

HI97790

Chlorine Portable Photometer

The HI97790 meter measures free and total chlorine in water samples from 0.00 to 5.00 mg/L (ppm). The method is an adaptation of the US EPA Method 330.5 and Standard Methods 4500-Cl_G, DPD Colorimetric Method.

- Only one sample needed for successive free and total chlorine measurements (using liquid reagents).
 - Take a ZERO reading
 - Add required reagents for Free Chlorine testing
 - Read Free Chlorine levels
 - Add required reagents for Total Chlorine testing
 - Read Total Chlorine levels
- Ideal for regulatory compliance in areas requiring successive sample measurements (using liquid reagents)
- Easy-to-use and cost effective while maintaining high accuracy
- Advanced LED optical system
 - Innovative optical design that utilizes a reference detector and focusing lens to eliminate errors from changes in the light source and from imperfections in the glass cuvette.
 - LEDs have a much higher luminous efficiency, providing more light while using less power. They also produce little heat, which could otherwise affect electronic stability.
- CAL Check™
 - Validate instrument performance at any time using CAL Check cuvettes made with NIST traceable standards. The CAL Check screen guides the user step-by-step through the validation process and user calibration.
- On-screen tutorial mode with animations
 - Guides users step-by-step through the measurement process
- Waterproof and floating IP67 case
- Unit of measure is displayed along with reading
- Built-in timer
 - Built-in reaction timer that ensures consistency between tests.
- Error messages on display
 - Alerts to problems including no cap, high zero, and standard too low
- GLP data:
 - Displays the last calibration date.
- Auto logging
- Battery status indicator
- Auto-shut off



Specifications		HI97790 Free and Total Chlorine
Chlorine (All Methods)	Range	0.00 to 5.00 mg/L (as Cl ₂)
	Resolution	0.01 mg/L
	Accuracy @25°C (77°F)	±0.03 mg/L ±3% of reading at 25 °C
	Method	US EPA Method 330.5 and Standard Methods 4500-Cl _G , DPD Colorimetric method
Measurement System	Light Source	light emitting diode
	Bandpass filter	wavelength 525 nm bandwidth 8 nm wavelength accuracy ±1.0 nm
	Light Detector	silicon photocell
	Cuvette type	round 24.6 mm diameter (22 mm inside)
	Auto logging	50 readings
Additional Specifications	Display	128 x 64 pixel B/W LCD with backlight
	Auto-off	after 15 minutes of inactivity (30 minutes before a READ measurement)
	Battery type / Life	alkaline 1.5 V AA (3) / > 800 measurements (without backlight)
	Environment	0 to 50°C (32 to 122°F); 0 to 100% RH, non-serviceable
	Dimensions	142.5 x 102.5 x 50.5 mm (5.6 x 4.0 x 2.0")
	Weight	380 g (13.4 oz.)

HI97790 is supplied with sample cuvette (2 pcs.), sample cuvette cap (2 pcs.), plastic stopper (2 pcs.), 1.5V AA alkaline battery (3 pcs.), quick reference guide with instructions for manual download and instrument quality certificate.

CAL Check standards and testing reagents sold separately

Ordering Information

HI97790C includes photometer, sample cuvette (2 pcs.), sample cuvette cap (2 pcs.), plastic stopper (2 pcs.), A ZERO - CAL Check™ cuvette A, HI97701B - CAL Check cuvette B for Free and Total Chlorine (powder & liquid), cloth for wiping cuvettes, scissors, 1.5V AA alkaline battery (3 pcs.), CAL Check standard certificate, quick reference guide with instructions for manual download and instrument quality certificate, and HI7101412 rigid carrying case.

Reagents sold separately

Reagents and Standards	HI97790	
		HI97701-11 CAL Check standard cuvettes for free and total chlorine
		HI93701-01 free chlorine powder reagent for 100 tests
		HI93701-03 free chlorine powder reagent for 300 tests
		HI93701-F free chlorine liquid reagent for 300 tests
		HI93711-01 total chlorine powder reagent for 100 tests
		HI93711-03 total chlorine powder reagent for 300 tests
		HI93701-T total chlorine liquid reagent for 300 tests