

HI 96781

# Free and Total Chlorine Photometer

Water Resistant and CAL CHECK™



- Built-in timer or direct read

## For Free and Total Chlorine Concentrations

The HI 96781 meter measures the free and total chlorine ( $\text{Cl}_2$ ) content in water samples in the 0.00 to 5.00 mg/L (ppm) range.

It has the advanced optical system based on a special tungsten lamp and a narrow band interference filter that allows the most accurate and repeatable readings. The instrument is factory calibrated and the electronic and optical design minimizes the need of frequent calibration.

With the powerful CAL CHECK™ validation function, you are able to validate performance of the instrument at any time. The validation procedure is extremely user friendly. Just use the exclusive HANNA ready-made, NIST traceable standards to verify the performance of the instrument and recalibrate if necessary.

The instrument is water resistant and the lamp and filter units are protected from dust or dirt by a transparent cup. This makes the instrument ideal for field applications. Display messages aid the user in routine operation. The meter has an auto-shut off feature that will turn off the instrument after 10 minutes of non use in measurement mode or after 1 hour if left in calibration mode.

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

The reagents are in powder form and supplied in packets. The amount of reagent is precisely dosed to ensure the maximum repeatability.

### SPECIFICATIONS

### HI 96781

Range	Free Chlorine	0.00 to 5.00 mg/L
	Total Chlorine	0.00 to 5.00 mg/L
Resolution	0.01 mg/L (0.10 mg/L over 3.50 mg/L)	
Precision	±0.02 mg/L @ 1.00 mg/L	
Light Source	Tungsten lamp	
Light Detector	Silicon Photocell with narrow band interference filter @ 525 nm	
Power Supply	(1) 9V battery	
Auto-off	After 10 minutes of non-use in measurement mode; after 1 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 102 x 67 mm (7.6 x 4 x 2.6")	
Weight	290 g (10 oz.)	
Method	Adaptation of the USEPA method 330.5 and Standard Method 4500-Cl G.	



## Available as a KIT

Just choose the "C" version

HI 96715C kit version shown.

### ORDERING INFORMATION

**HI 96781** is supplied with (2) sample cuvettes with caps, 9V battery and instruction manual.

**HI 96781C** is supplied with CAL CHECK™ standard cuvettes, (2) sample cuvettes with caps, 9V battery, cuvet cleaning cloth, scissors and instruction manual in a hard carrying case.

### REAGENTS AND STANDARDS

**HI 93701-01** Reagents for 100 Free Chlorine tests

**HI 93701-03** Reagents for 300 Free Chlorine tests

**HI 93711-01** Reagents for 100 Total Chlorine tests

**HI 93711-03** Reagents for 300 Total Chlorine tests

**HI 95701-11** CAL CHECK™ Standard Cuvets for Free Chlorine (1 set)

**HI 95711-11** CAL CHECK™ Standard Cuvets for Total Chlorine (1 set)

### SOLUTIONS

**HI 93703-50** Cuvet cleaning solution, 250 mL

### ACCESSORIES

**HI 740029P** 9V Batteries (10)

**HI 721310** 9V Batteries (100)

**HI 731318** Cuvet cleaning cloth (4)

**HI 731331** Measuring cuvettes (4)

**HI 731335** Cuvet caps(4)



HI 731318 — Cuvet Cleaning Cloth