

## Effective June 15, 2011: Conductivity Meter Product Change

### ECO Testr EC Low Waterproof Pocket Tester by Oakton Instruments




#### Product specifications:


<b>Range</b>	0 - 1990 $\mu\text{S}/\text{cm}$
<b>Resolution</b>	10 $\mu\text{S}/\text{cm}$
<b>Accuracy</b>	$\pm 1\%$ full scale
<b>Number of Calibration Points</b>	1
<b>Calibration Method</b>	Digital, push button
<b>Auto-Off</b>	8.5 minutes after last key press
<b>Operating Temp</b>	0 - 50°C
<b>Battery Power</b>	4 x 1.5 V 'A76' micro alkaline batteries
<b>Automatic Temperature Compensation</b>	Yes

**Note: Before calibrating for the first time, soak sensor for 10 minutes in alcohol to remove oils. Rinse in clean tap water.**

#### Calibration Instructions

1. Remove sensor cap and press  button to turn on.
2. Dip sensor fully into calibration solution and wait for value to stabilize.
3. Press "cal" button to enter calibration mode. Display will flash "CAL" and a default value will appear.
4. Press "hold/ent" button to scroll to the standard solution value (1000  $\mu\text{S}/\text{cm}$ )
5. Release "hold/ent" and wait for auto confirmation
6. To abort calibration, press "cal" button to escape.
7. The meter is now calibrated.

#### Testing Instructions

1. Turn meter on.
2. Dip sensor fully into test solution and stir once to let the reading stabilize.
3. Once stabilized, note and record reading.
4. To hold reading, press "hold/ent". The screen will flash "HO" once, and display measurement. Press "hold/ent" to cancel hold mode.
5. Press  to turn off. Wipe sensor dry and replace cap.

#### Troubleshooting Error Messages:

- "BAT" – Batteries are weak and need replacement
- "Er" – Calibration is performed on solution value below 5% of full-scale range. Always use 1000  $\mu\text{S}/\text{cm}$  calibration solution provided by the VWQM Program.
- "Or" – measurement is Over Range, or higher than 1990  $\mu\text{S}/\text{cm}$ .

#### Changing Batteries:

1. To remove batteries, lift up the front battery cover to release the front catch. Push up and hold in that position.
2. Next, lift the pocket clip release to release the back catch and slide upwards to remove the battery cover.
3. Replace old batteries with fresh ones. Note polarity as shown in the battery compartment. Battery type is 1.5 V A76 micro alkaline batteries.
4. Replace top battery cover.

#### Special Notes:

- Periodically clean the stainless steel sensor by rinsing with alcohol for 10-15 minutes. Rinse the sensor in clean water and dry completely after each use to avoid rusting of sensor.
- To avoid cross-contamination, rinse between samples and calibration standards with de-ionized water.

