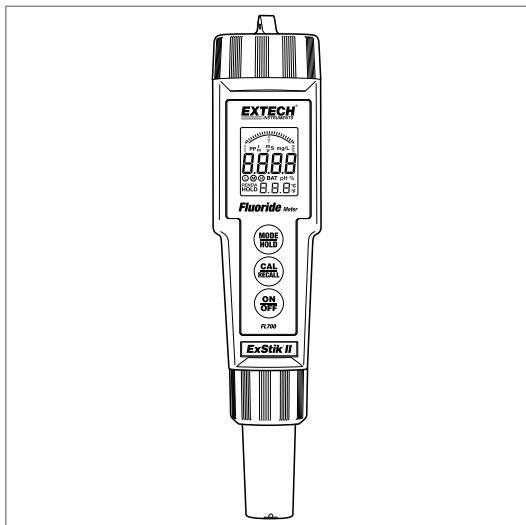


EXTECH

Quick Start

Fluoride Meter

FL700 ExStik® Meter



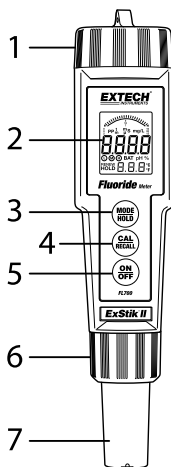
Quick Start (en)

Introduction

The FL700 provides quick and accurate measurements of fluoride ions in drinking water and other aqueous samples.

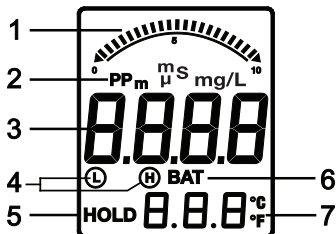
Meter Description

1. Battery compartment cover
2. LCD Display
3. MODE/HOLD button
4. CAL/RECALL button
5. Power button
6. Electrode Retaining Collar (ring)
7. Electrode Sensor



Display Description

1. Bar graph
2. Measurement units
3. Primary display
4. Low (L) & High (H) Calibration icons
5. Data HOLD indicator
6. Low Battery indicator
7. Temperature measurement



Reagent Tablets

The FL700 follows the ASTM and EPA standard methodology allowing the use of any of the existing TISAB reagents and standards.

Also, Extech has developed a tablet-form TISAB which contains all of the essential and approved chemicals that are found in the usual TISAB reagents. A total ionic strength adjustment buffer (TISAB) is a buffer solution which increases the ionic strength of a solution to a relatively high level.

Basic Operation

Preparation

1. Remove the FL700, electrode module, and sample cup from the box. Remove the caps from the module.
2. If not already assembled, fit the electrode module onto the end of the meter body, ensuring that the slots align correctly, and then turn the module retaining ring to secure the assembly.

Power the Meter

Press the ON/OFF button to switch the meter ON or OFF. If the batteries are weak, the 'BAT' indicator appears. The meter requires four (4) CR2032 batteries for power, the battery compartment is located under the cap at the top of the meter (refer to the User Manual for complete replacement instructions). The meter switches OFF automatically (APO) after 10 minutes of inactivity.

Calibration

To calibrate the meter, refer to the User Manual, available as a download from the FL700 product page on the Extech website.

<https://www.flir.com/landing/extech/>

Select the Unit of Measure

1. Power the meter.
2. Press and Hold the MODE/HOLD button to cycle through the units (ppm, mV, mg/L).
3. Release the button when the desired unit is shown.

Saving Readings

1. Short press the MODE/HOLD button to enter the HOLD mode, then press the MODE/HOLD button for 3 seconds to store a reading. Release the button when the memory location number (1 to 25) appears.
2. After 30 seconds, the meter will return to the HOLD mode and another reading can then be stored.
3. If more than 25 readings are stored, previously stored readings are overwritten.

Recalling Readings

1. Short press CAL/RECALL and then, within 4 seconds, short press MODE/HOLD. The last stored reading number will be displayed. Each time the MODE/HOLD button is pressed the next stored reading will display.
2. After the last reading is displayed, press MODE/HOLD again to return to the beginning of the list.
3. Press the CAL/RECALL button at any time to return to the normal measurement mode.

Clearing Stored Readings

1. With the unit ON, press the ON/OFF button for 4 seconds.
2. The memory is erased when "clr" appears on the display.

Measurement Mode

1. Prepare a 20 ml test solution by adding one TISAB reagent to the sample. Wipe the end of the FL700, and wait for the tablet to dissolve, then mix thoroughly.
2. Rinse the end of the FL700 in the rinse solution or in distilled water, and wipe dry.
3. Place the FL700 into the prepared sample. If the instrument is in the HOLD mode, press MODE/HOLD to unlock HOLD.
4. After 30 seconds (approximately), the value of the sample will display and the meter will enter the HOLD mode.

Electrode Storage

Store the electrode wet (preferred) in the test solution (fluoride ion plus TISAB reagent). The electrode can be stored dry but allow 15 minutes of soaking time in a fluoride solution. An error code will appear if the electrode can no longer be calibrated.

Basic Specifications

Measurement Range	0.10 to 9.99 ppm (mg/l)
Accuracy	± 3% of reading or ± 0.1 ppm (whichever is greater)
Resolution	0.1 ppm
Operating Temperature	0 to 60°C (32 to 140°F)
Battery power	Four (4) CR2032 batteries

Customer Support

Customer Support Local Telephone List:

<https://support.flir.com/contact>

Return Material Authorization (RMA):

<https://customer.flir.com/Home>

Warranty

Teledyne FLIR warrants this Extech brand instrument to be free of defects in parts and workmanship for two years from date of shipment. To view the full warranty text, please visit:

<https://www.flir.com/support-center/warranty/instruments/extech-product-warranty/>

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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