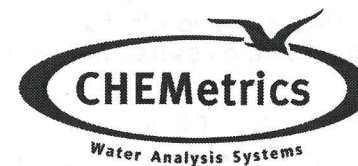


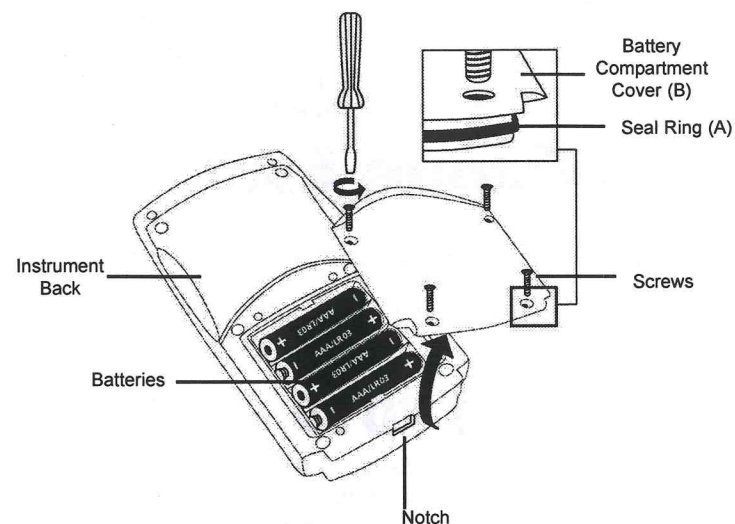
# **Ozone SAM**

**I-2019**

**0.20 to 5.00  
PPM (mg/Liter)**



## Battery Replacement



To ensure that the instrument is water proof:

- seal ring (A) must be in position
- battery compartment cover (B) must be fixed with the four screws

### To Set Zero

1. Press the Power key.
2. The display will show "03".
3. Insert the ZERO ampoule (supplied in vacu-vials kit), flat end first, into the sample cell compartment (with mild downward pressure), making sure that it is fully seated.
4. Place the light shield over the ZERO ampoule.
5. Press the Zero/Test key. The "03" symbol will flash for approximately 8 seconds, then the display will show "0.0.0".

### To Make a Measurement

1. Follow the Test Procedure in the Ozone Vacu-vials test kit (Cat. # K-7423).
2. Insert the resulting Ozone Vacu-vial ampoule, flat end first, into the sample cell compartment (with mild downward pressure), making sure that it is fully seated.
3. Place the light shield over the test ampoule.
4. Press the Zero/Test key. The "03" symbol will flash for approximately 3 seconds, then the sample test results will appear in the display as ppm (mg/Liter).

### Operating Tips

- Protect photometer from extreme humidity, corrosive fumes and dusty areas. Store in a cool, dry place.
- Remove the batteries when photometer is not in use.
- Photometer must be turned off and back on again for re-zeroing. However, re-zeroing is not necessary when reading a series of samples.
- Press the ! key to turn the display back light on or off.
- When moving the photometer from one temperature extreme to another, wait at least 10 minutes before use to allow photometer to come to temperature equilibrium.
- Contamination of the optics in the sample chamber will result in incorrect measurements. The windows in the sample chamber should be checked at regular intervals and cleaned as necessary. Use a soft moist cloth or cotton swab for cleaning purposes.
- If the sample cell adapter has been removed, it must be replaced with proper orientation, aligning the triangle on the adapter with the triangle on the photometer.

### Displays and Troubleshooting

**E01:** Light absorption too great (dirty optics)

**E20/E21:** Too much light reaching detector

**E22 or Battery Icon:** Battery should be replaced

**Hi:** Measuring range exceeded or excessive turbidity

**Lo:** Test result has a negative value (less than 0 ppm)

### Specifications

**Auto Shut Off:** After 15 minutes of non-use

**Optics:** 530 nm LED/interference filter and photosensor in transparent sample chamber

**Operating Temp.:** 5 to 40°C (41 to 104°F)

**Battery:** 4 AAA batteries (approx. 5,000 tests or 17 hours)

**Waterproof:** Floating, IP68 (1 hour at 0.1 meter)

**Wavelength Accuracy:**  $\pm 1$  nm

**Photometric Accuracy\*:** 3% FS (T = 20° C - 25° C) / (T = 68° F - 77° F)

**Photometric Resolution:** 0.01 A

**Ambient Conditions:** Temperature 5 - 40° C / 41 - 104° F

Rel. humidity 30 - 90 % (non-condensing)

**CE:** Certificate of Declaration of CE-Conformity available upon request.

\* Measured with Standard Solutions

### Menu Selection

1. Hold the Mode key down and press the On/Off key. Allow the 3 decimal points to appear in the display before releasing the Mode key.
2. Use the ! key to toggle through 2 menu options:  
Store = recall stored data  
Date & Time = setting the date and time.
3. Press the Mode key to select the menu option that is indicated by the arrow.  
**Note:** If the instrument is already on, press and hold the ! key for more than 4 seconds to access the recall menu.

### Recall of Stored Data

The colorimeter shows the last 16 data sets in the following format:

Sample Number: nXX (XX: 16, 15, 14, ....1)

Year: XXXX (i.e. 2009)

Date: mm.dd (i.e. 07.31)

Time: hh:mm (i.e. 12:05)

Result: XX or XXX

The Zero/Test key repeats the current data set.

The Mode key scrolls through all stored data.

Quit the menu by pressing the ! Key.

### Setting Date and Time

The setting starts with the year (XXXX), then month (XX), then day (XX), then hour (XX), then minutes (XX).

Increase value by pressing the Mode key.

Decrease value by pressing the Zero/Test key.

Proceed to the next setting by pressing the ! key.

After setting the minutes and pressing the ! key, the display will show "IS SET" and return to measurement mode.

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