Tips for an Accurate Measurement

- It is important that the sample does not contain any debris.
- Whenever the cuvette is placed into the measurement cell, it must be dry outside, and completely free of fingerprints, oil and dirt. Wipe it thoroughly with H1731318 or a lint-free cloth prior to insertion.
- Shaking the cuvette can generate bubbles, causing higher readings. To obtain accurate measurements, remove such bubbles by swirling or by gently tapping the cuvette.
- Do not let the reacted sample stand for too long after reagent is added, as accuracy will be affected.
- After the reading it is important to immediately discard the sample, otherwise the glass might become permanently stained.

Battery Management

To save the battery, the instrument shuts down after 10 minutes of non-use. One fresh battery lasts for a minimum of 5000 measurements. When the battery is dead the instrument will display "**bAd**" then "**bA**" for 1 second and then turns off. To restart the instrument, the battery must be replaced with a new one. To replace the instrument's battery:

- Turn the instrument off by holding the button until the meter shuts off.
- Turn the instrument upside down and remove the battery cover with a screwdriver.



- Remove the battery from its location and replace it with a new one, inserting the negative end first.
- Insert the battery cover and replace the screw with a screwdriver.



Before using Hanna Instruments products, make sure that they are entirely suitable for your specific application and for the environment in which they are used. Operation of these instruments may cause unacceptable interferences to other electronic equipment, thus requiring the operator to take all necessary steps to correct such interferences. Any variation introduced by the user to the supplied equipment may degrade the instrument's *EMC* performance. To avoid damages or burns, do not put the instrument in microwave oven. For yours and the instrument safety do not use or store the instrument in hazardous environments.

Accessories

Reagent Sets

HI753-25	Reagents for 25 Chloride tests
Other Accessories	
HI753-11	Chloride Certified Standard Kit
HI731318	Cloth for wiping cuvettes (4 pcs.)
HI731321	Glass cuvettes and Seal Cap for Checker® HC Colorimeters (4 pcs.)
HI731225	Cuvette Black Cap for Checker® HC Colorimeters (4 pcs.)
HI740028P	1.5V AAA batteries (12 pcs.)
HI740142P	1 mL graduated syringe (10 pcs.)
HI740144P	Pipette tip for syringes (10 pcs.)
HI93703-50	Cuvette cleaning solution (230 mL)

Warranty

HI753 is warranted for a period of one year after date of purchase against defects in workmanship and materials when used for their intended purpose and maintained according to instructions. This warranty is limited to repair or replacement free of charge. Damage due to accidents, misuse, trampering or lack of prescribed maintenance is not covered. If service is required, contact your local Hanna Instruments Office. If under warranty, report the model number, date of purchase, serial number and the nature of the problem. If the repair is not covered by the warranty, you will be notified of the charges incurred. If the instrument is to be returned to Hanna Instruments, first obtain a Return Goods Authorization number from the Technical Service department and then send it with shipping costs prepaid. When shipping any instrument, make sure it is properly packed for complete protection.

INSTRUCTION MANUAL

HI753 Chloride





Thank You

Thank you for choosing a Hanna Instruments product. Please read this instruction manual carefully before usina the instrument.

For more information about Hanna Instruments and our products, visit www.hannainst.com

For technical support, contact your local Hanna Instruments Office or e-mail us at tech@hannainst.com.

Find your local Hanna Instruments Office on www.hannainst.com.

Preliminary Examination

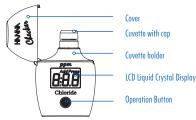
Please examine this product carefully. Make sure that the instrument is not damaged. If any damage occurred during shipment, please contact your local Hanna Instruments Office. Each HI753 meter is supplied complete with:

- Sample Cuvettes and Caps (2 pcs.)
- Reagent set for 25 tests
- 1 mL Syringe with Tips (2 pcs.)
- 1.5V AAA Battery (1 pc.)

Instruction Manual and Quick Reference Guide Specifications

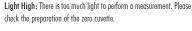
Range	0.0 to 20.0 ppm
Resolution	0.1 ppm
Accuracy	± 0.5 ppm $\pm 6\%$ of reading @25 °C/77 °F
Light Source	Light Emitting Diode @470 nm
Light Detector	Silicon Photocell
Method	Adaptation of the mercury(II) thiocyanate method. The chloride ion displace thiocyanate ion from mercury(II). The iron(III) present forms with thiocyanate an orange colored complex. The intensity of color is proportional to the chloride ion concentration.
Environment	0 to 50 $^\circ\text{C}$ (32 to 122 $^\circ\text{F}$); max 95% RH non-condesing
Battery Type	1.5V AAA (1 pc.)
Auto-Shut off	After 10 minutes of non-use
Dimensions	86.0 x 61.0 x 37.5 mm (3.4 x 2.4 x 1.5")
Weight	52 g (1.84 oz.)

Functional Description



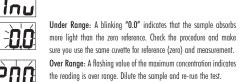
Errors and Warnings





Light Low: There is not enough light to perform a measurement. Please check the preparation of the zero cuvette.

Inverted Cuvettes: The sample and the zero cuvette are inverted.



Battery Low: The battery must be replaced soon.

Dead Battery: This indicates that the battery is dead and must be ЪЯd replaced. Once this indication is displayed, normal operation of the instrument will be interrupted. Change the battery and restart the meter.

Measurement Procedure

- Turn the meter on by pressing the button. All segments will be displayed. When the display shows "Add", "C.1" with "Press" blinking, the meter is ready.
- Fill cuvette one with 10 mL of distilled water. This will be your zero.
- Fill cuvette two with 10 mL of unreacted sample. Note: For samples with low chloride concentration, it is recomended to rinse the cuvette several times with unreacted sample before filling it with 10 mL. Note: For improved accuracy use a volumetric pipette to deliver exactly 10 mL of distilled water and sample to the cuvettes.
- Using the 1 mL syringe, add 0.5 mL of HI753A-0 Displacing Reagent to each cuvette.
- Replace the cap and invert the cuvette for approximately 30 seconds.
- Unscrew the cap and use the second 1 mL syringe add 0.5 mL of HI753B-0 Complexing Reagent to each cuvette.
- Replace the cap and invert the cuvette for approximately 30 seconds.
- Place the first cuvette (disttiled water) into the meter and close the meter's cap
- Press and hold the button until the timer is displayed on the LCD. Alternatively wait for two minutes and then press the button. When the display shows "Add", "C.2" with "Press" blinking the meter is zeroed.
- Remove the cuvette
- Insert the other cuvette with the reacted sample into the instrument and close the meter's cap.
- Press the button. The instrument directly displays the concentration of chlorine in ppm (mg/L). The meter automatically turns off after 10 minutes.



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Hanna Instruments reserves the right to modify the design, construction or appearance of its products without advance notice.



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