

# POCKET COLORIMETER™ II



## Applications

- Drinking Water
- Wastewater
- Power
- Industrial Water
- Field Use
- Beverage
- Food QC Lab

## Small in size, big on precision and easy operation.

The Pocket Colorimeter II offers accuracy and reproducibility comparable to more expensive lab instruments, and is designed for a long working life in harsh conditions. A long-lasting LED is used as the light source, and low power requirements assure long battery life.

### Measures One or Two Parameters

The Pocket Colorimeter II is factory programmed for one or two of more than 30 possible parameters. Many are based on EPA approved methods. No manual calibration is ever required. Simply zero the instrument with a blank, insert the reacted sample, and read the result. Wavelength-specific models without factory calibration are also available for programming custom methods.

### Waterproof, Rugged, and IP67 Rated

The IP67 rating means the Pocket Colorimeter II will resist the elements and still function properly. A tough, impact-resistant shell protects the electronics and optics, while a lanyard keeps the cap attached to the colorimeter. Weighing only 0.2 kg—about a half pound—the colorimeter easily travels anywhere you do.

### Logs Last Ten Data Points With Measurement Time

The Range Indicator icon on the colorimeter's display indicates either the instrument range or the parameter being tested. For many parameters, the instrument can measure in two different ranges. The instrument logs the ten most recent data points and the time the measurements were made—no need to record results manually.

### Simple to Use

Just four buttons on the Hach Pocket Colorimeter II allow easy operation. The Read/Enter key is used when measuring sample concentrations or to confirm menu choices. The Menu key provides quick menu navigation and selection. Use the Zero/Scroll key to zero the instrument or to scroll through menu options. The Power/Backlight key turns the instrument on and toggles the display backlight for low light conditions.

## Specifications\*

<b>Lamp</b>	Light Emitting Diode (LED)	<b>Display</b>	LCD, backlit
<b>Detector</b>	Silicon	<b>Power Supply</b>	4 AAA batteries; approximate life of 2000 tests (use of backlight reduces this number)
<b>Enclosure</b>	IP67, waterproof at 1 m for 30 minutes (battery compartment excluded)	<b>Compliance</b>	European CE mark
<b>Wavelength</b>	Fixed wavelength $\pm 2$ nm, varies with model	<b>Warranty</b>	2 years
<b>Filter Bandwidth</b>	15 nm	<b>Dimensions</b>	6.1 x 15.5 x 3.5 cm (2.5 x 6.2 x 1.4 in.)
<b>Absorbance Range</b>	0 to 2.5 Abs	<b>Weight</b>	0.23 kg (0.5 lbs.)
<b>Sample Cell Pathlength</b>	1 cm and 1-in. (25 mm)		
<b>Operating Conditions</b>	0 to 50°C (32 to 122°F) 0 to 90% relative humidity		

\*Subject to change without notice.

## Parameters

Parameter	Range	Method
<b>Alachlor</b>	0.1, 0.5 ppb thresholds	Immunoassay
<b>Aluminum</b>	0.02 to 0.80 mg/L Al	Aluminon
<b>Ammonia</b>	0.01 to 0.80 mg/L NH <sub>3</sub> -N	Salicylate
<b>Ammonia, Free and Monochloramine</b>	0.02 to 0.50 mg/L Free Ammonia as NH <sub>3</sub> -N; 0.04 to 4.50 mg/L Monochloramine as Cl <sub>2</sub>	Indophenol
<b>Atrazine</b>	0.1, 0.5, 3.0 ppb thresholds	Immunoassay
<b>Bromine</b>	0.05 to 4.50; 0.2 to 10.0 mg/L Br <sub>2</sub>	DPD
<b>Chlorine, Free* and Total* **</b>	0.02 to 2.00; 0.1 to 8.0 mg/L Cl <sub>2</sub>	DPD
<b>Chlorine, Free* and Total* **, MR/HR</b>	0.05 to 4.00; 0.1 to 10.0 mg/L Cl <sub>2</sub>	DPD
<b>Chlorine, Free, Total, and pH<sup>†</sup></b>	0.1 to 10.0 mg/L Cl <sub>2</sub> 6.0 to 8.5 pH	DPD Phenol Red
<b>Chlorine, Free* and Total* ** SwifTest Dispenser</b>	0.02 to 2.00; 0.1 to 8.0 mg/L Cl <sub>2</sub>	DPD
<b>Chlorine Dioxide*</b>	0.05 to 5.00 mg/L ClO <sub>2</sub>	DPD/Glycine
<b>Chromium, Hexavalent**</b>	0.01 to 0.70 mg/L Cr <sup>6+</sup>	1,5 Diphenylcarbohydrazide
<b>Copper**</b>	0.04 to 5.00 mg/L Cu	Bicinchoninate
<b>Fluoride* **</b>	0.1 to 2.0 mg/L F <sup>-</sup> ‡	SPADNS/SPADNS 2
<b>Iron, FerroVer®***</b>	0.02 to 5.00 mg/L Fe	FerroVer
<b>Iron, TPTZ</b>	0.01 to 1.70 mg/L Fe	TPTZ
<b>Lead, LeadTrak™</b>	5 to 150 µg/L Pb	Fast Column Extraction
<b>Manganese, Low Range</b>	0.01 to 0.70 mg/L Mn	PAN
<b>Manganese, High Range**</b>	0.2-20.0 mg/L Mn	Periodate Oxidation
<b>Molybdate</b>	0.02 to 3.00; 0.1 to 12.0 mg/L Mo	Ternary Complex
<b>Monochloramine and Free Ammonia</b>	0.04 to 4.50 mg/L Monochloramine as Cl <sub>2</sub> ; 0.02 to 0.50 mg/L Free Ammonia as NH <sub>3</sub> -N	Indophenol
<b>Nickel and Cobalt</b>	0.01 to 1.00 mg/L Ni; 0.02 to 2.00 mg/L Co	PAN
<b>Nitrate</b>	0.4 to 30.0 mg/L NO <sub>3</sub> -N	Cadmium Reduction
<b>Oxygen, Dissolved</b>	0.2 to 10.0 mg/L O <sub>2</sub>	HRDO
<b>Ozone</b>	0.01 to 0.25; 0.01 to 0.75 mg/L O <sub>3</sub>	Indigo Trisulfonate
<b>PCB in Soil</b>	1, 5, 10, 50 ppm thresholds	Immunoassay
<b>Phosphate* **</b>	0.02 to 3.00 mg/L PO <sub>4</sub>	PhosVer® 3
<b>Phosphonate</b>	0.1 to 2.5; 1 to 125 mg/L PO <sub>4</sub>	PhosVer 3 with UV Digestion
<b>Silica</b>	1 to 100 mg/L SiO <sub>2</sub>	Silicomolybdate
<b>Sulfate**</b>	2 to 70 mg/L SO <sub>4</sub>	Turbidimetric
<b>TPH in Soil</b>	20, 50, 100, 200 ppm thresholds	Immunoassay
<b>TPH in Water</b>	2, 5, 10, 20 ppm thresholds	Immunoassay
<b>Zinc**</b>	0.02 to 3.00 mg/L Zn	Zincon

\*Method is USEPA accepted or approved for drinking water (additional steps may be required)

\*\*Method is USEPA accepted or approved for wastewater (additional steps may be required)

<sup>†</sup>Phenol Red colorimetric pH measurement is not accepted for regulatory reporting.

<sup>‡</sup>Greater sensitivity (0.01 mg/L) is achieved by substituting bottled SPADNS reagent for the AccuVac® Ampuls provided in the kit.

## Ordering Information

The Hach Pocket Colorimeter II includes manual, pre-measured unit dose reagents, sample cells, and a carrying case. Reagents can be refilled by contacting Hach or your Hach distributor.

<b>5870025</b>	Aluminum Pocket Colorimeter II; includes reagents for 100 tests	<b>5870021</b>	Lead, LeadTrak Pocket Colorimeter II; includes reagents for 20 tests
<b>5870040</b>	Ammonia Pocket Colorimeter II; includes reagents for 100 tests	<b>5870018</b>	Manganese, Low Range, Pocket Colorimeter II; includes reagents for 50 tests
<b>5870026</b>	Ammonia, Free and Monochloramine Pocket Colorimeter II; includes reagents for 50 Free Ammonia tests, 100 Monochloramine tests	<b>5870015</b>	Manganese, High Range, Pocket Colorimeter II; includes reagents for 100 tests
<b>2763500</b>	Atrazine Pocket Colorimeter II; includes reagents for 18 tests	<b>5870010</b>	Molybdate Pocket Colorimeter II; includes reagents for 100 tests
<b>5870001</b>	Bromine Pocket Colorimeter II; includes reagents for 50 to 100 tests	<b>5870020</b>	Nickel and Cobalt Pocket Colorimeter II; includes reagents for 100 tests
<b>5870000*</b>	Chlorine, Free and Total Pocket Colorimeter II; includes reagents for 50 to 100 tests	<b>5870002</b>	Nitrate Pocket Colorimeter II; includes reagents for 100 tests
<b>5870062*</b>	Chlorine, Free and Total Pocket Colorimeter II, MR/HR; includes reagents for 100 tests	<b>5870003</b>	Oxygen, Dissolved Pocket Colorimeter II; includes reagents for 25 tests
<b>5870012*</b>	Chlorine, Free, Total, and pH Pocket Colorimeter II; includes reagents for 100 tests	<b>5870004</b>	Ozone Pocket Colorimeter II; includes reagents for up to 50 tests
<b>5870023*</b>	Chlorine, Free, SwiftTest Dispenser Pocket Colorimeter II; includes reagents for 125 to 250 tests	<b>2773400</b>	PCB in Soil Pocket Colorimeter II; includes reagents for 18 tests
<b>5870024*</b>	Chlorine, Total SwiftTest Dispenser Pocket Colorimeter II; includes reagents for 125 to 250 tests	<b>5870006</b>	Phosphate Pocket Colorimeter II; includes reagents for 100 tests
<b>5870051</b>	Chlorine Dioxide Pocket Colorimeter II; includes reagents for 100 tests	<b>5870007</b>	Phosphonate Pocket Colorimeter II; includes reagents for 100 tests
<b>5870017</b>	Chromium, Hexavalent Pocket Colorimeter II; includes reagents for 100 tests	<b>5870034</b>	Silica Pocket Colorimeter II; includes reagents for 100 tests
<b>5870019</b>	Copper Pocket Colorimeter II; includes reagents for 100 tests	<b>5870029</b>	Sulfate Pocket Colorimeter II; includes reagents for 100 tests
<b>5870005</b>	Fluoride Pocket Colorimeter II (SPADNS); includes reagents for up to 50 tests	<b>2775000</b>	TPH in Soil Pocket Colorimeter II; includes reagents for 18 tests
<b>2513100</b>	Fluoride Pocket Colorimeter II (SPADNS 2--Arsenic-Free); includes reagents for up to 50 tests	<b>2774200</b>	TPH in Water Pocket Colorimeter II; includes reagents for 18 tests
<b>5870022</b>	Iron, FerroVer Pocket Colorimeter II; includes reagents for 100 tests	<b>5870009</b>	Zinc Pocket Colorimeter II; includes reagents for 100 tests
<b>5870016</b>	Iron, TPTZ Pocket Colorimeter II; includes reagents for 100 tests		

*\*These products are not cleared for use in testing chlorine or chloramines in dialysis applications.*

*Continued on next page.*

## Ordering Information *continued*

### Wavelength-specific Pocket Colorimeters

Program custom methods and calibrations on two channels.

- 5870042** Pocket Colorimeter II; Light Wavelength 420 nm
- 5870045** Pocket Colorimeter II; Light Wavelength 450 nm
- 5870050** Pocket Colorimeter II; Light Wavelength 500 nm
- 5870052** Pocket Colorimeter II; Light Wavelength 528 nm
- 5870055** Pocket Colorimeter II; Light Wavelength 550 nm
- 5870058** Pocket Colorimeter II; Light Wavelength 580 nm
- 5870060** Pocket Colorimeter II; Light Wavelength 600 nm
- 5870065** Pocket Colorimeter II; Light Wavelength 655 nm

### Standards

Spec✓ Ampule Standards are colored gels that simulate the color produced by the analytical procedure, for simple checks on instrument response. Each set includes a blank and three concentrations.

- 2635300** Chlorine Spec✓ Standard Kit, DPD LR (0 to 2.0 mg/L Cl<sub>2</sub>); set of 4 vials
- 2893300** Chlorine Spec✓ Standard Kit, DPD HR (0 to 6.5 mg/L Cl<sub>2</sub>); set of 4 vials
- 2712500** Fluoride Spec✓ Standard Kit (0 to 2.00 mg/L F<sup>-</sup>); set of 4 vials
- 2507500** Monochloramine/Free Ammonia Spec✓ Standard Kit  
0 to 4.5 mg/L Cl<sub>2</sub> and 0 to 0.50 mg/L NH<sub>3</sub>-N); set of 4 vials
- 2708000** Ozone MR Spec✓ Standard Kit (0 to 0.75 mg/L); set of 4 vials

### Accessory

- 5953100** Pocket Colorimeter II Soft-Sided Case/Holster  
(holds colorimeter, two sample cells and reagent pouches)



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