Fluoride Portable Photometers

- **CAL CHECK™**
- **User calibration**
- **Certified calibration and verification standards**
- **BEPS** (Battery Error Prevention System)
- **TIMER function**
- **Auto shut-off**
- **GLP Features**

The HI 96729 meter measures the fluoride (F^-) content in the 0.00 to 2.00 mg/L (ppm) range, in drinking, surface and waste waters. The amount of reagent is precisely dosed by use of the supplied automatic pipette for maximum repeatability.

The HI 96739 meter measures the fluoride (F^-) content in water, wastewater and seawater in the 0 to 20 mg/L (ppm) range.

Both meters use an exclusive positive-locking system to ensure that the cuvette is in the same position every time it is placed into the measurement cell. It is designed to fit cuvettes with a larger neck making it easier to add both sample and reagents. The cuvettes are made from special optical glass to obtain best results.

Fluoride is best known for preventing tooth decay. Water authorities often add fluoride to drinking water to maintain approximately a 1.0 mg/L (ppm) concentration. Fluoride can be found naturally in ground water, particularly if a reservoir is in the proximity of draws of sea water. While fluoride does help prevent tooth decay, too little can be ineffective and too much can cause staining.

SPECIFICATIONS	HI 96729 Fluoride LR	HI 96739 Fluoride HR
Range	0.00 to 2.00 mg/L (ppm)	0.0 to 20.0 mg/L (ppm)
Resolution	0.01 mg/L (ppm)	0.1 mg/L (ppm)
Accuracy @ 25°C (77°F)	±0.03 mg/L ±3% of reading	±0.5 mg/L ±3% of reading
Light Source	tungsten lamp	
Light Detector	silicon photocell with narrow band interference filter @ 575 nm	
Power Supply	9V battery	
Auto-off	after ten minutes of non-use in measurement mode; after one hour of non-use in calibration mode; with last reading reminder	
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing	
Dimensions	192 x 104 x 69 mm (7.6 x 4.1 x 2.7")	
Weight	360 g (12.7 oz.)	
Method	adaptation of the EPA method 340.1 and Standard Methods for the Examination of Water and Wastewater, 20th edition, SPADNS method	adaptation of the SPADNS method

The reagents are in liquid form and are supplied in bottles. The amount of reagent is precisely dosed by use of the supplied automatic pipette to ensure the maximum repeatability.

ORDERING INFORMATION

HI 96729 and **HI 96739** is supplied sample cuvettes (2) with caps, 9V battery and instruction manual.

CAL CHECK™ standards and testing reagents sold separately

HI 96729C and **HI 96739C** include photometer, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvette cleaning cloth, instrument quality certificate, instruction manual and rigid carrying case.

CAL CHECK™ standards and testing reagents sold separately

REAGENTS AND STANDARDS

HI 93703-53 Reagent for reducing chlorine concentration

For HI 96729

HI 96729-11 CAL CHECK™ standard cuvettes
HI 93729-01 Reagents for 100 tests
HI 93729-03 Reagents for 300 tests

For HI 96739

HI 96739-11 CAL CHECK™ standard cuvettes
HI 93739-01 Reagents for 100 tests
HI 93739-03 Reagents for 300 tests

For a complete list of Reagents, see Reagents *Section 18*.