HI97101

Bromine, Free and Total Chlorine, Cyanuric Acid, Iron LR, Iodine and pH Portable Photometer

- 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		HI97101 Bromine, Chlorine, Cyanuric Acid, Iodine, Iron LR and pH
pH	Range	6.5 to 8.5 pH
	Resolution	0.1 pH
	Accuracy @25°C (77°F)	±0.1 pH
	Method	Phenol Red method
Chlorine ,Free and Total	Range	0.00 to 5.00 mg/L (ppm)
	Resolution	0.01 mg/L
	Accuracy @25°C (77°F)	±0.03 mg/L ±3% of reading
	Method	adaptation of the USEPA method and Standard Method 4500-Cl G
Cyanuric Acid	Range (all methods)	0 to 80 mg/L (ppm)
	Resolution (all methods)	1 mg/L
	Accuracy @25°C (77°F)	±1 mg/L ±15% of reading
	Method	adaptation of the turbidimetric method
Iodine	Range	0.0 to 12.5 mg/L (ppm)
	Resolution	0.1 mg/L
	Accuracy @25°C (77°F)	±0.1 mg/L ±5% of reading
	Method	adaptation of the EPA, DPD method
Bromine	Range	0.00 to 10.00 mg/L (ppm)
	Resolution	0.01 mg/L
	Accuracy @25°C (77°F)	±0.08 mg/L ±3% of reading
	Method	adaptation of the EPA, DPD method
Iron LR	Range	0.00 to 1.60 mg/L (ppm)
	Resolution	0.01 mg/L
	Accuracy @25°C (77°F)	±0.01 mg/L ±8% or reading
	Method	adaptation of the TPTZ method
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.)
Ordering Information	**HI97101** 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 **HI97101C** includes photometer, CAL Check standards, sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), cuvette wiping cloth, CAL Check standard certificates, instrument quality certificate, instruction manual, and rigid carrying case. Reagents sold separately	
Reagents and Standards	HI97101	**HI97701-11** CAL Check standard cuvettes for free and total chlorine
		HI93701-01 free chlorine reagents for 100 tests
		HI97710-11 CAL Check standard cuvettes for pH
		HI93710-01 pH reagents for 100 tests
		HI93711-01 total chlorine reagents for 100 tests
		HI97716-11 CAL Check standard cuvettes for bromine
		HI93716-01 bromine reagents for 100 tests
		HI97718-11 CAL Check standard cuvettes for iodine
		HI93718-01 iodine reagents for 100 tests
		HI97722-11 CAL Check standard cuvettes for cyanuric acid
		HI93722-01 cyanuric acid reagents for 100 tests
		HI97746-11 CAL Check standard cuvettes for iron
		HI93746-01 iron LR reagents for 50 tests

See page 10.114 for standard reagents; see page 10.115 for CAL Check kits;
see page 10.52 for general accessories