### HI96729 • HI96739

# Fluoride Portable Photometers

### CAL Check™

 Enables users to check validity of calibration

#### • REDS

 Alerts the user of low battery power that could adversely affect reading

## GLP Features

· Meets Good Laboratory Practices

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 sea water. While fluoride does help prevent tooth decay, too little can be ineffective and too much can cause staining of teeth.

The HI96729 meter measures the fluoride (F<sup>-</sup>) content in the 0.00 to 2.00 mg/L (ppm) range, in drinking, surface and wastewaters. The amount of reagent is precisely dosed by use of the supplied automatic pipette for maximum repeatability.

The HI96739 meter measures the fluoride (F<sup>-</sup>) content in water, wastewater and sea water 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 the best results.



Range 0.00 to 2.00 mg/L (ppm) 0.0 to 20.0 mg/L (ppm)  Resolution 0.01 mg/L 0.1 mg/L  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 193 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 adaptation of the SPADNS method  H196729 and H196739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual. Acc. beck** standards and testing reagents sold separately  H196729C and H196739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvette within struction sheet, 9V battery, cuvette within struction sheet, 9V battery, cuvette within struction sheet, 9V battery, cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, 2000 µL automatic pipette with instruction sheet, 9V battery, 2000 µL automatic pipette with instruction sheet, 9V battery, 2000 µL automatic pipette wi	Specifications	Fluoride LR		Fluoride HR	
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 193 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 SPADNS method  HI96729 and HI96739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual. CAL Check™ standards and testing reagents sold separately  HI96729C and HI96739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case. Reagents sold separately  HI96729C and HI96739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction manual and rigid carrying case. Reagents sold separately  HI96729C and HI96739C include photometer, CAL Check™ standard cuvettes (2) with caps, 2000 µL automatic pipette with instruction manual and rigid carrying case. Reagents sold separately  HI96729C and HI96739C include photometer, CAL Check™ standard cuvettes HI93709-03 reagents for 100 tests  HI96739 HI9673911 CAL Check™ standard cuvettes  HI96739 HI96739-11 CAL Check™ standard cuvettes  HI96739-11 reagents for 100 tests	Range	0.00 to 2.00 mg/L (ppm)		0.0 to 20.0 mg/L (ppm)	
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 193 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 adaptation of the SPADNS method  HI96729 and HI96739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual.  CAL Check™ standards and testing reagents sold separately  HI96729C and HI96739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case.  Reagents and Standards  HI96729-11 CAL Check™ standard cuvettes  HI93703-53 reagent for reducing chlorine concentration  HI96729-11 CAL Check™ standard cuvettes  HI93729-03 reagents for 100 tests  HI96739-11 CAL Check™ standard cuvettes  HI93739-01 reagents for 100 tests	Resolution	0.01 mg/L		0.1 mg/L	
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  193 x 104 x 69 mm (7.6 x 4.1 x 2.7")  Weight  360 g (12.7 oz.)  Method  HI96729 and HI96739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual.  CAL Check™ standards and testing reagents sold separately  HI96729C and HI96739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction manual and rigid carrying case.  Reagents and Standards  HI96729  HI96729.11  CAL Check™ standard cuvettes  HI93729-01  reagents for 100 tests  HI96739-11  CAL Check™ standard cuvettes  HI96739-01  reagents for 100 tests  HI96739-01  reagents for 100 tests	Accuracy @ 25°C (77°F)	±0.03 mg/L ±3% of reading		±0.5 mg/L ±3% of reading	
Power Supply  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  193 x 104 x 69 mm (7.6 x 4.1 x 2.7")  Weight  360 g (12.7 oz.)  Method  HI96729 and HI96739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual.  CAL Check™ standards and testing reagents sold separately  HI96729C and HI967392 include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case.  Reagents and Standards  HI96729-11  CAL Check™ standard cuvettes  HI93729-03  reagents for 100 tests  HI96739-11  CAL Check™ standard cuvettes	Light Source	tungsten lamp			
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  193 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 SPADNS method  H196729 and H196739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual.  CAL Check™ standards and testing reagents sold separately  H196729C and H196739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case.  Reagents sold separately  H196729  H196729-11  CAL Check™ standard cuvettes  H193729-01  reagents for 100 tests  H196739-11  CAL Check™ standard cuvettes	Light Detector	silicon photocell with narrow band interference filter @ 575 nm			
of non-use in calibration mode; with last reading reminder  Environment  Oto 50°C (32 to 122°F); RH max 95% non-condensing  Dimensions  193 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 SPADNS method  HI96729 and HI96739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual.  CAL Check™ standards and testing reagents sold separately  HI96729C and HI96739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case.  Reagents sold separately  HI93703-53  reagent for reducing chlorine concentration  HI96729-11  CAL Check™ standard cuvettes  HI93729-01  reagents for 100 tests  HI93739-01  reagents for 300 tests  HI96739-11  CAL Check™ standard cuvettes  HI93739-01  reagents for 100 tests	Power Supply	9V battery			
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Weight       360 g (12.7 oz.)         Method       adaptation of the EPA method 340.1 and SPADNS method         HI96729 and HI96739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual. CAL Check™ standards and testing reagents sold separately         HI96729C and HI96739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 μL automatic pipette with instruction sheet, 9V battery, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case. Reagents sold separately         HI93703-53       reagent for reducing chlorine concentration         HI96729-11       CAL Check™ standard cuvettes         HI93729-01       reagents for 100 tests         HI93729-03       reagents for 300 tests         HI96739-11       CAL Check™ standard cuvettes         HI96739-01       reagents for 100 tests	Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing			
Method       adaptation of the EPA method 340.1 and SPADNS method       adaptation of the SPADNS method         Ordering Information       H196729 and H196739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual.	Dimensions	193 x 104 x 69 mm (7.6 x 4.1 x 2.7")			
And SPADNS method  and SPADNS method  HI96729 and HI96739 is supplied sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual.  CAL Check™ standards and testing reagents sold separately  HI96729C and HI96739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case.  Reagents sold separately  HI93703-53 reagent for reducing chlorine concentration  HI96729 HI96729-11 CAL Check™ standard cuvettes  HI93729-01 reagents for 100 tests  HI93729-03 reagents for 300 tests  HI96739-11 CAL Check™ standard cuvettes  HI96739-11 reagents for 100 tests	Weight	360 g (12.7 oz.)			
Quality certificate and instruction manual.         CAL Check™ standards and testing reagents sold separately         H196729C and H196739C include photometer, CAL Check™ standards, sample cuvettes (2) with caps, 2000 µL automatic pipette with instruction sheet, 9V battery, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case.         Reagents sold separately       H193703-53       reagent for reducing chlorine concentration         H196729       H196729-11       CAL Check™ standard cuvettes         H193729-01       reagents for 100 tests         H193729-03       reagents for 300 tests         H196739-11       CAL Check™ standard cuvettes         H193739-01       reagents for 100 tests	Method				
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Reagents and Standards         HI93729-01         reagents for 100 tests           HI93729-03         reagents for 300 tests           HI96739-11         CAL Check™ standard cuvettes           HI93739-01         reagents for 100 tests	_	HI96729	HI93703-53		
Standards           HI93729-03         reagents for 300 tests           HI96739-11         CAL Check™ standard cuvettes           HI93739-01         reagents for 100 tests			HI96729-11	CAL Check™ standard cuvettes	
HI96739-11 CAL Check™ standard cuvettes HI96739 HI93739-01 reagents for 100 tests			HI93729-01	reagents for 100 tests	
HI96739 HI93739-01 reagents for 100 tests			HI93729-03	reagents for 300 tests	
		HI96739	HI96739-11	CAL Check™ standard cuvettes	
HI93739-03 reagents for 300 tests			HI93739-01	reagents for 100 tests	
			HI93739-03	reagents for 300 tests	

HI96739

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Standard reagents begin on page 10.70; CAL Check™ standard reagents begin on page 10.71

