

PRODUCT INSTRUCTIONS

Ozone SAM Kit **(Single-Analyte Photometer)**

ASR426: 0 - 0.75 ppm (mg/Liter)

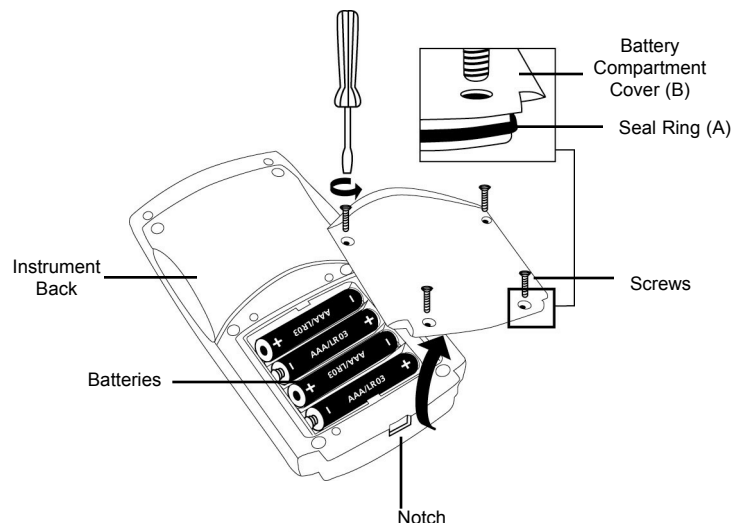
Visit www.pacificozone.com to view product demonstration videos.

Manufactured by:  **CHEMetrics**
Water Analysis Systems



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Battery Replacement



To ensure that the instrument is waterproof:

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

To Set Zero

1. Press the ON/OFF key.
2. The display will show “03”.
3. Insert the ZERO ampoule (supplied in Vacu-vials®¹ 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 “SEt”.

To Generate Reagent Blank Value

1. Insert an **unsnapped ozone Vacu-vial ampoule**, flat end first, into the sample cell compartment (with mild downward pressure), making sure that it is fully seated.
 2. Place the light shield over the ampoule.
 3. Press the Zero/Test key. The “03” symbol will flash for approximately 8 seconds, then the display will show “tEst”.
- Note:** The instrument has stored a reagent blank value for this ampoule.

To Obtain Test Result

1. Follow the Test Procedure in the Ozone Vacu-vials test kit (Part # ASR428) using the ampoule from which the reagent blank value was generated above.
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 result will appear in the display as ppm (mg/Liter).
5. To perform the next test, remove the test ampoule from the sample cell compartment. Press the Zero/Test key. The display will show “SEt”. Return to **To Generate Reagent Blank Value**.

Operating Tips

- Upon startup, the photometer automatically proceeds to the zeroing process. Every time the photometer powers on, it must be re-zeroed.
- To re-zero the photometer, it must be turned off and back on again.
- A series of readings can be taken without re-zeroing, as long as the photometer stays on during the series.
- 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.
- 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

E27/E28/E29: Instrument zeroed incorrectly, misaligned adapter, vial not properly seated, dirty optics or failing light source.

Hi/E03: Measuring range exceeded or excessive turbidity

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

Specifications

Auto Shutoff: After 15 minutes of non-use

Optics: 610 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: ± 1 nm

Photometric Accuracy*: 3% full scale (T = 20 - 25° C / 68 - 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

1. Vacu-vials is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038

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 (e.g. 2009)

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

Time: hh:mm (e.g. 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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