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)

Detector Silicon

**Enclosure** IP67, waterproof at 1 m for

30 minutes (battery compartment

excluded)

**Wavelength** Fixed wavelength ±2 nm,

varies with model

**Filter Bandwidth** 15 nm

**Absorbance Range** 0 to 2.5 Abs

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

**Display** LCD, backlit

**Power Supply** 4 AAA batteries; approximate life of

2000 tests (use of backlight reduces

this number)

**Compliance** European CE mark

Warranty 2 years

**Dimensions** 6.1 x 15.5 x 3.5 cm (2.5 x 6.2 x 1.4 in.)

**Weight** 0.23 kg (0.5 lbs.)

\*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 AI	Aluminon	
Ammonia	0.01 to 0.80 mg/L NH <sub>3</sub> -N	Salicylate	
Ammonia, Free	0.02 to 0.50 mg/L Free Ammonia as NH <sub>3</sub> -N;	Indophenol	
and Monochloramine	0.04 to 4.50 mg/L Monochloramine as CI <sub>2</sub>		
Atrazine	0.1, 0.5, 3.0 ppb thresholds	Immunoassay	
Bromine	0.05 to 4.50; 0.2 to 10.0 mg/L Br <sub>2</sub> DPD		
Chlorine, Free* and Total* **	0.02 to 2.00; 0.1 to 8.0 mg/L Cl <sub>2</sub> DPD		
Chlorine, Free* and Total* **, MR/HR	0.05 to 4.00; 0.1 to 10.0 mg/L Cl <sub>2</sub> DPD		
Chlorine, Free, Total, and pH <sup>†</sup>	0.1 to 10.0 mg/L Cl <sub>2</sub>	DPD	
	6.0 to 8.5 pH	Phenol Red	
Chlorine, Free* and Total* **	0.02 to 2.00; 0.1 to 8.0 mg/L Cl <sub>2</sub>	DPD	
SwifTest Dispenser Chlorine Dioxide*	0.05 to 5.00 mm/l. CIO	DDD/Chrains	
	0.05 to 5.00 mg/L ClO <sub>2</sub>	DPD/Glycine	
Chromium, Hexavalent**	0.01 to 0.70 mg/L Cr <sup>6+</sup>	1,5 Diphenylcarbohydrazide	
Copper** Fluoride* **	0.04 to 5.00 mg/L Cu	Bicinchoninate	
	0.1 to 2.0 mg/L F <sup>-</sup> ‡	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 <sub>2</sub> ;	Indophenol	
Nicolard and Oak alk	0.02 to 0.50 mg/L Free Ammonia as NH <sub>3</sub> -N	PAN	
Nickel and Cobalt	0.01 to 1.00 mg/L Ni; 0.02 to 2.00 mg/L Co		
Nitrate	0.4 to 30.0 mg/L NO <sub>3</sub> -N	Cadmium Reduction	
Oxygen, Dissolved	0.2 to 10.0 mg/L O <sub>2</sub>	HRDO	
Ozone	0.01 to 0.25; 0.01 to 0.75 mg/L O <sub>3</sub>	Indigo Trisulfonate	
PCB in Soil	1, 5, 10, 50 ppm thresholds	Immunoassay	
Phosphate* **	0.02 to 3.00 mg/L PO <sub>4</sub>	PhosVer® 3	
Phosphonate	0.1 to 2.5; 1 to 125 mg/L PO <sub>4</sub> PhosVer 3 with UV Digestion		
Silica	1 to 100 mg/L SiO <sub>2</sub> Silicomolybdate		
Sulfate**	2 to 70 mg/L SO <sub>4</sub>	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	

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

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

<sup>&</sup>lt;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.

Pocket Colorimeter™ II

# **Ordering Information**

includes reagents for 100 tests

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	5870015	Manganese, High Range, Pocket Colorimeter II; includes reagents for 100 tests
2763500	tests, 100 Monochloramine tests  Atrazine Pocket Colorimeter II;	5870010	Molybdate Pocket Colorimeter II; includes reagents for 100 tests
5870001	includes reagents for 18 tests  Bromine Pocket Colorimeter II;	5870020	Nickel and Cobalt Pocket Colorimeter II; includes reagents for 100 tests
5870000*	includes reagents for 50 to 100 tests  Chlorine, Free and Total Pocket Colorimeter II;	5870002	Nitrate Pocket Colorimeter II; includes reagents for 100 tests
5870062*	includes reagents for 50 to 100 tests  Chlorine, Free and Total Pocket Colorimeter II,	5870003	Oxygen, Dissolved Pocket Colorimeter II; includes reagents for 25 tests
5870012*	MR/HR; includes reagents for 100 tests  Chlorine, Free, Total, and pH Pocket Colorimeter II;	5870004	Ozone Pocket Colorimeter II; includes reagents for up to 50 tests
5870023*	includes reagents for 100 tests  Chlorine, Free, SwifTest Dispenser Pocket	2773400	PCB in Soil Pocket Colorimeter II; includes reagents for 18 tests
	Colorimeter II; includes reagents for 125 to 250 tests Chlorine, Total SwifTest Dispenser Pocket	5870006	Phosphate Pocket Colorimeter II; includes reagents for 100 tests
5870051	Colorimeter II; includes reagents for 125 to 250 tests Chlorine Dioxide Pocket Colorimeter II;	5870007	Phosphonate Pocket Colorimeter II; includes reagents for 100 tests
	includes reagents for 100 tests	5870034	Silica Pocket Colorimeter II;
5870017	Chromium, Hexavalent Pocket Colorimeter II; includes reagents for 100 tests	5870029	includes reagents for 100 tests Sulfate Pocket Colorimeter II;
5870019	Copper Pocket Colorimeter II; includes reagents for 100 tests	2775000	includes reagents for 100 tests  TPH in Soil Pocket Colorimeter II;
5870005	Fluoride Pocket Colorimeter II (SPADNS); includes reagents for up to 50 tests	2774200	includes reagents for 18 tests  TPH in Water Pocket Colorimeter II;
2513100	Fluoride Pocket Colorimeter II (SPADNS 2-Arsenic-Free);		includes reagents for 18 tests
5870022	includes reagents for up to 50 tests  Iron, FerroVer Pocket Colorimeter II;	5870009	Zinc Pocket Colorimeter II; includes reagents for 100 tests
	includes reagents for 100 tests	*These products are not cleared for use in testing chlorine or chloramines in dialysis applications.	
5870016	Iron, TPTZ Pocket Colorimeter II;		

Continued on next page.

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### **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 Pocket Colorimeter II; Light Wavelength 550 nm 5870055 Pocket Colorimeter II; Light Wavelength 580 nm 5870058 5870060 Pocket Colorimeter II; Light Wavelength 600 nm

#### **Standards**

5870065

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.

Pocket Colorimeter II; Light Wavelength 655 nm

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 Fluoride Spec ✓ Standard Kit (0 to 2.00 mg/L F-); set of 4 vials 2712500 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

Ozone MR Spec Standard Kit (0 to 0.75 mg/L); set of 4 vials

#### **Accessory**

2708000

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







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