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› HANNA HI98319 Salinity Tester for Marine Aquariums User Manual

## HANNA HI98319

# HANNA HI98319 Salinity Tester User Manual

For Marine Aquariums

## 1. INTRODUCTION

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The HANNA HI98319 Salinity Tester is a compact, waterproof instrument specifically engineered for precise salinity measurements in marine aquariums. This device offers accurate readings in parts per thousand (ppt), practical salinity units (PSU), and specific gravity (SG), making it an essential tool for maintaining optimal water conditions for marine life. Its user-friendly design, featuring a two-button operation and an integrated temperature sensor for automatic compensation, ensures reliable and convenient use.

## 2. PRODUCT OVERVIEW

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Figure 2.1: Front view of the HANNA HI98319 Salinity Tester, showing the display and control buttons.

The HI98319 is designed for ease of use and accuracy. Key features include:

- **Dedicated Marine Aquarium Use:** Specifically calibrated for the unique salinity ranges found in marine environments.
- **Multiple Measurement Units:** Displays readings in parts per thousand (ppt), practical salinity units (PSU), or specific gravity (SG).
- **Integrated Graphite Conductivity Probe:** Ensures stable and accurate measurements of salt content up to 70.00 ppt.
- **Automatic Temperature Compensation (ATC):** An integrated temperature sensor automatically adjusts readings for temperature variations, enhancing accuracy.

- **Waterproof Design:** Built to withstand splashes and accidental immersion, ensuring durability in aquatic settings.
- **Simple Two-Button Operation:** Features a power on/off button and a dedicated calibration button for straightforward use.

### 3. SETUP

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Before first use, ensure the device is ready for operation.

#### 3.1 Battery Installation



Figure 3.1: View of the battery compartment on the back of the HI98319.

1. Locate the battery cap on the back of the tester.
2. Twist the battery cap counter-clockwise to remove it.
3. Insert the required batteries (e.g., CR2032 coin cell, refer to product packaging for exact type) with the positive (+) side facing up.
4. Replace the battery cap by twisting it clockwise until securely fastened.

#### 3.2 Initial Calibration

It is recommended to perform an initial calibration before first use to ensure accuracy. Refer to Section 4.2 for detailed calibration instructions.

### 4. OPERATING INSTRUCTIONS

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#### 4.1 Taking a Measurement



Figure 4.1: Close-up view of the integrated graphite conductivity probe.

1. Press the **ON/OFF** button to turn on the tester.
2. Dip the probe into the marine aquarium water, ensuring the sensor is fully submerged.
3. Gently stir the tester to remove any air bubbles from the probe area.
4. Wait for the reading on the display to stabilize. The integrated temperature sensor will automatically compensate for temperature variations.
5. Read the salinity value displayed in your preferred unit (ppt, PSU, or SG).
6. After measurement, rinse the probe with distilled or deionized water.
7. Press the **ON/OFF** button again to turn off the tester.

## 4.2 Calibration

Regular calibration ensures the accuracy of your salinity readings. Use a fresh calibration solution for best results.

1. Turn on the tester by pressing the **ON/OFF** button.
2. Pour a small amount of the appropriate calibration solution (e.g., 35.00 ppt or 35.0 PSU standard) into a clean beaker or container.
3. Dip the probe into the calibration solution, ensuring the sensor is fully submerged.
4. Press and hold the **CAL** button until "CAL" appears on the display.
5. The tester will automatically recognize the calibration solution and begin the calibration process.
6. Once calibration is complete, the display will show "OK" and return to measurement mode.
7. Rinse the probe thoroughly with distilled or deionized water before taking measurements.

## 5. MAINTENANCE

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### 5.1 Cleaning the Probe

After each use, rinse the probe with distilled or deionized water to prevent salt crystal buildup and ensure accurate future readings. If significant buildup occurs, gently clean the probe with a soft brush or cotton swab, then rinse thoroughly.

## 5.2 Storage

Store the tester in a cool, dry place. Always ensure the probe is clean and dry before storage. For prolonged storage, it is advisable to remove the batteries to prevent leakage.

## 6. TROUBLESHOOTING

If you encounter issues with your HI98319 Salinity Tester, refer to the following common problems and solutions:

- **Inaccurate Readings:**
  - *Cause:* Probe is dirty or has salt buildup.
  - *Solution:* Clean the probe thoroughly as described in Section 5.1.
  - *Cause:* Incorrect or outdated calibration.
  - *Solution:* Recalibrate the tester using a fresh calibration solution (refer to Section 4.2).
  - *Cause:* Air bubbles on the probe during measurement.
  - *Solution:* Gently stir the tester in the water to dislodge air bubbles.
- **Tester Does Not Turn On:**
  - *Cause:* Batteries are low or depleted.
  - *Solution:* Replace the batteries (refer to Section 3.1).
  - *Cause:* Batteries are inserted incorrectly.
  - *Solution:* Check battery orientation and reinsert correctly.
- **"Err" Message on Display:**
  - *Cause:* Calibration error or probe issue.
  - *Solution:* Ensure the correct calibration solution is used and the probe is clean. Attempt recalibration. If the error persists, contact customer support.

## 7. SPECIFICATIONS

| Specification                  | Value                          |
|--------------------------------|--------------------------------|
| Brand                          | HANNA                          |
| Item Model Number              | HI98319                        |
| Manufacturer                   | Hanna Instruments              |
| Product Dimensions (L x W x H) | 4.3 x 7.9 x 17.5 cm; 280 grams |
| Units per Item                 | 1                              |
| Number of Items                | 1                              |
| Batteries Required             | No                             |
| Batteries Included             | No                             |
| Energy Label                   | A                              |
| ASIN                           | B07L7YPN3K                     |

| Specification                | Value                                              |
|------------------------------|----------------------------------------------------|
| Average Customer Review      | 4.4 out of 5 stars (86 ratings)                    |
| Amazon Best Sellers Rank     | #74825 in Pet Supplies, #316 in Aquarium Test Kits |
| Date First Available         | 14 April 2022                                      |
| Discontinued by Manufacturer | No                                                 |
| Target Species               | Fish                                               |

## 8. WARRANTY AND SUPPORT

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The HANNA HI98319 Salinity Tester is covered by a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and duration, please refer to the warranty card included with your product or visit the official HANNA Instruments website.

For technical support, troubleshooting assistance, or to inquire about replacement parts and accessories, please contact HANNA Instruments customer service. Contact information can typically be found on the product packaging or their official website. When contacting support, please have your product model number (HI98319) and purchase date ready.