

HI96771

Free Chlorine Ultra High Range Portable Photometer

- Up to 500 ppm chlorine range
- CAL Check
 - Allows for performance verification and calibration of the meter using NIST traceable standards
- Auto-shut off
- Built-in timer
 - Display of time remaining before a measurement is taken

The HI96771 portable photometer is for the measurement chlorine over a very wide range. Most chlorine photometers are limited to very low concentrations of chlorine. To measure a concentration outside the measurement range involved performing a dilution. The HI96771 has a unique chemistry that allows for the measurement of samples with chlorine concentrations up to 500 mg/L (ppm) without having to perform a dilution. This portable photometer features an advanced optical system; the combination of a special tungsten lamp, a narrow band interference filter, and silicon photodetector ensure accurate photometric readings every time. The Hanna exclusive CAL Check™ feature utilizes ready-made, NIST traceable standards to verify both meter validation and calibration. The exclusive cuvette locking system ensures that the cuvette is inserted into the measurement cell in the same position every time to maintain a consistent path length.

Significance of Use

As one of the oldest and most common forms of disinfection, chlorine improves water quality by destroying disease-producing microorganisms and by reacting with other organic and inorganic substances. Chlorine levels must be actively monitored to ensure sufficient chlorine is present for disinfection, as well as to control adverse effects such as taste, odor, and potential reactions with organic matter to form harmful disinfection byproducts.



Specifications

HI96771 Free Chlorine and Ultra High Range

	Free Cl (P1)	Cl, UHR (P2)
	0.00 to 5.00 mg/L (ppm)	0 to 500 mg/L (ppm)
Range	0.01 mg/L from 0.00 to 3.50 mg/L; 0.10 mg/L above 3.50 mg/L	1 mg/L from 0 to 200 mg/L; 10 mg/L above 200 mg/L
Resolution	0.01 mg/L from 0.00 to 3.50 mg/L; 0.10 mg/L above 3.50 mg/L	1 mg/L from 0 to 200 mg/L; 10 mg/L above 200 mg/L
Accuracy @ 25°C (77°F)	±0.03 mg/L ±3% of reading	±3 mg/L ±3% of reading
Light Source	tungsten lamp	
Light Detector	silicon photocell with narrow band interference filter @ 525 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 Standard Methods for the Examination of Water and Wastewater, 20th edition, 4500-Cl	
Ordering Information	HI96771 is supplied with sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual. CAL Check™ standards and testing reagents sold separately	
	HI96771C includes photometer, CAL Check™ standards, sample cuvettes (2) with caps, 9V battery, scissors, cuvette cleaning cloth, instrument quality certificate, instruction manual and rigid carrying case. Reagents sold separately	
Reagents and Standards	HI93701-01	reagents for 100 tests (free Cl)
	HI93701-03	reagents for 300 tests (free Cl)
	HI95771-01	reagents for 100 tests (UHR)
	HI95771-03	reagents for 300 tests (UHR)
	HI96771-11	CAL Check™ standards