

Hanna Instruments HI-711

Hanna Instruments HI 711 Checker HC Handheld Colorimeter User Manual

For Total Chlorine Measurement

1. INTRODUCTION

The Hanna Instruments HI 711 Checker HC is a handheld colorimeter designed for accurate and precise measurement of total chlorine levels. This device offers a simpler and more cost-effective alternative to chemical test kits while providing greater accuracy. It utilizes the EPA-approved DPD method 4500-Cl G, making it suitable for applications requiring this standard. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your HI 711 Checker HC.

2. SAFETY INFORMATION

Please read all instructions carefully before using the HI 711 Checker HC. Failure to do so may result in inaccurate readings or damage to the device. Always handle reagents with care and follow all safety precautions provided with the reagent kits. Keep the device and reagents out of reach of children.

3. PRODUCT OVERVIEW

The HI 711 Checker HC is a compact, single-button operation device featuring a large LCD screen for easy readability. It is designed for portability and ease of use in various environments.



Image 1: The Hanna Instruments HI 711 Checker HC Handheld Colorimeter shown with a sample vial. The device displays a reading of 0.87 ppm for Total Chlorine.

Key components include:

- **LCD Display:** Shows measurement readings and operational prompts.
- **Operation Button:** Used for powering on/off and initiating measurements.
- **Cuvette Holder:** Compartment for inserting sample vials.
- **Battery Compartment:** Located at the rear for AAA battery installation.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment on the back of the device.
2. Remove the battery cover.
3. Insert one (1) AAA battery, ensuring correct polarity (+/-).
4. Replace the battery cover securely.

4.2 Initial Preparation

Before first use, ensure the cuvettes are clean and free from scratches or debris. Use distilled or deionized water for rinsing.

5. OPERATING INSTRUCTIONS

The HI 711 Checker HC operates using a simple, single-button interface. Follow these steps for accurate total chlorine measurements:

1. **Power On:** Press the button to turn the Checker HC on. The display will show "---" then "Add C1".
2. **Zero the Device:**
 - Fill a clean cuvette with 10 mL of unreacted sample water (the water you wish to test, before adding reagent).
 - Cap the cuvette and wipe it thoroughly with a lint-free cloth to remove any fingerprints or smudges.
 - Insert the cuvette into the Checker HC, ensuring the cap is fully seated.
 - Press the button. The display will show "Add C2" when zeroing is complete.
3. **Add Reagent:**
 - Remove the cuvette from the Checker HC.
 - Add one packet of HI 711-0 Total Chlorine reagent to the sample in the cuvette.
 - Cap the cuvette and shake gently for approximately 20 seconds to dissolve the reagent.
 - Wipe the cuvette thoroughly with a lint-free cloth.
4. **Measure:**
 - Insert the cuvette back into the Checker HC.
 - Press the button. The display will show a countdown timer (e.g., "2:00"). This is the reaction time required for the DPD method.
 - After the countdown, the Checker HC will display the total chlorine concentration in ppm (parts per million).
5. **Power Off:** The device features an auto shut-off function to conserve battery life. It will automatically turn off after 10 minutes of inactivity. To manually turn off, press and hold the button until "OFF" is displayed.



Image 2: The Hanna Instruments HI 711 Checker HC showing a measurement of 0.82 ppm for Total Chlorine on its LCD screen.

6. MAINTENANCE

6.1 Cleaning

- Always keep the cuvettes clean. Rinse them thoroughly with distilled or deionized water after each use.
- Wipe the exterior of the Checker HC with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the cuvette holder is clean and dry before storage.

6.2 Storage

- Store the Checker HC in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, remove the AAA battery to prevent leakage.
- Store reagents in their original packaging in a cool, dark place.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your HI 711 Checker HC.

Problem	Possible Cause	Solution
Inaccurate or inconsistent readings	Dirty cuvette, expired reagent, improper zeroing, air bubbles in sample	Clean cuvette thoroughly, use fresh reagent, ensure proper zeroing with unreacted sample, remove air bubbles by gently tapping the cuvette.
Device does not power on	Dead battery, incorrect battery installation	Replace AAA battery, check battery polarity.
"Err" message on display	Measurement outside range, light interference	Ensure sample is within the device's measurement range. Perform measurement in a stable light environment. Re-zero the device.

8. SPECIFICATIONS

The following are the technical specifications for the Hanna Instruments HI 711 Checker HC:

- **Model:** HI-711
- **Parameter:** Total Chlorine
- **Method:** Adaptation of the EPA DPD method 4500-Cl G
- **Power Source:** 1 x AAA Battery
- **Product Dimensions:** 5 x 3 x 4 inches
- **Weight:** 8.82 ounces
- **Auto Shut-off:** After 10 minutes of inactivity

9. WARRANTY INFORMATION

Hanna Instruments products are warranted against defects in workmanship and materials when used for their intended purpose and maintained according to instructions. The specific warranty period may vary by






region and product. Please refer to the warranty card included with your product or visit the official Hanna Instruments website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or information regarding reagents and accessories, please contact Hanna Instruments customer support. You can find contact details on the official Hanna Instruments website or through your local distributor. When contacting support, please have your product model number (HI-711) and purchase date available.

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Related Documents - HI-711

	<p>Hanna HI727 Portable Checker Instruction Manual: Measuring Water Color</p> <p>Comprehensive instruction manual for the Hanna HI727 Portable Checker. Learn how to accurately measure water color, manage battery life, perform measurements, and troubleshoot errors. Includes specifications and warranty information.</p>
	<p>Hanna HI 701 Free Chlorine Meter: Instruction Manual and Specifications</p> <p>Detailed instruction manual and technical specifications for the Hanna HI 701 Free Chlorine meter, covering operation, troubleshooting, and accessories for accurate water quality testing.</p>
	<p>Hanna HI727 Checker HC Color of Water Instruction Manual</p> <p>Detailed instruction manual for the Hanna HI727 Checker HC handheld colorimeter, covering accurate measurement tips, battery replacement, specifications, measurement procedures, and error handling for determining water color.</p>
	<p>Hanna HI 93701 Free Chlorine ISM Instruction Manual</p> <p>Instruction manual for the Hanna Instruments HI 93701 portable microprocessor meter, detailing its use for measuring free chlorine in water and wastewater, including specifications, procedures, and troubleshooting.</p>
	<p>Hanna HI97790 Chlorine Photometer Quick Reference Guide</p> <p>Quick reference guide for the Hanna Instruments HI97790 Chlorine Photometer, detailing package contents, operational overview, main features, safety precautions, and reagents. Learn how to measure Free and Total Chlorine.</p>



[Hanna HI735 Checker@HC: Total Hardness Low Range Handheld Colorimeter Specifications & Features](#)

Discover the Hanna HI735 Checker@HC, a handheld colorimeter for measuring low range total hardness (as CaCO_3) in water. Features include ease of use, accuracy, and portability. Ideal for drinking water, pools, and industrial applications.