

HI701 · HI762

# Free Chlorine and Ultra Low Range Free Chlorine

## Handheld Colorimeter

- Easier to use and more accurate than chemical test kits
  - EPA approved DPD method
  - Large, easy-to-read digits
  - Auto shut off
- Dedicated to a single parameter
- Small size, big convenience
  - The Checker®HC easily fits into the palm of your hand or pocket
  - Use for quick and accurate on-the-spot analysis
  - Single-button operation: zero and measure
- Ideal for:
  - Swimming pools and spas
  - Fruit and vegetable sanitation
  - Disinfection
  - Drinking water and quality control checks



The HI701 and HI762 Checker®HC bridge the gap between simple chemical test kits and professional instrumentation. Chemical test kits are not very accurate and only give 5 to 10 points resolution, while professional instrumentation can cost hundreds of dollars and can be time consuming to calibrate and maintain. These meters are accurate and affordable.

The HI701 features a resolution of 0.01 ppm and  $\pm 0.03$  ppm  $\pm 3\%$  of reading accuracy while the HI762 features a resolution of 1 ppb and  $\pm 20$  ppb  $\pm 4\%$  of reading accuracy. Both meters use an EPA approved DPD method.

The contoured style of the Checker HC fits in your palm and pocket perfectly and the large LCD is easy to read. The auto shut-off feature assures the battery life will not be drained if you forget to turn it off.

These meters are extremely simple to use. First, zero the instrument with your water sample. Next, add the reagent. Last, place the vial into the Checker HC, press the button and read the results. It's that easy.

Specifications	HI701	HI762 (ULR)
Range	0.00 to 2.50 ppm	0 to 500 ppb
Resolution	0.01 ppm	1 ppb
Accuracy @25°C (77°F)	$\pm 0.03$ ppm $\pm 3\%$ of reading	$\pm 20$ ppb $\pm 4\%$ of reading
Light Source	LED @ 525 nm	
Light Detector	silicon photocell	
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing	
Battery Type	(1) 1.5V AAA	
Auto-off	after three minutes of non-use and two minutes after reading	after ten minutes of non-use
Dimensions	86.0 x 61.0 x 37.5 mm (3.4 x 2.4 x 1.5")	
Weight	64 g (2.3 oz)	
Method	adaptation of USEPA method 330.5, DPD method	
Ordering Information	<p><b>HI701</b> Checker®HC is supplied with sample cuvettes with caps (2), free chlorine reagent starter kit (reagents for 6 tests), battery, instructions and quick start guide.</p> <p><b>HI762</b> Checker®HC is supplied with sample cuvettes with caps (2), free chlorine reagent starter kit (reagents for 6 tests), battery, instructions and quick start guide.</p>	
Reagent Set	<b>HI701-25</b> (25 tests)	<b>HI762-25</b> (25 tests)
Calibration Set	<b>HI701-11</b>	<b>HI762-11</b>

Meter Code	Parameter	Chemical Method	Reagent Code	Calibration Checking Set	# of Tests
HI700	Ammonia LR	Nessler*	HI700-25	HI700-11	25
HI701	Chlorine, Free	DPD*	HI701-25	HI701-11	25
HI702	Copper HR	Bicinchoninate*	HI702-25	HI702-11	25
HI705	Silica LR	Heteropoly Blue*	HI705-25	HI705-11	25
HI706	Phosphorus HR	Amino Acid*	HI706-25	HI706-11	40
HI707	Nitrite LR	Diazotization*	HI707-25	HI707-11	25
HI708	Nitrite HR	Ferrous Sulfate*	HI708-25	HI708-11	25
HI709	Manganese HR	Periodate*	HI709-25	HI709-11	25
HI711	Chlorine, Total	DPD*	HI711-25	HI711-11	25
HI713	Phosphate LR	Ascorbic Acid*	HI713-25	HI713-11	25
HI715	Ammonia MR	Nessler*	HI715-25	HI715-11	25
HI716	Bromine	DPD*	HI716-25	HI716-11	25
HI717	Phosphate HR	Amino Acid*	HI717-25	HI717-11	40
HI718	Iodine	DPD*	HI718-25	HI718-11	25
HI719	Magnesium Hardness	EDTA*	HI719-25	HI719-11	25
HI720	Calcium Hardness	Calmagite*	HI720-25	HI720-11	25
HI721	Iron HR	Phenantroline*	HI721-25	HI721-11	25
HI723	Chromium VI HR	Diphenylcarbohydrazide*	HI723-25	HI723-11	25
HI726	Nickel HR	Photometric*	HI726-25	HI726-11	25
HI727	Color of Water	Colorimetric Platinum Cobalt*	-	HI727-11	-
HI729	Fluoride LR	SPADNS*	HI729-26	HI729-11	20
HI733	Ammonia HR	Nessler*	HI733-25	HI733-11	20
HI736	Phosphorus, Marine ULR	Ascorbic Acid*	HI736-25	HI736-11	25
HI739	Fluoride HR	SPADNS*	HI739-26	HI739-11	30
HI746	Iron LR	TPTZ*	HI746-25	HI746-11	25
HI747	Copper LR	Bicinchoninate*	HI747-25	HI747-11	25
HI749	Chromium LR	Diphenylcarbohydrazide*	HI749-25	HI749-11	25
HI753	Chloride	Mercury(II) Thiocyanate	HI753-25	HI753-11	25
HI755	Alkalinity, Marine	Colorimetric	HI755-26	HI755-11	25
HI758	Calcium, Marine	Zincon*	HI758-26	HI758-11	25
HI761	Chlorine, Total ULR	DPD*	HI761-25	HI761-11	25
HI762	Chlorine, Free ULR	DPD*	HI762-25	HI762-11	25
HI764	Nitrite, Marine ULR	Diazotization*	HI764-25	HI764-11	25
HI767	Nitrite, Marine LR	Diazotization*	HI767-25	HI767-11	25
HI770	Silica HR	USEPA 370.1*/Std. Mtd. 4500-SiO <sub>2</sub> C*	HI770-25	HI770-11	25
HI771	Chlorine, Total UHR	4500-Cl*	HI771-25	HI771-11	25
HI772	Alkalinity, Marine	Colorimetric	HI772-26	HI772-11	25
HI774	Phosphate, Marine ULR	Ascorbic Acid*	HI774-26	HI774-11	25
HI775	Alkalinity	Colorimetric	HI775-26	HI775-11	25

\*adaptation

## Checker HC Accessories

Code	Description
HI731318	cuvette cleaning cloth (4)
HI731315	glass cuvettes and caps (2)
HI731321	glass cuvettes (4)
HI731225	cuvette cap for Checker®HC (4)
HI93703-50	cuvette cleaning solution
HI740226	5 mL graduated syringe
HI740157P	plastic refilling pipette (20)
HI740144P	pipette tip (6)
HI740143	1 mL graduated syringe (6)
HI740036P	100 mL plastic beaker (10)
HI70436M	deionized water (230 mL)
HI70436	deionized water (1G)

## Tips for an accurate measurement

It is important that the sample does not contain any debris.

Whenever the cuvette is placed into the measurement cell, it must be dry outside and completely free of fingerprints, oil or dirt. Wipe it thoroughly with HI731318 or a lint-free cloth prior to insertion.

Shaking the cuvette can generate bubbles, causing higher readings. To obtain accurate measurements, remove such bubbles by swirling or by gently tapping the cuvette.

Do not let the reacted sample stand for too long after reagent is added, or accuracy will be lost.

After the reading, it is important to discard the sample immediately, otherwise the glass might become permanently stained.

