

HI96104

pH, Free and Total Chlorine and Cyanuric Acid Portable Photometer

- **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

Specifically designed for swimming pool and spa applications, the HI96104 measures pH, free and total chlorine and cyanuric acid content.

Hanna's portable photometers feature 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

Chlorine is the most commonly used water disinfectant used by homeowners, hotels, and commercial businesses. In swimming pools, spas, and similar applications, cyanuric acid helps to stabilize chlorine and prevent its breakdown, especially in sunlight. Frequent testing of both cyanuric acid and pH helps to minimize chlorine consumption.

Reagents and Standards

HI96701-11	CAL Check standard cuvettes (free Cl)
HI93701-01	reagents for 100 tests (free Cl)
HI93701-03	reagents for 300 tests (free Cl)
HI96710-11	CAL Check standard cuvettes (pH)
HI93710-01	reagents for 100 tests (pH)
HI93710-03	reagents for 300 tests (pH)
HI96711-11	CAL Check standard cuvettes (total Cl)
HI93711-01	reagents for 100 tests (total Cl)
HI93711-03	reagents for 300 tests (total Cl)
HI96722-11	CAL Check standard cuvettes (cyanuric acid)
HI93722-01	reagents for 100 tests (cyanuric acid)
HI93722-03	reagents for 300 tests (cyanuric acid)



Specifications

HI96104 pH, Chlorine and Cyanuric Acid

Parameter Specifications	HI96104 pH, Chlorine and Cyanuric Acid	
	pH (P1)	Cl, Free (P2)
Range	6.5 to 8.5 pH	0.00 to 5.00 mg/L (ppm)
Resolution	0.1 pH	0.01 mg/L under 3.50 mg/L; 0.10 mg/L above 3.50 mg/L
Accuracy @ 25°C (77°F)	±0.1 pH	±0.03 mg/L (ppm) ±3% of reading
Additional Specifications	Chlorine, Total (P3)	
	Cyanuric Acid (P4)	
Range	0.00 to 5.00mg/L (ppm)	0 to 80 mg/L (ppm)
Resolution	0.01 mg/L under 3.50 mg/L; 0.10 mg/L above 3.50 mg/L	1 mg/L
Accuracy @ 25°C (77°F)	±0.03 mg/L ±3% of reading	±1 mg/L ±15% 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	192 x 104 x 69 mm (7.6 x 4.1 x 2.7")	
Weight	320g (11.3 oz.)	
Method	pH: phenol red method; Cl: adaptation of the EPA recommended DPD method 330.5; Cyanuric Acid: adaptation of the Turbidimetric method	
Ordering Information	<p>HI96104 is supplied with sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual. CAL Check standards and testing reagents sold separately</p> <p>HI96104C includes photometer, CAL Check standards, sample cuvettes (2) with caps, scissors, cuvette wiping cloth, 9V battery, instruction manual and rigid carrying case. Reagents sold separately</p>	