

## HI 739 Fluoride High Range

### Quick Reference Guide

#### TECHNICAL SPECIFICATIONS

- **Range:** 0.0 to 20.0 ppm
- **Resolution:** 0.1 ppm
- **Accuracy:**  $\pm 0.5$  ppm  $\pm 5$  % of reading @ 25 °C / 77 °F
- **Typical EMC Dev.:**  $\pm 0.1$  ppm
- **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<sup>th</sup> edition*, SPADNS method.
- **Environmental:** 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:** 81.5 x 61 x 37.5 mm (3.2 x 2.4 x 1.5 ")
- **Weight:** 64 g (2.25 oz.)

#### 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.



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#### TAKING MEASUREMENTS

- 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 (1 mL twice) of **HI 739AS** reagent to the cuvette and use the pipette to fill the cuvette up to the mark with **HI 739BS** reagent.
- Replace the cap and invert several times to mix.
- Place the cuvette 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 one minute and then press the button. When the display shows "Add", "C.2" with "Press" blinking the meter is zeroed.
- Remove the cuvette from the meter and unscrew the cap. Using the unused syringe, add exactly 1.00 mL of sample.
- Replace the cap and invert several times to mix.
- Place the cuvette back into the meter.
- Press and hold the button until the timer is displayed on the LCD. Alternatively wait for one minute and then press the button.
- The instrument directly displays the concentration of fluoride in ppm.

The meter automatically turns off after 10 minutes.

**Note:** For error messages and battery replacement see the instruction manual.

