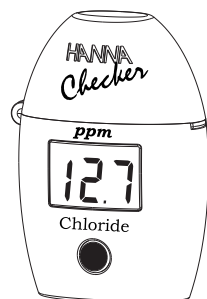


HI 753 Chloride



Dear Customer,
Thank you for choosing a Hanna Instruments Product.
Please read this instruction manual carefully before using the instrument. If you need additional technical information, do not hesitate to e-mail us at tech@hannainst.com or view our worldwide contact list at 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 notify your Dealer.
Each HI 753 meter is supplied complete with:

- Two Sample Cuvettes and Caps
- Reagent set for 25 tests
- 2 x 1 mL Syringes with Tips
- 1 x 1.5V AAA Battery
- Instruction Manual and Quick Reference

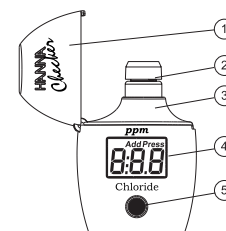


For more details about spare parts and accessories see "Accessories".

Technical specifications:

| | |
|----------------|---|
| Range | 0.0 to 20.0 ppm |
| Resolution | 0.1 ppm |
| Accuracy | ± 0.5 ppm ± 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 °C (32 to 122 °F); max 95% RH non-condensing |
| Battery Type | 1 x 1.5V AAA |
| 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 | 64 g (2.3 oz.) |

Functional description:



1. Dust cover.
2. Cuvette with cap.
3. Cuvette holder.
4. Liquid Crystal Display.
5. Button.

Errors and warnings:



Light High: There is too much light to perform a measurement. Please check the preparation of the zero cuvette.



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.



Under Range: A blinking "0.0" indicates that the sample absorbs more light than the zero reference. Check the procedure and make sure you use the same cuvette for reference (zero) and measurement.



Over Range: A flashing value of the maximum concentration indicates the reading is over range. Dilute the sample and re-run the test.



Battery Low: The battery must be replaced soon.



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



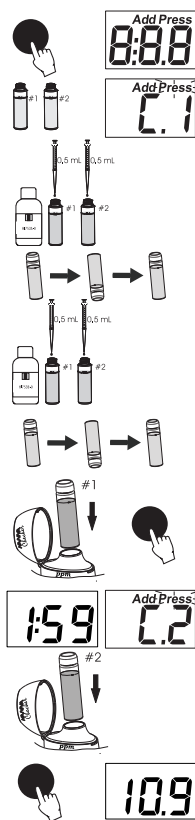
Measurement procedure:

- 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 recommended 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 HI 753A-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 HI 753B-0 Complexing Reagent to each cuvette.
- Replace the cap and invert the cuvette for approximately 30 seconds.
- Place the first cuvette (distilled 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.



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 HI 731318 or a lint-free cloth prior to insertion.
- Shaking the cuvette can generate bubbles, causing higher readings. To obtain accurate measurements, remove 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

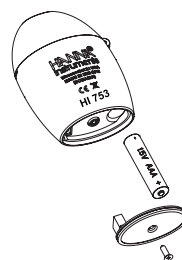
To save the battery, the instrument shuts down after 10 minutes of non-use.

One fresh battery lasts for a minimum of 5000 measurements. When the battery is dead the instrument will display "bAd" then "bAt" 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.

Accessories:

REAGENT SETS

HI 753-25 Reagents for 25 Chloride tests

OTHER ACCESSORIES

HI 753-11 Chloride Certified Standard Kit
HI 731318 Cloth for wiping cuvettes (4 pcs.)
HI 731321 Glass cuvettes (4 pcs.)
HI 731225 Black Cuvette Cap for Checker HC (4 pcs.)
HI 740028 1.5V AAA batteries (4 pcs.)
HI 740142P 1 mL graduated syringe (10 pcs.)
HI 740144P Pipette tip for syringes (10 pcs.)
HI 93703-50 Cuvette cleaning solution (230 mL)

Recommendations for Users

Before using this product, make sure that it is entirely suitable for your specific application and for the environment in which it is used.

Operation of this instrument may cause unacceptable interferences to other electronic equipment, thus requiring the operator to take all necessary steps to correct interferences.

Any variation introduced by the user to the supplied equipment may degrade the instrument's EMC performance.

To avoid damage or burns, do not put the instrument in microwave oven. For the safety of you and the instrument do not use or store the instrument in hazardous environments.

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

**For additional information, contact your
dealer or the nearest
Hanna Customer Service Center.
To find a Hanna Office in your area,
visit our web site:**

www.hannainst.com

