



HCA1 Chlorine Plus Test Kit

- Measures Free and Total Chlorine
- USEPA, DIN and ISO compliant Test Method
- Photometric measurement using a 525 nm LED
- 4 ml sample cell uses 60% less chemical per test
- Easy to use, Fast and Accurate



Description

The **Electro-Chemical Devices Chlorine Plus Test Kit** is ideal for testing Free and Total Chlorine in drinking water, wastewater, environmental waters, cooling towers and rinse waters in the food and beverage industry. The Chlorine Plus photometer is designed to use the Micro Strip reagent delivery system. The kit is supplied with 100 test strips for Free Chlorine and 100 test strips for Total Chlorine. Test strips for Combined Chlorine, Chlorine Dioxide, High Range Chlorine, Bromine, Hydrogen Peroxide, Peracetic Acid and Ozone are also available for the HCA1 Chlorine Plus meter.

This DPD test system is accepted by most health departments because this test is USEPA (DIN Standard 38 408 G4, ISO 7393/2) accepted for testing requirements for Free and Total Chlorine. All tests have been calibrated using certified reference standards and standard analytical spectrophotometric methods. The algorithm in the software of the eXact® Chlorine Plus Systems mirrors the AWWA, US EPA, DIN, and ISO reference test methods for chlorine. Studies show that the HCA1 Chlorine Plus System, with the Micro Strip CL (DPD-1), repeatedly agrees with an EPA Compliant reference method greater than 99% ($R^2 = 0.9989$, 0 - 6.0 ppm). The HCA1 Chlorine Plus Advanced Photometric System has been factory calibrated for your convenience. You can expect the fixed calibrations in the meter to be valid for the life of the meter due to the long life LED, the photo cell and the software.

The **HCA1 Chlorine Plus** meter is easy to use and is controlled

by just three buttons:

ZERO/ON When first pressed, it turns the meter ON. When pressed again, it zeroes the sample in the cell. Once the meter is zeroed, this zero value applies to all parameters and is stored and retained even when meter turns off. However, it is recommended that each new water sample analyzed is zeroed before testing, to maximize sensitivity and accuracy.

MENU: With each press, the MENU button advances through the tests in the following sequence: CL1, bR2, O3, Cd4, PA5, HP6, PH7, HR8. Each test menu can store up to 20 results. To retrieve the stored results, go to the desired test using the MENU key. When the desired test is displayed, press and hold down the MENU key. Continue holding down the MENU key to scroll the stored results for that test, starting with the most recent result. The meter will display, from memory, the last 20 readings in sequence beginning with -20, which is the latest result, followed by -19, which is the 2nd oldest result retained. Only the last 20 readings are stored in each menu. This meter is able to store 160 results in memory (20 in each menu).

READ: When pressed once, this button starts the timer for the parameter being tested. When pressed a second time the meter exits the timer and immediately prepares to colorimetrically measure the sample, and simultaneously stores the measurement in memory.

HCA1 Chlorine Plus Test Kit

Specifications

Description:	Free and Total Chlorine Test Kit
Kit Includes:	Chlorine Plus meter Micro Strip Reagent Free Chlorine (100 test strips) Micro Strip Reagent Total Chlorine (100 test strips) Instruction Manual Carrying Case with Cell Cleaning Brush
Measurement Method:	Photometric
Light Source:	Light Emitting Diode (LED)
Wavelength:	525 nm
Transmission Range:	100 - 0.00 %T
Photometric Precision:	+/- 0.1/0.01 %T
Range Selection:	See specifications below
Display:	3-digit customized liquid crystal display with annunciators
CELL Pathlength:	20mm
Cell Chamber:	Custom-molded, PET plastic fused in chamber, non-removable
Sample Required:	4 ml (0.13 oz)
Operating Temperature Range:	0 - 50°C (32° - 122°F)
Power Supply:	(4) AAAalkaline batteries (Not Included)
Battery Life:	> 2000 tests
Electromagnetic Compliance: (EMC)	Emitted Interference EN61326 Immunity to Interference EN61326
Waterproof Rating:	Exceeds IP67
Weight:	Instrument 140 g (5 oz)
Dimensions:	Instrument: 5 (w) x 3.5 (d) x 16.5 (l) cm (2 x 1.4 x 3.75 in)

Parameter	Number of Tests	Range	Chemistry
The Free Chlorine and Total Chlorine reagents are compliant for meeting USEPA (4500-Cl G)			
Free Chlorine	100	0-11 ppm	DPD-1
Total Chlorine	100	0-11 ppm	DPD-4

Part#	Description
1000040-1	Kit, Photometer Tester HCA-1, Free & Total Chlorine
1000040-2	Kit, Photometer Tester HCA-1, Free Chlorine
1000040-3	Kit, Photometer Tester HCA-1, Total Chlorine
1000040-4	Kit, Photometer Tester HCA-1, Chlorine Dioxide
9260100	Micro Strip Reagent, Free Chlorine (100 test strips)
9260101	Micro Strip Reagent, Total Chlorine (100 test strips)
9260102	Micro Strip Reagent, Chlorine Dioxide (100 test strips)

Specifications subject to change without notice.

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