

Be sure your meter is accurate every time.

Chlorine Photometers

with CAL CHECK™

Chlorine Photometers

with CAL CHECK™



Peace of mind.

When performing measurements you need to know that the instrument you are using is right on. With Hanna's exclusive CAL CHECK™ feature you can now rest assured. Simply insert the factory calibrated standard of a known concentration and verify that your instrument is accurate.

SPECIFICATIONS		Free & Total Chlorine	Free & Total Chlorine High Range	Free Chlorine	Trace Total Chlorine	Free Chlorine For Drinking Water
Model Number		HI 95711	HI 95734	HI 95701	HI 95761	HI 95762
Range	0.00 to 5.00 mg/L Total Cl ₂	•				
	0.00 to 10.00 mg/L Total Cl ₂		•			
	0.000 to 0.500 mg/L Total Cl ₂				•	
	0.00 to 5.00 mg/L Free Cl ₂	•		•		
	0.00 to 10.00 mg/L Free Cl ₂		•			
Resolution	0.01 mg/L from 0.0 to 3.50 mg/L; 0.10 mg/L above 3.50 mg/L	•	•	•		
	0.001 mg/L				•	•
Precision	±0.02 mg/L @ 1.00 mg/L	•		•		
	±0.004 mg/L @ 0.200 mg/L				•	•
	±0.06 mg/L @ 3.00 mg/L		•			
Typical EMC Deviation	±0.01 mg/L	•	•	•		
	±0.001 mg/L				•	•
Light Source	Tungsten lamp with narrow band interference filter @ 525 nm	•	•	•	•	•
Light Detector	Silicon Photocell	•	•	•	•	•
Method	USEPA 330.5 and Standard Method 4500-Cl G	•	•	•		
	USEPA 330.5 Standard Method 4500-Cl G				•	•
Environment	0 to 50°C (32 to 122°F) max 95% RH non-condensing	•	•	•	•	•
Battery Type	1 x 9V	•	•	•	•	•
Auto-off	After 10 minutes of non-use in measurement mode and after 1 hour of non-use in calibration mode	•	•	•	•	•
Dimensions/Weight		163 x 40 x 26 mm(6.4 x 1.6 x 1")/85 g (3.0 oz.)				

HI 957XX Series Ordering Information

HI 95711 Free and Total Chlorine Meter is supplied with (2) sample cuvetts and caps, battery and instruction manual.	HI 95734 Free and Total Chlorine Meter, High Range is supplied with (2) sample cuvetts and caps, battery and instruction manual.	HI 95701 Free Chlorine Meter is supplied with (2) sample cuvetts and caps, battery and instruction manual.	HI 95761 Trace Total Chlorine Meter is supplied with (2) sample cuvetts and caps, battery and instruction manual.	HI 95762 Free Chlorine Meter for Drinking Water is supplied with (2) sample cuvetts and caps, battery and instruction manual.
HI 95711C Free and Total Chlorine Meter Kit is supplied with (2) sample cuvetts and caps, (3) CAL CHECK™ cuvetts with certificates of analysis, reagents, scissors, battery and instructions in a hard carrying case.	HI 95734C Free and Total Chlorine Meter, High Range Kit is supplied with (2) sample cuvetts and caps, (3) CAL CHECK™ cuvetts with certificates of analysis, reagents, scissors, battery and instructions in a hard carrying case.	HI 95701C Free Chlorine Meter Kit is supplied with (2) sample cuvetts and caps, (2) CAL CHECK™ cuvetts with certificates of analysis, reagents, scissors, battery and instructions in a hard carrying case.	HI 95761C Trace Total Chlorine Meter Kit is supplied with (2) sample cuvetts and caps, (2) CAL CHECK™ cuvetts with certificates of analysis, reagents, scissors, battery and instructions in a hard carrying case.	HI 95762C Free Chlorine Meter for Drinking Water Kit is supplied with (2) sample cuvetts and caps, (2) CAL CHECK™ cuvetts with certificates of analysis, reagents, scissors, battery and instructions in a hard carrying case.

Reagent Set & CAL CHECK™ Standards Ordering Information

HI 93701-01 ...100 free Cl ₂ tests	HI 93734-01 ...100 f or t Cl ₂ tests	HI 93701-01 ...100 free Cl ₂ tests	HI 95761-01 ...100 total Cl ₂ tests	HI 95762-01 ...100 free Cl ₂ tests
HI 93701-03 ...300 free Cl ₂ tests	HI 93734-03 ...300 f or t Cl ₂ tests	HI 93701-03 ...300 free Cl ₂ tests	HI 95761-03 ...300 total Cl ₂ tests	HI 95762-03 ...300 free Cl ₂ tests
HI 93711-01 ...100 total Cl ₂ tests	HI 95734-11 ...CAL CHECK™ 0.00 & 4.00 ppm f & t Cl ₂ standards	HI 95701-11 ...CAL CHECK™ 0.00 & 1.00 ppm free Cl ₂ standards	HI 95761-11 ...CAL CHECK™ 0.000 & 0.400 ppm total Cl ₂ standards	HI 95762-11 ...CAL CHECK™ 0.000 & 0.400 ppm free Cl ₂ standards

Cost effective and easy to use liquid reagents are available for some models, contact your distributor for more information.

Accessory Ordering Information for all models

HI 710009 ...Blue protective rubber boot	HI 731318 ...Tissue for wiping cuvetts (4 pcs)	HI 93703-50 ...Cuvet cleaning solution (230 mL)
HI 710010 ...Orange protective rubber boot	HI 731331 ...Glass cuvetts (4 pcs)	HI 740218 ...Deluxe hard carrying case with pre-cut foam
HI 721310 ...9V battery (10 pcs)	HI 731335 ...Caps for cuvetts (4 pcs)	

AUTHORIZED DISTRIBUTOR



www.hannainst.com

HANNA[®]
instruments

With Great Products, Come Great Results™



HANNA[®]
instruments

With Great Products, Come Great Results™



Be sure your meter is accurate every time.



HI 95711C kit and CAL CHECK™ cuvet shown

READ/TIMER function counts down to appropriate time interval before a reading is displayed. This feature ensures consistency in measurements across multiple users.

Chlorine Photometers

with CAL CHECK™

- Accuracy verification
- User calibration
- Certified calibration & verification standards
- EPA compliant
- 6 custom ranges to fit all applications
- Supplied as a complete kit
- Long battery life

Hanna's years of experience as a manufacturer of analytical instruments has led to the design of its new line of portable ion specific chlorine meters. This new line features an advanced optical system and Hanna's exclusive CAL CHECK™ validation function. The advanced optical system is based on a special tungsten lamp and a narrow band interference filter assuring accurate readings every time.

With the exclusive CAL CHECK™ validation function users are able to verify the performance of the instrument at any time. Taking just a few short steps, the validation procedure is extremely user friendly and ensures that the meter is properly

calibrated. Just use the exclusive Hanna ready-made, NiST traceable standards to verify the performance of the instrument and recalibrate if necessary. All instruments are factory calibrated and the electronic and optical design minimizes the need for frequent calibration.

Ideal for field applications, these meters are splashproof and the lamp and filter units are protected from dust or dirt by a transparent cup. Display codes aid the user in routine operations and include a low battery warning. An auto shut-off feature turns the instruments off after 10 minutes of non-use or 1 hour if left in the calibration mode.



The cuvet is made from special optical glass to obtain best results and an exclusive positive-locking system ensures that the cuvet is in the same position every time it is placed into the measurement cell. The cell is designed to fit a cuvet with a larger neck making it easier to add both samples and reagents.

The reagents are in powder form and are supplied in packets. The amount of reagent is precisely dosed to ensure maximum repeatability.



Free & Total Chlorine HI 95711

The HI 95711 measures both free & total chlorine content in water samples in the 0.00 to 5.00 mg/L (ppm) range.

Free & Total Chlorine, High Range HI 95734

The HI 95734 measures high range free and total chlorine content in water samples in the 0.00 to 10.00 mg/L (ppm) range.

Trace Total Chlorine HI 95761

Designed for very low total chlorine concentrations, the HI 95761 measures in the 0.000 to 0.500 mg/L (ppm) range.

Free Chlorine HI 95701

The HI 95701 measures free chlorine content in water samples in the 0.00 to 5.00 mg/L (ppm) range.

Free Chlorine for Drinking Water HI 95762

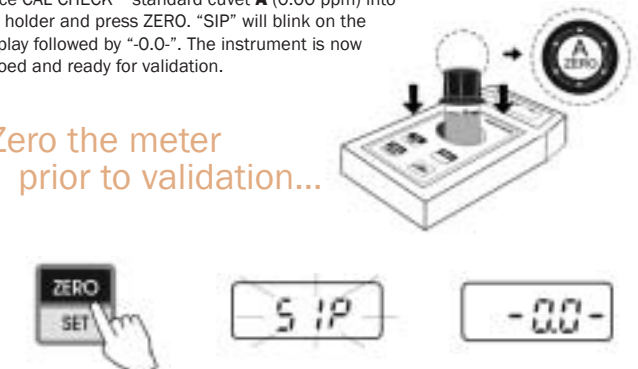
Designed for drinking water applications, the HI 95762 measures free chlorine content in water samples in the 0.000 to 0.500 mg/L (ppm) range.

CAL CHECK™ Validation

2-step Validation procedure to ensure proper calibration.

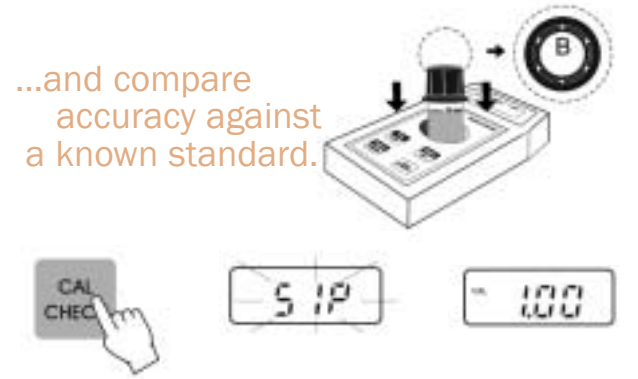
Place CAL CHECK™ standard cuvet **A** (0.00 ppm) into the holder and press ZERO. "SIP" will blink on the display followed by "-0.0-". The instrument is now zeroed and ready for validation.

Zero the meter prior to validation...



Remove cuvet **A** from the holder and place the CAL CHECK™ standard cuvet* **B** (1.00 ppm) into the cuvet holder. Press CAL CHECK™ and "SIP" will blink on the display. After a few seconds, if the display shows "1.00" the meter is accurate. If the reading is different from "1.00" then the meter needs to be re-calibrated.

...and compare accuracy against a known standard.



* Each CAL CHECK™ cuvet is clearly labeled to its respective measurement. Please read full instruction manual before validation/calibration. HI 95711 is shown as an example for validation/calibration.

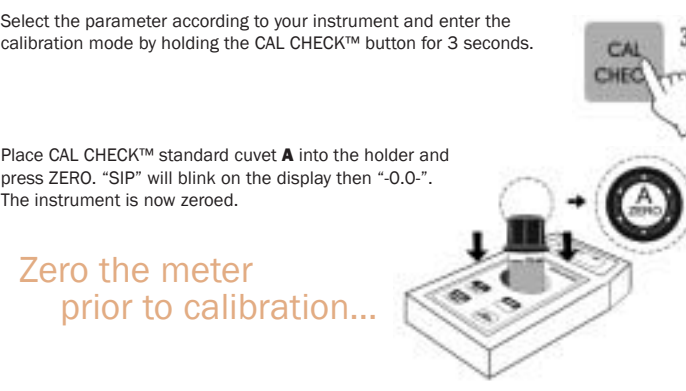
CAL CHECK™ Calibration

Calibrate your instrument in just a few quick steps

Select the parameter according to your instrument and enter the calibration mode by holding the CAL CHECK™ button for 3 seconds.

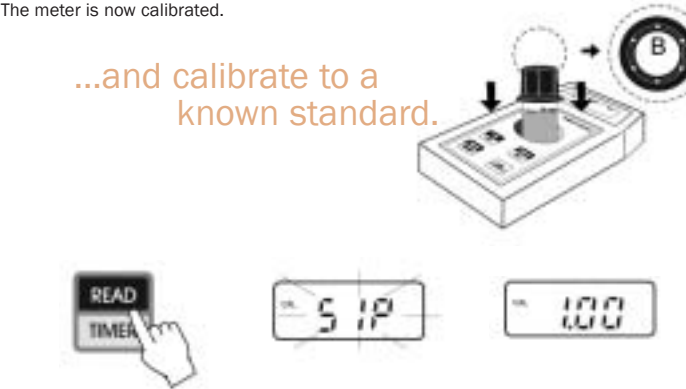
Place CAL CHECK™ standard cuvet **A** into the holder and press ZERO. "SIP" will blink on the display then "-0.0-". The instrument is now zeroed.

Zero the meter prior to calibration...



Remove cuvet **A** from the holder and place the specific Cal CHECK™ standard cuvet* **B** (known concentration standard) into the cuvet holder. Press READ/TIMER and "SIP" will blink on the display. The CAL CHECK standard value will appear on the display. The meter is now calibrated.

...and calibrate to a known standard.



Calibration Date on Display



The HI 957XX series of chlorine photometers displays the last time calibration was performed so you may schedule routine calibrations - ideal for ISO and Good Laboratory Practice environments.

Accuracy and Precision Defined

Accuracy is defined as a measurements conformity to factual value; the ability of a measurement to match the actual value of the quantity being measured. **Precision** is defined as the ability of a measurement to be consistently reproduced; a high probability of the same result each time (all other values held constant). Precision is usually expressed as a standard deviation (SD). Accurate results may be precise, but not all precise results may be accurate. The figure below explains these definitions.

In a laboratory using a standard solution of 1.00 mg/L chlorine and a representative lot of reagent, an operator obtained with a single instrument a standard deviation of 0.02 mg/L.

