HC

Checker® HC

Handheld Colorimeters

www.hannainst.com

an ISO 9001:2000 Certified Company

HANNA® instruments

Features

- **Easier to use and more accurate than chemical test kits**
  - High accuracy
  - Large, easy to read digits
  - Auto shut off
- **Dedicated to a single parameter**
  - Designed to work with Hanna's reagents
  - Uses 10 mL glass cuvettes
- **Small size, big convenience**
  - Weighing a mere 64 g (2.25 oz.), the Checker®HC easily fits in your palm or pocket
  - Use for quick and accurate on the spot analysis
  - Single button operation: zero and measure
  - Operated by a single AAA battery
- **Certified standards available for meter validation**

HC

Checker® HC Handheld Colorimeters

The Hanna Checker®HC bridges the gap between simple chemical test kits and professional instrumentation. Chemical test kits are not very accurate and they only give 5 to 10 points resolution while professional instrumentation offers higher resolution, but can cost hundreds of dollars and can be time consuming to calibrate and maintain. As a digital meter, the Checker®HC offers high resolution and increases accuracy while remaining as afforable as a chemical test kit.

The contoured style of the Checker®HC fits in your palm or 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.

The Checker®HC is 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.

The Checker®HC is simple to use

1 "Zero" the Checker®HC as required in specific procedure

2 Add reagent to your water sample

3 Place the vial into your Checker®HC

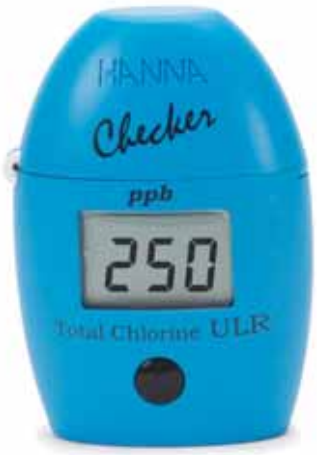
4 Press the button and read the results.

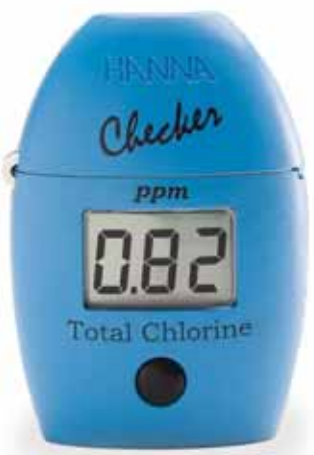
It's that easy!

General Specifications

Light Detector	silicon photocell
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Battery Type	(1) 1.5V AAA
Dimensions	81.5 x 61 x 37.5 mm (3.2 x 2.4 x 1.5")
Weight	64 g (2.25 oz.)

Checker® HC Models

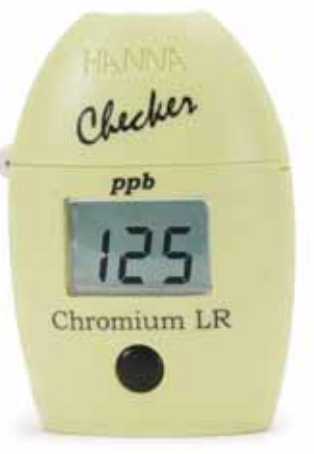




Specifications	HI 761 Total Chlorine Ultra Low Range	HI 711 Total Chlorine	HI 771 Total Chlorine Ultra High Range
Range	0 to 500 ppb	0.00 to 3.50 ppm (mg/L)	0 to 500 ppm
Resolution	1 ppb	0.01 ppm (mg/L)	1 ppm
Accuracy @ 25°C	±5ppb ± 5% of reading	±0.03 ppm ±3% of reading	±3 ppm ± 5% of reading
Light Source	Photodiode @525 nm	LED @ 525 nm	Photodiode @525 nm
Auto-off	After 10 min. of inactivity	After 2 min. of inactivity or 10 seconds after reading	After 10 min. of inactivity
Method	Adaptation of the USEPA method 330.5. The reaction between the chlorine and DPD reagent causes a pink tint in the sample.	Adaptation of USEPA method 330.5, DPD method	Adaptation of The standard methods for water and wastwater 4500Cl.

Ordering Information

	The HI 761 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	HI 711 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	The HI 771 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.

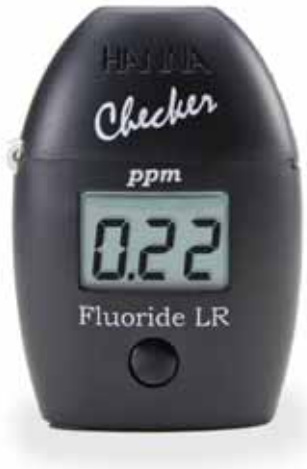


Specifications	HI 701 Free Chlorine	HI 749 Chromium VI Low Range	HI 723 Chromium High Range
Range	0.00 to 2.50 ppm (mg/L)	0 to 300 ppb	0 to 999 ppb (µg/L)
Resolution	0.01 ppm (mg/L)	1 ppb	1 ppb
Accuracy @ 25°C	±0.03 ppm ±3% of reading	±3 ppb ±5% of reading	±5 ppb ±5% of reading
Light Source	LED @ 525 nm	Photodiode @525 nm	LED @ 525 nm
Auto-off	After 2 min. of of inactivity or 10 seconds after reading	After 10 min. of inactivity	After 10 min. of inactivity
Method	Adaptation of USEPA method 330.5, DPD method	Adaptation of the ASTM Manual of Water and Environmental Technology, D1687-92, Diphenylcarbohydrazide method. The reaction between chromium VI and the reagent causes a purple tint in the sample.	Adaptaion of the ATSM, Manual of Water and Enviornmental Technology, D 1687-92, Diphenylcarbohydrazide method

Ordering Information

	HI 701 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	The HI 749 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	HI 723 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.

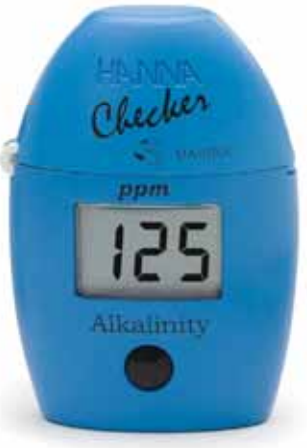
Checker® HC Models



Specifications	HI 729 Fluoride Low Range	HI 739 Fluoride High Range	HI 718 Iodine
Range	0.00 to 2.00 ppm (mg/L)	0.0 to 20.0 ppm (mg/L)	0.0 to 12.5 ppm (mg/L)
Resolution	0.01 ppm	0.1 ppm	0.1 ppm (mg/L)
Accuracy @ 25°C	±0.10 ppm ±5% of reading	±0.5 ppm ± 5% of reading	±0.1 ppm ±5% of reading
Light Source	LED @ 575 nm	LED @ 575 nm	LED @ 525 nm
Auto-off	After 2 min. of inactivity or 10 seconds after reading	After 2 min. of inactivity or 10 seconds after reading	After 2 min. of inactivity or 10 seconds after reading
Method	Adaptation of the EPA method 340.1 and Standard Methods for the Examination of Water and Wastewater, 20th Edition, SPADNS method	Adaptation of SPADNS method	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, DPD method.

Ordering Information

HI 729 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	HI 739 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	HI 718 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.



Specifications	HI 755 Alkalinity	HI 775 Alkalinity for fresh water	HI 721 Iron
Range	0 to 300 ppm (mg/L)	0 to 500 ppm	0.00 to 5.00 ppm (mg/L)
Resolution	1 ppm (mg/L)	1 ppm	0.01 ppm (mg/L)
Accuracy @ 25°C	±5 ppm (mg/L) ±5% of reading	±5ppm ± 5% of reading	±0.04 ppm ±2% of reading
Light Source	LED @ 610 nm	Photodiode @610 nm	LED @ 525 nm
Auto-off	After 10 min. of inactivity	After 10 min. of inactivity	After 3 min. of inactivity or 10 seconds after reading
Method	Colorimetric method	Colorimetric method. The reaction causes a distinctive range of colors from yellow to blue to develop. This meter has been developed to work with fresh water samples.	Adaptation of the EPA Phenantroline method 315 B, for natural and treated waters.

Ordering Information

HI 755 Checker®HC is supplied with sample cuvettes with caps (2), liquid reagent, syringe with tips, battery and instructions.	The HI 775 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	HI 721 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.

Specifications	HI 700 Ammonia Low Range	HI 715 Ammonia Medium Range	HI 733 Ammonia High Range
Range	0.00 to 3.00 ppm NH3-N	0.00 to 9.99 ppm NH3-N	0.0 to 99.9 ppm as NH4+
Resolution	0.01 ppm	0.01 ppm	0.1 ppm
Accuracy @ 25°C	±0.05ppm ± 5% of reading	±0.05ppm ±5% of reading	±1.0ppm ±5% of reading
Light Source	Photodiode @470 nm	Photodiode @470nm	Photodiode @470nm
Auto-off	After 10 min. of inactivity	After 10 min. of inactivity	After 10 min. of inactivity
Method	Adaptation of the ASTM Manual of Water and Environmental Technology, D1426-92, Nessler method. The reaction between ammonia and reagents causes a yellow tint in the sample.	Adaptation of the ASTM Manual of water and Enviromental Technology D1426-92, Nessler Method. The reaction between ammonia and reagents causes a yellow tint in the sample.	Adaptation of the ASTM Manual of water and Enviromental Technology D1426-92, Nessler Method. The reaction between ammonia and reagents causes a yellow tint in the sample.

Ordering Information

The HI 700 Checker®HC is supplied with sample cuvettes with caps (2), liquid reagent , battery and instructions.	The HI 715 Checker®HC is supplied with sample cuvettes with caps (2), liquid reagent, battery and instructions.	The HI 733 Checker®HC is supplied with sample cuvettes with caps (2), liquid reagent, battery and instructions.

Specifications	HI 764 Nitrite Ultra Low Range	HI 707 Nitrite Low Range	HI 708 Nitrite High Range
Range	0 to 200 ppb	0 to 600 ppb NO_2-N	0 to 150 ppm
Resolution	1 ppb	1 ppb	1 ppm
Accuracy @ 25°C	±10 ppb ±4% of reading	±20 ppb ± 5% of reading	±3 ppm ±5% of reading
Light Source	LED @ 525 nm	Photodiode @470 nm	Photodiode @575 nm
Auto-off	After 2 min. of inactivity	After 10 min. of inactivity	After 10 min. of inactivity
Method	Adaptation of the EPA Diazotization method 354.1	Adaptation of EPA diazotization method 354.1. The reaction between nitrite and the reagent causes a pink tint in the sample.	Adaptation of the Ferrous Sulfate method. The reaction between nitrite and the reagent causes a greenish/brown tint in the sample

Ordering Information

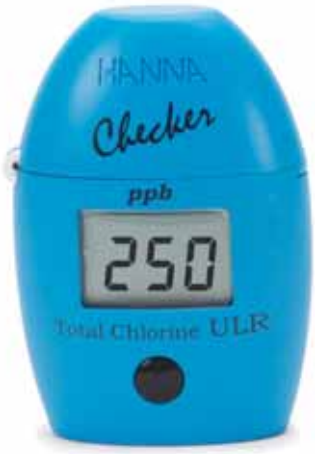
HI 764 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	The HI 707 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	The HI 708 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.

Checker® HC Models

Specifications	HI 705 Silica Low Range	HI 770 Silica High Range	HI 716 Bromine
Range	0.00 to 2.00 ppm	0 to 200 ppm	0.0 to 8.0 ppm
Resolution	0.01 ppm	1 ppm	0.1 ppm
Accuracy @ 25°C	±0.03ppm ± 5% of reading	±2 ppm ±5% of reading	±0.1 ppm ±5% of reading
Light Source	Photodiode @610 nm	LED @ 470 nm	Photodiode @525 nm
Auto-off	After 10 min. of inactivity	After 2 minutes of inactivity	After 10 min. of inactivity
Method	Adaptation of the ASTM D859 method of heteropoly blue method. The reaction between silica and reagents causes a blue tint in the sample	Adaptation of the USEPA METHOD 370.1 for drinking, surface and saline waters, domestic and industrial wastes and Standard Method 4500-SiO2 C	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, DPD method. The reaction between bromin and the reagent causes a pink tint in the sample.

Ordering Information

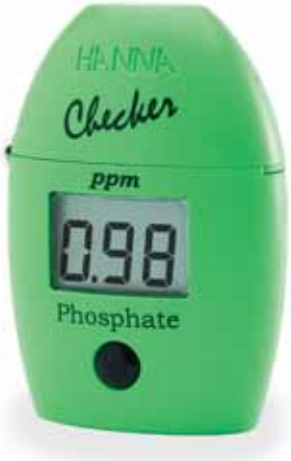
The HI 705 Checker®HC is supplied with sample cuvettes with caps (2), reagents (liquid and powder), battery and instructions.	HI 770 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	The HI 716 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.

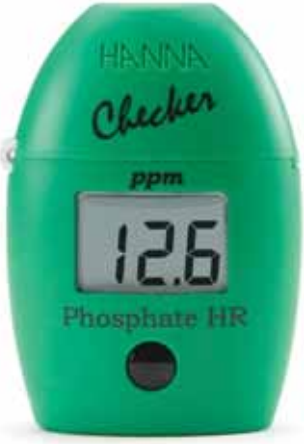


Specifications	HI 761 Total Chlorine Ultra Low Range	HI 771 Total Chlorine Ultra High Range
Range	0 to 500 ppb	0 to 500 ppm
Resolution	1 ppb	1 ppm
Accuracy @ 25°C	±5ppb ± 5% of reading	±3 ppm ± 5% of reading
Light Source	Photodiode @525 nm	Photodiode @525 nm
Auto-off	After 10 min. of inactivity	After 10 min. of inactivity
Method	Adaptation of the USEPA method 330.5. The reaction between the chlorine and DPD reagent causes a pink tint in the sample.	Adaptation of The standard methods for water and wastwater 4500Cl.

Ordering Information

The HI 761 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	The HI 771 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions..

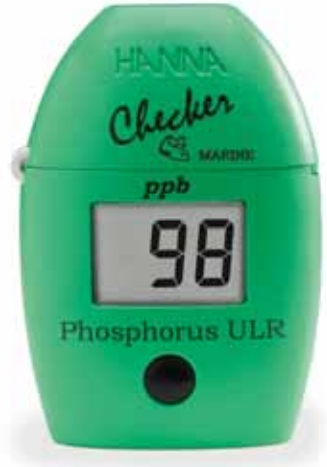


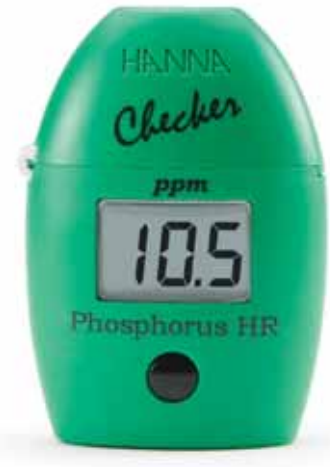


Specifications	HI 713 Phosphate Low Range	HI 717 Phosphate High Range
Range	0.00 to 2.50 ppm (mg/L)	0.0 to 30.0 ppm (mg/L)
Resolution	0.01 ppm (mg/L)	0.1 ppm (mg/L)
Accuracy @ 25°C	±0.04 ppm (mg/L) ±4% of reading	±1.0 ppm (mg/L) ±5% of reading
Light Source	LED @ 525 nm	LED @ 525 nm
Auto-off	After 2 min. of inactivity or 10 seconds after reading	After 2 min. of inactivity or 10 seconds after reading
Method	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 20th edition, Ascorbic Acid method	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Amino Acid method

Ordering Information

	HI 713 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	HI 717 Checker®HC is supplied with sample cuvettes with caps (2), reagents (liquid and powder), battery and instructions.





Specifications	HI 736 Phosphorus Ultra Low Range	HI 706 Phosphorus High Range
Range	0 to 200 ppb	0.0 to 15.0 ppm
Resolution	1 ppb	0.1 ppm
Accuracy @ 25°C	±5 ppb ±5% of reading	±0.3 ppm ±5% of reading
Light Source	LED @ 525 nm	LED @ 525 nm
Auto-off	After 2 min. of inactivity or 10 seconds after reading	After 2 min. of inactivity or 10 seconds after reading
Method	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 20th edition, Ascorbic Acid method	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th Edition, Heteropoly-molybdenum Blue method.

Ordering Information

	HI 736 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents, battery and instructions.	HI 706 Checker®HC is supplied with sample cuvettes with caps (2), reagents (liquid and powder), battery and instructions.

More accurate than chemical test kits, more affordable than laboratory instrumentation

Checker®

Handheld Colorimeters

Available models include

Alkalinity Ammonia Bromine Calcium Chromium VI Color of Water Fluoride
Iodine Iron Nickel Nitrite Phosphate Phosphorus Total Chlorine Silica

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