

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*

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

*Subject to change without notice.

Parameters

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

[†]Phenol Red colorimetric pH measurement is not accepted for regulatory reporting.

[‡]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.

5870025	Aluminum Pocket Colorimeter II; includes reagents for 100 tests	5870021	Lead, LeadTrak Pocket Colorimeter II; includes reagents for 20 tests
5870040	Ammonia Pocket Colorimeter II; includes reagents for 100 tests	5870018	Manganese, Low Range, Pocket Colorimeter II; includes reagents for 50 tests
5870026	Ammonia, Free and Monochloramine Pocket Colorimeter II; includes reagents for 50 Free Ammonia tests, 100 Monochloramine tests	5870015	Manganese, High Range, Pocket Colorimeter II; includes reagents for 100 tests
2763500	Atrazine Pocket Colorimeter II; includes reagents for 18 tests	5870010	Molybdate Pocket Colorimeter II; includes reagents for 100 tests
5870001	Bromine Pocket Colorimeter II; includes reagents for 50 to 100 tests	5870020	Nickel and Cobalt Pocket Colorimeter II; includes reagents for 100 tests
5870000*	Chlorine, Free and Total Pocket Colorimeter II; includes reagents for 50 to 100 tests	5870002	Nitrate Pocket Colorimeter II; includes reagents for 100 tests
5870062*	Chlorine, Free and Total Pocket Colorimeter II, MR/HR; includes reagents for 100 tests	5870003	Oxygen, Dissolved Pocket Colorimeter II; includes reagents for 25 tests
5870012*	Chlorine, Free, Total, and pH Pocket Colorimeter II; includes reagents for 100 tests	5870004	Ozone Pocket Colorimeter II; includes reagents for up to 50 tests
5870023*	Chlorine, Free, SwifTest Dispenser Pocket Colorimeter II; includes reagents for 125 to 250 tests	2773400	PCB in Soil Pocket Colorimeter II; includes reagents for 18 tests
5870024*	Chlorine, Total SwifTest Dispenser Pocket Colorimeter II; includes reagents for 125 to 250 tests	5870006	Phosphate Pocket Colorimeter II; includes reagents for 100 tests
5870051	Chlorine Dioxide Pocket Colorimeter II; includes reagents for 100 tests	5870007	Phosphonate Pocket Colorimeter II; includes reagents for 100 tests
5870017	Chromium, Hexavalent Pocket Colorimeter II; includes reagents for 100 tests	5870034	Silica Pocket Colorimeter II; includes reagents for 100 tests
5870019	Copper Pocket Colorimeter II; includes reagents for 100 tests	5870029	Sulfate Pocket Colorimeter II; includes reagents for 100 tests
5870005	Fluoride Pocket Colorimeter II (SPADNS); includes reagents for up to 50 tests	2775000	TPH in Soil Pocket Colorimeter II; includes reagents for 18 tests
2513100	Fluoride Pocket Colorimeter II (SPADNS 2--Arsenic-Free); includes reagents for up to 50 tests	2774200	TPH in Water Pocket Colorimeter II; includes reagents for 18 tests
5870022	Iron, FerroVer Pocket Colorimeter II; includes reagents for 100 tests	5870009	Zinc Pocket Colorimeter II; includes reagents for 100 tests
5870016	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 Cl₂); set of 4 vials
- 2893300** Chlorine Spec✓ Standard Kit, DPD HR (0 to 6.5 mg/L Cl₂); set of 4 vials
- 2712500** Fluoride Spec✓ Standard Kit (0 to 2.00 mg/L F⁻); set of 4 vials
- 2507500** Monochloramine/Free Ammonia Spec✓ Standard Kit
0 to 4.5 mg/L Cl₂ and 0 to 0.50 mg/L NH₃-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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