HCA2 Photometric Test Kit

ELECTRO-CHEMICAL DEVICES

HCA2 Photometric Test Kit

- Measures Free and Total Chlorine, Chlorine Dioxide, Hydrogen Peroxide, Ozone, or Peracetic Acid
- 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 Photometric 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. In addition, the HCA2 can meausre Hydrogen Peroxide, Ozone, or Peracetic Acid in various applications. The HCA2 photometer is designed to use the Micro Test Strips. Each kit is supplied with test strips for your chosen parameter.

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 spectro-photometric methods. The algorithm in the software of the HCA2 meter mirrors the AWWA, US EPA , DIN, and ISO reference test methods for chlorine. Studies show that the HCA2 Chlorine meter repeatedly agrees with an EPA Compliant reference method greater than 99% (R2= 0.9989, 0 - 6.0 ppm). The HCA2 meter 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.

A Calibration Verification Solution Kit is available to verify the working condition of your HCA2 photometer.

The **HCA2** 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: CL, CLH, HP, O3, PA, PH, TC, BR, Cd. 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 80 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.

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Specifications

Kit Includes: HCA2 meter, Micro Strip Reagent Test Strips, Instruction Manual, and Carrying Case with Cell Cleaning Brush and Calibration Key

Measurement Method: Photometric

Light Source: Light Emitting Diode (LED) 525 nm

Transmission Range: 100 - 0.00 %T (+/- 0.1/0.01 %T)

Range Selection: See specifications below

Display: 3-digit LCD with indicators

Cell Chamber: 11 mm Path Length, PET plastic (non-removable), over 20,000 Readings

Sample Required: 4 ml (0.13 oz)

Operating Temperature Range: 0 - 50°C (32° - 122°F)

Power Supply: (4) AAA alkaline batteries (> 2000 tests)

Electromagnetic Compliance (EMC): Emitted / Immunity to Interference EN61326

Waterproof Rating: IP67

Weight: Instrument: 4.5 oz (128 g)

Dimensions: Instrument: 1.9” x 1.6” x 6.4” (4.8 x 4.1 x 16.3 cm)

Compliance: Chlorine, Chlorine Dioxide Tests to USEPA (DIN Standard 38 408 G4/G5, 150 7393/2)

Certified: NSF/ANSI Standard 50

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 - 12 ppm	DPD-1
Total Chlorine	100	0 - 12 ppm	DPD-4
Chlorine Dioxide	100/100 (Glycine)	0 - 6 ppm	DPD-1
High Range Free Chlorine	50	1.0 - 200 ppm	
Ozone	100	0 - 2 ppm	DPD-4
Peracetic Acid	100	2 - 590 ppm	
Hydrogen Peroxide	50	0.5 - 130 ppm	

Part#	Description
1000040-1	Kit, Photometer Tester HCA-2, Free & Total Chlorine
1000040-2	Kit, Photometer Tester HCA-2, Free Chlorine
1000040-3	Kit, Photometer Tester HCA-2,Total Chlorine
1000040-4	Kit, Photometer Tester HCA-2, Chlorine Dioxide
1000040-5	Kit, Photometer Tester HCA-2, Free Chlorine High Range 0 - 200 ppm
1000040-6	Kit, Photometer Tester HCA-2, Ozone
1000040-7	Kit, Photometer Tester HCA-2, Peracetic Acid
1000040-8	Kit, Photometer Tester HCA-2, Hydrogen Peroxide
9260100	Test Reagent, Free Chlorine (100 test strips)
9260101	Test Reagent, Total Chlorine (100 test strips)
9260102	Test Reagent, Chlorine Dioxide (100 test strips)
9260103	Test Reagent, High Range Chlorine (50 test strips)
9260104	Test Reagent, Ozone (100 test strips)
9260105	Test Reagent, Peracetic Acid (100 test strips)
9260106	Test Reagent, Hydrogen Peroxide (50 test strips)
9260107	Cal Verification (10 vials)

Specifications subject to change without notice.

Represented by:

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CERTIFIED ISO9001 QUALITY SYSTEM