then press \( \text{CAL} \) to turn the tester on. The display shows \( \text{tDS} \)
3. Press \( \text{CAL} \) to scroll to TDS factor value
4. Release \( \text{CAL} \) and wait for the auto confirmation
5. To abort TDS factor setting, press \( \text{CAL} \) to escape (\( \text{ESC} \))

Calibration: The EcoTestr is factory calibrated. However, to ensure accuracy, calibration is recommended. Note: Calibration standard sold separately.
1. If the sensor was stored dry, follow “Conditioning Before First Use” steps for best results
2. Press \( \text{HO} \) to turn on the tester
3. Dip sensor into calibration standard solution and wait for the value to stabilize
4. Press \( \text{HO} \) to begin the calibration. Display shows \( \text{CAL} \) momentarily and blinks the default reading
5. Press \( \text{HO} \) until the blinking value matches the value of your calibration standard at 25 ºC. Note: to set a calibration standard value that is lower than the blinking value, continue to press \( \text{HO} \) past the maximum value to continue with the lowest adjustable value
6. Release \( \text{HO} \) to accept the calibration value. After a few seconds, (\( \text{En}\text{t} \)) is shown and measurement is resumed
7. To abort calibration, press \( \text{HO} \) to escape (\( \text{ESC} \))

Maintenance: Clean the stainless steel sensors by periodically soaking them in alcohol for 10 - 15 minutes. Rinse sensor with clean water after each use.

Useful Notes: To avoid cross contamination, rinse between samples and calibration standards with clean water.
* 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. \( \text{Er} \) – Calibration was attempted with a value that is <5 % of the full-scale range; use a calibration standard with a higher value
   - Use fresh calibration standard
   - Sensor is dirty or has not been soaked
3. \( \text{Or} \) – Over Range. The measurement is above the range of the instrument (including temperature measurement)

Reset Option: Reset option allows you to restore the calibration back to factory default settings.
1. Press \( \text{HO} \) to turn off tester
2. Press and hold \( \text{HO} \), then press \( \text{HO} \) to turn the tester on. The display shows a flashing \( \text{rSt} \) (reset)
3. Press \( \text{HO} \) again to confirm reset (\( \text{En}\text{t} \)) or press \( \text{HO} \) to escape (\( \text{ESC} \)) 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>ECOTDSTESTHIGH</td>
<td>35462-15</td>
<td>EcoTestr TDS High</td>
</tr>
<tr>
<td>ECPOUCH01</td>
<td>35624-45</td>
<td>Soft carrying case with belt-loop</td>
</tr>
<tr>
<td>EC4423000BT</td>
<td>–</td>
<td>3.00 ppt 442 calibration solution</td>
</tr>
<tr>
<td>–</td>
<td>00653-89</td>
<td>7.61 ppt 442 calibration solution, 480 ml</td>
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