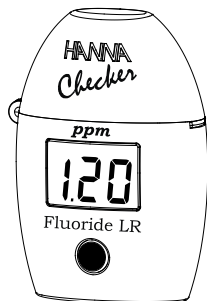


HI729

Fluoride Low Range



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 contact your local Hanna Instruments Office. Each HI729 meter is supplied complete with:

- Two Sample Cuvettes and Caps
- Reagent for 6 tests
- 1 mL syringe with tip
- 1 x 1.5V AAA Battery
- Instruction Manual and Quick Reference Guide

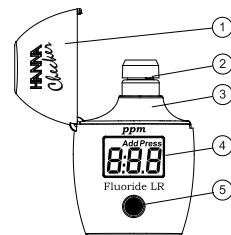


For more details about spare parts and accessories see "Accessories".

Technical specifications

Range	0.00 to 2.00 ppm
Resolution	0.01 ppm
Accuracy	±0.10 ppm ±5% of reading @25 °C/77 °F
Light Source	Light Emitting Diode @575 nm
Light Detector	Silicon Photocell
Method	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18 th edition, SPADNS method.
Environment	0 to 50 °C (32 to 122 °F); max 95% RH non-condensing
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	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:

L.H.

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

L.Lo

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

Inu

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

0.00

Under Range: A blinking "0.00" indicates that the sample absorbs more light than the zero reference. Check the procedure and make sure that the sample and zero cuvette are not inverted.

2.00

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

bAt

Battery Low: The battery must be replaced soon.

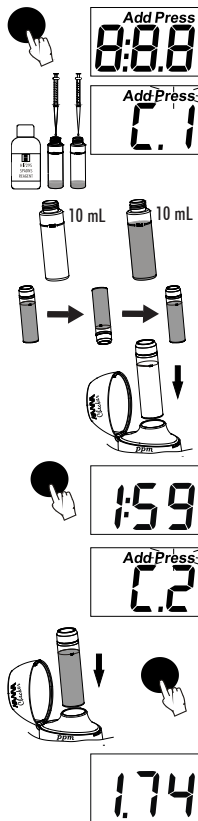
bAd

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.

bAt

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.
- Using supplied syringe add 2 mL of HI729S SPADNS reagent to both cuvettes.
- Fill the first cuvette to the line with 8 mL of deionized water and the second cuvette to the line with 8 mL of sample. Replace the cap and invert several times to mix.
- Place the first cuvette (deionized water) into the meter and close the cap.
- Press and hold the button until the timer is displayed on the LCD (the display will show the countdown prior to the measurement) or, alternatively, wait for 2 minutes and press the button.
- When the display shows "Add", "C.2" with "Press" blinking the meter is zeroed.
- Remove the cuvette.
- Insert the second cuvette (sample) into the instrument and press the button.
- The instrument directly displays the concentration of fluoride in ppm. The meter automatically turns off after 2 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 HI731318 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

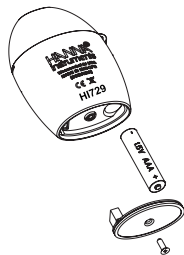
To save the battery, the instrument shuts down after 2 minutes of non-use.

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

HI729-26

Reagent set for 20 Fluoride Low Range tests (4 x HI729S and a 1 mL syringe with tip)

OTHER ACCESSORIES

HI729-11

Fluoride LR Certified Standard Kit

HI731318

Cloth for wiping cuvettes (4 pcs.)

HI731315

Glass Cuvettes and Caps for Checker® HC Colorimeters (2 pcs.)

HI731353

Cuvette seal cap for Checker® HC Colorimeters (4 pcs.)

HI70436

Deionized water (1 gal)

HI740028P

1.5V AAA batteries (12 pcs.)

HI740142P

1 mL graduated syringe (10 pcs.)

HI93703-50

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 local Hanna Instruments Office.
To find a Hanna Instruments Office in your area,
visit our web site:**

www.hannainst.com

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