



HI97710

pH, Free and Total Chlorine Portable Photometer

The HI97710 meter measures free and total chlorine (Cl₂) in water samples from 0.00 to 5.00 mg/L (ppm) and pH from 6.5 to 8.5. Chlorine is a widely used disinfectant. In order for chlorine to be effective the pH of the water should be less than pH 8.0.

- **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 HI97710 pH and Free and Total Chlorine

pH	Range	6.5 to 8.5 pH
	Resolution	0.1 pH
	Accuracy @25°C (77°F)	±0.1 pH of reading at 25°C
	Method	adaptation of the Phenol Red method.
Chlorine Dioxide, Rapid Method	Range	0.00 to 2.00 mg/L (as ClO ₂)
	Resolution	0.01 mg/L
	Accuracy @25°C (77°F)	±0.10 mg/L, ±5% of reading
	Method	DPD-Glycine
Chlorine, Free and Total	Range (all methods)	0.00 to 5.00 mg/L (as Cl ₂)
	Resolution (all methods)	0.01 mg/L
	Accuracy @25°C (77°F) (all methods)	±0.03 mg/L ±3% of reading at 25°C
	Method	adaptation of the EPA DPD method 330.5
Measurement System	Light Source	light emitting diode
	Bandpass filter	525 nm
	Bandpass filter bandwidth	8 nm
	Bandpass filter wavelength accuracy	±1.0 nm
	Light Detector	silicon photocell
	Cuvette type	round 24.6 mm diameter (22 mm inside)
Additional Specifications	Auto logging	50 readings
	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.)

HI97710 is supplied with sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), instrument quality certificate, and instruction manual.

CAL Check standards and testing reagents sold separately

Ordering Information

HI97710C includes photometer, CAL Check standards, sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), cuvette wiping cloth, scissors, CAL Check standard certificate, instrument quality certificate, instruction manual, and HI7101412 rigid carrying case.

Reagents sold separately

Reagents and Standards	HI97710	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
		HI97710-11 CAL Check standard cuvettes for pH
		HI93710-01 pH reagent for 100 tests
		HI93710-03 pH reagent for 300 tests