

The new POCKET COLORIMETER II

Precision photometry to suit every pocket! In the field and the laboratory



The concept

Each HACH POCKET COLORIMETER II is programmed for one or two parameters. It fits in every pocket and yields precise results immediately, wherever you are – even under the most extreme conditions.

HACH has now enhanced its proven pocket colorimeter concept still further – with new features for more flexible and convenient use.

Advantages

- **NEW: Easy to operate** with only 3 keys
- **NEW: Watertight** after 30 minutes at a depth of 1 m
- **NEW: Wide measuring ranges** e.g. for chromium
- **NEW: Backlit** for clear readings
- **NEW: Up to 2000 tests** per battery set
- **NEW: Practical cap holder**
- **Sturdy construction** for many years of reliable analysis
- **Handy** to use in all conditions
- **Precise, reliable analysis** with the proven HACH methods
- **Wide range of models:** More than 20 variants, preprogrammed for 1-2 parameters, as well as 9 wavelength-specific variants for special applications

Competence from HACH

HACH stands for simple, accurate analysis and comprehensive service in everyday analytical practice.

The new POCKET COLORIMETER II

Variety in the details POCKET COLORIMETER II for more than 20 parameters – and user methods, too

All
POCKET COLORIMETER II
models are supplied ready
to use, complete with
operating manual,
reagents, cuvettes and
carrying case

Ordering information

Instrument for parameter*	Measuring range / mg/l	Method	Order number
Aluminium	0.10-0.80	Aluminon, 100 tests	58700-25
Ammonium	0.10-0.80	Salicylate, 100 tests	58700-40
Bromine	0.05-4.50; 0.20-10.0	DPD, 50-100 tests	58700-01
Chlorine, free + total	0.02-2.00; 0.10-8.00	DPD, 50 tests	58700-00
Chlorine, free + total, pH	0.10-10.0 Cl ₂ ; 6.0-8.5 pH	DPD, 100 tests Phenol red, 100 tests	58700-12
Chlorine dioxide	0.05-5.00	DPD/Glycine, 100 tests	58700-51
Chromium (VI)	0.01-0.70	1,5-Diphenylcarbo-hydrazide, 100 tests	58700-17
Copper	0.04-5.00	Bicinchoninate, 100 tests	58700-19
Fluoride	0.10-2.00	SPADNS, 50 tests	58700-05
Iron FerroVer	0.02-5.00	FerroVer, 100 tests	58700-22
Iron TPTZ	0.01-1.70	TPTZ, 50 tests	58700-16
Lead, LeadTrak	5-150 µg/l	Fast column extraction, 20 tests	58700-21
Manganese	0.01-0.70	PAN, 100 tests	58700-18
Manganese	0.20-20.0	Periodate oxidation, 100 tests	58700-15
Molybdate	0.02-3.00; 0.10-12.0	Ternary complexes, 100 tests	58700-10
Monochloroamine/ Free ammonium	0.04-4.50 as N; 0-1.65 as NH ₂ Cl; 0-0.55 NH ₃	Indophenol, 50 tests	58700-14
Nickel + cobalt	0.01-1.00 Ni; 0.02-2.00 Co	PAN, 100 tests	58700-20
Nitrate	0.40-30	Cadmium reduction, 100 tests	58700-02
Oxygen, dissolved	0.20-10.0	HRDO, 50 tests	58700-03
Ozone	0.01-0.25; 0.01-0.75	Indigo trisulphonate, 50 tests	58700-04
Phosphate	0.02-3.00	PhosVer 3, 100 tests	58700-06
Phosphonate, total	0.20-25.0; 1.00-125	PhosVer 3 with UV digestion, 100 tests	58700-53 (w/o UV lamp) 58700-08 (w/ UV lamp)
Silica	1.00-100	Silicomolybdate, 100 tests	58700-34
Sulphate	2.00-70.0; dep. on sample	Turbidity, 100 tests	58700-29
Zinc	0.02-3.00	Zincon, 100 tests	58700-09

* More parameters on demand, e.g. immunoassays!

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Technical data

Lamp LED

Detector Silicon photocell

Wavelength Fixed wavelength for each model, ± 2 nm

Filter band width 15 nm

Absorbance range 0-2.5 A

Display Liquid crystal digital display with switchable backlighting

Power 4 batteries (AAA) for up to 2000 tests

Size, weight 6.2 x 15.7 x 3.5 cm, 230 g

Watertight IP 67

Ambient conditions 0-50 °C, 0-90 % rel.hum.

Warranty 2 years

POCKET COLORIMETER II for special applications

58700-42	Wavelength 420 nm
58700-45	Wavelength 450 nm
58700-47	Wavelength 476 nm
58700-50	Wavelength 500 nm
58700-52	Wavelength 528 nm
58700-55	Wavelength 550 nm
58700-58	Wavelength 580 nm
58700-60	Wavelength 600 nm
58700-65	Wavelength 665 nm

DOC062.52.00608.0c103



Order your complete Pocket Colorimeter kit today.

Hach Pocket Colorimeters come complete with everything you need to start testing. Choose from this list, and call Hach to order your Pocket Colorimeter kit. We ship 95% of all Pocket Colorimeter and reagent orders in 48 hours or less! Call today: 970-669-3050.

Aluminum (Cat. #46700-25)

Range: 0-0.80 mg/L
MDL[†]: 0.01 mg/L
Method: Aluminon (100 tests)

Ammonia[™] (Cat. #46700-40)

Range: 0-0.50/0-12.5 mg/L
MDL: 0.01 mg/L
Method: Salicylate (100 tests)

Atrazine (Cat. #27635-00)

Range: 0.1, 0.5, 3.0 µg/L thresholds
Method: Immunoassay (up to 18 tests)

Bromine (Cat. #46700-01)

Range: 0-4.5/0-10 mg/L
MDL: 0.01/0.1 mg/L
Method: DPD (50-100 tests)

Chlorine, Free (F)[™] & Total (T)[™] (Cat. #46700-00)

Range: 0-2.00 (F)/0-4.5 (T) mg/L
MDL: 0.01/0.1 mg/L
Method: DPD (50-100 tests)

Chlorine, F[™] & T[™] & pH (Cat. #46700-12)

Range: 0-5.00 mg/L Cl₂
MDL: 0.01 mg/L
Method: DPD (100 tests)
Range: 6.0-8.5 pH
MDL: 0.1 pH
Method: Phenol Red (100 tests)

Chlorine Dioxide (Cat. #46700-51)

Range: 0-5.0 mg/L
MDL: 0.01 mg/L
Method: DPD/Glycine (100 tests)

Chromium, Hexavalent[™] (Cat. #46700-17)

Range: 0-0.50 mg/L
MDL: 0.01 mg/L
Method: 1,5 Diphenylcarbohydrazide (100 tests)

Copper[™] (Cat. #46700-19)

Range: 0-4.00 mg/L
MDL: 0.01 mg/L
Method: Bichinchonate (100 tests)

Fluoride^{™™} (Cat. #46700-05)

Range: 0-2 mg/L
MDL: 0.1 mg/L*
Method: SPADNS (50 tests)

Iron, FerroVer[®] (Cat. #46700-22)

Range: 0-3.00[†] mg/L
MDL: 0.01 mg/L
Method: FerroVer (100 tests)

Iron, TPfZ (Cat. #46700-16)

Range: 0-1.20 mg/L
MDL: 0.01 mg/L
Method: TPfZ (50 tests)

Lead, LeadTrak[™] (Cat. #46700-21)

Range: 0-150[†] µg/L
MDL: 1 µg/L
Method: Fast Column Extraction (20 tests)

Manganese[™] (Cat. #46700-15)

Range: 0-10.0 mg/L
MDL: 0.1 mg/L
Method: Periodate Oxidation (100 tests)

Manganese, LR (Cat. #46700-18)

Range: 0-0.70 mg/L
MDL: 0.01 mg/L
Method: PAN (100 tests)

Molybdate (Cat. #46700-10)

Range: 0-2.5/0-10.0 mg/L
MDL: 0.01/0.1 mg/L
Method: Ternary Complex (100 tests)

Monochloramine/Free Ammonia (Cat. #46700-14)

Monochloramine
Range: 0-4.5 mg/L as Cl₂
MDL: 0.10 mg/L
Method: Indophenol (50 tests)

Nickel & Cobalt (Cat. #46700-20)

Range: 0-1.00 mg/L Ni
0-2.00 mg/L Co
MDL: 0.01 mg/L
Method: PAN (100 tests)

Nitrate (Cat. #46700-02)

Range: 0-30 mg/L
MDL: 0.1 mg/L
Method: Cadmium Reduction (100 tests)

Oxygen, Dissolved (Cat. #46700-03)

Range: 0-10 mg/L
MDL: 0.1 mg/L
Method: HRDO (50 tests)

Ozone (Cat. #46700-04)

Range: 0-0.25/0-0.75 mg/L
MDL: 0.01 mg/L
Method: Indigo Trisulfonate (50 tests)

Phosphate (Cat. #46700-06)

Range: 0-3.00 mg/L
MDL: 0.01 mg/L
Method: PhosVer[®]3 (100 tests)

Phosphonate Complete (Cat. #46700-07)

Without U.V. Lamp (Cat. #46700-53)
Range: 0-25.0 mg/L (0-2.5 & 0-125 mg/L by dilution)
MDL: 0.1 mg/L
Method: PhosVer[®]3 w/UV Digestion (100 tests)

Silica (Cat. #46700-34)

Range: 0-100 mg/L
MDL: 1 mg/L
Method: Silicomolybdate (100 tests)

Sulfate (Cat. #46700-29)

Range: 0-80[†] mg/L
MDL: 1 mg/L
Method: Turbidimetric (100 tests)

TPH in Water (Cat. #26262-00)

Range: 220 ppb to 100 ppm thresholds**
Method: Immunoassay (5 tests)

Turbidity (Cat. #52600-00)

Range: 0.1-400 NTU
MDL: 0.1 NTU
Method: Nephelometric

Zinc[™] (Cat. #46700-09)

Range: 0-2.0/0-3.0 mg/L
MDL: 0.01/0.1 mg/L
Method: Zincon (100 tests)



For current price information, technical support and ordering assistance, contact the Hach office or distributor serving your area.

Hach Company is ISO 9001 Certified

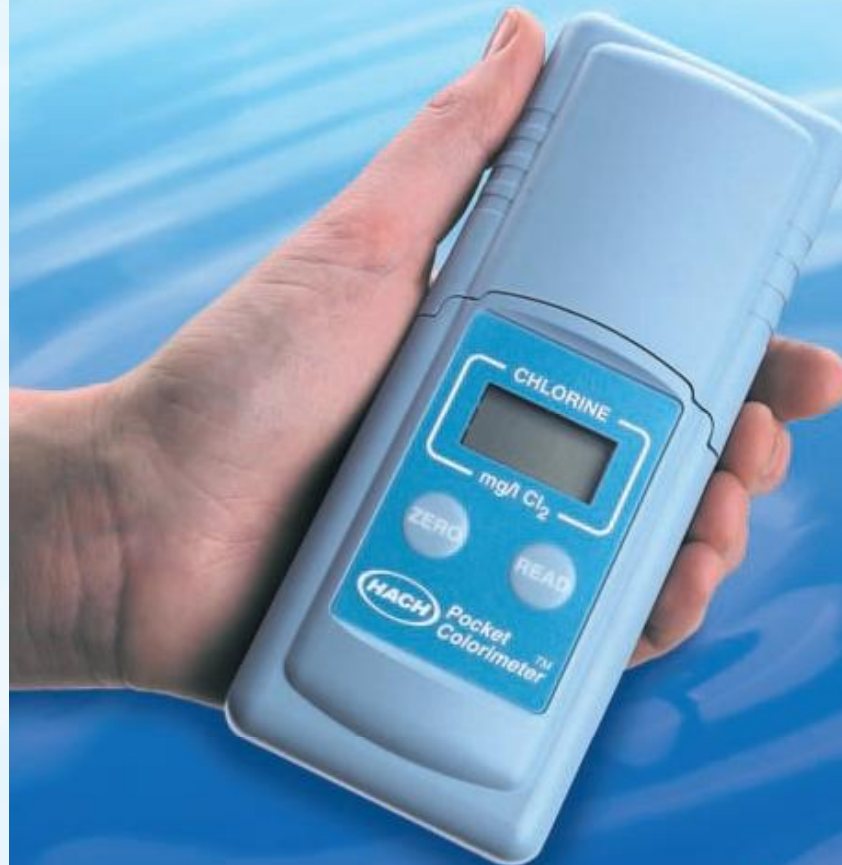
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Pocket Colorimeters[™] For years of accurate, reliable testing.



ON-SITE ANALYSIS. RESULTS YOU CAN TRUST.



[†] MDL: Minimum Detection Limit

[‡] Subject to sample variability

* Greater sensitivity (0.01 mg/L) can be achieved by substituting bottled SPADNS reagent solution for the AccuVac[®] Ampuls supplied with the kit.

** Sensitivity varies for different compounds.

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

WW = Method is USEPA accepted or approved for wastewater (additional steps may be required)

Lit. No. 1507

315 Printed in U.S.A.

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For on-site analysis and results you can trust, call 970-669-3050.

Nothing compares with a Hach Pocket Colorimeter!

Hach Pocket Colorimeters put the accuracy and reliability of a lab instrument in the palm of your hand. The integrity of each instrument is built on Hach's proven chemistries and world class engineering. When you choose a Hach Pocket Colorimeter, you can count on many years of trouble-free service in the lab or in the field – wherever your sample is!



Small, lightweight design

Each battery-operated Pocket Colorimeter weighs less than 200 g. They fit in your pocket, or in their portable carrying case, to go anywhere you need to test.

Superior accuracy, large display

Hach Pocket Colorimeters offer accuracy comparable to far more expensive lab instruments. You can rely on them in the field, or as a back-up instrument to a lab or process instrument. Each Pocket Colorimeter provides direct readout in concentration units and displays results on the large, easy-to-read LCD display.

Greater accuracy and reliability, even in harsh environments.

- Drinking water/Wastewater
- Industrial Process monitoring
- Environmental monitoring

Call 800-227-HACH (overseas call 970-669-3050) today for help in choosing the Pocket Colorimeters that will most effectively meet your testing needs. Or visit us on-line at www.hach.com.

A complete kit – includes everything required for testing.

Each Pocket Colorimeter is factory programmed with the calibration for a single parameter.* More than 35 parameters are now available and many are based upon EPA-approved methods. Your instrument comes ready-to-use in a complete kit, including an illustrated manual, premeasured unit dose reagents, sample cells and a sturdy, custom carrying case.

*Three Pocket Colorimeter models are designed to monitor two parameters: Model 46700-12 tests for pH and chlorine; Model 46700-14 tests for Monochloramine and Free Ammonia; and Model 46700-20 tests for Nickel and Cobalt.



Actual Size

Engineered to be accurate – and tough

Unlike other portable colorimeters, Hach Pocket Colorimeters are designed for a long working life, even in harsh conditions. Electronic and optical components are housed in a durable, impact-resistant shell, and the optical system features a long-lasting LED light source.

Pre-calibrated!

Our Pocket Colorimeters are factory programmed for each test. No manual calibration is ever needed! All instrument functions are simple with our two-key touch pad. You simply zero the instrument with sample blank, insert a reacted sample into the cell holder... and read the results!

Superior accuracy. Greater confidence. Only from Hach.

When you purchase a Pocket Colorimeter from the world's leading manufacturer of water analysis equipment, you will receive everything you need to start testing – and a lot more!

- A full 2-year warranty.
- Extended battery life – the best in its class.
- Superior quality & stability – guaranteed with genuine Hach reagents.

Call today to place your order! 970-669-3050.



ON-SITE ANALYSIS
RESULTS YOU CAN TRUST



Simplified analysis, economical reagents

We offer economical pack sizes of prepared, unit-dose reagents to ensure accurate results. Packs are available for conducting up to 1000 tests.



Spec.[™] Secondary Standards are available to verify instrument performance

Accuracy is designed into every Hach test system. To verify the performance of your Pocket Colorimeter use Spec.[™] standards for Aluminum, Chlorine, Fluoride, Iron, Lead, Nitrate, Oxygen and Ozone. Ask for lit# 1558 for more information.

Hach Pocket Turbidimeter—ISO compliant

This compact, rugged instrument is ideal for on-site spot checks of turbidity in the 0.1 to 400 NTU/FNU range. The Pocket Turbidimeter meets ISO 7027 standards, and offers ±5% accuracy. It comes with complete accessories – including StablCal Stabilized Formazin Standards (1 NTU/FNU and 20 NTU/FNU), batteries, six sample cells with caps, silicone oil and oiling cloth, illustrated manual, and durable carrying case.

Parameters for Industrial Process Control

Aluminum
Chromium, Hexavalent[™]
Copper[™]
Iron/ FerroVer
Iron, TPZ
Molybdate
Nickel & Cobalt
Ozone
Phosphate[™]
Phosphonate
Silica
Silver
Sulfate
Zinc[™]

Parameters for Environmental Testing

Atrazine
Dissolved Oxygen
Monochloramine / Free Ammonia
Nitrate
Phosphate[™]
TPH in Water

New Combination Chlorine/Turbidimeter Kit

Finally, the Chlorine Pocket Colorimeter and Pocket Turbidimeter together in a single kit. A great choice for testing your water distribution system. Catalog # 50018-00.

Parameters for Drinking Water and Wastewater

Ammonia
Atrazine
Bromine
Chlorine, Free (F)[™]
& Total (T)[™]
Chlorine, F & T/pH
Chlorine Dioxide
Dissolved Oxygen
Fluoride[™]
Iron/ FerroVer
Iron, TPZ
Lead, LeadTrak
Manganese, [™]HR
Manganese, LR
Monochloramine / Free Ammonia
Molybdate
Nitrate
Ozone
Phosphate[™]
Turbidity
Zinc[™]

DW – Method is USEPA accepted or approved for drinking water (additional steps may be required)
WW – Method is USEPA accepted or approved for waste water (additional steps may be required)

Pocket Colorimeter Specifications*

Power supply
4 AAA alkaline batteries; approximate life is 750 tests

Lamp
Light emitting diode (LED)

Detector
Silicon photo cell

Wavelength
Fixed wavelength ±2 nm, varies with model

Filter bandwidth
15 nm

Absorbance range
0 to ≥1A

Dimensions
3.2 x 6.1 x 15.2 cm
(1.25 x 2.4 x 6")

Net weight
0.19 kg (0.43 lb)

Operating conditions
0 to 50 °C; 0 to 90% relative humidity (noncondensing)

Sample cell pathlength
10' and 22 mm

Compliance
European CE mark.

Display
Liquid crystal

Warranty
2 years

*Not used on all instruments
*Subject to change without notice

New! Pocket Colorimeters for custom applications.

Our new Pocket Colorimeters for custom applications can be calibrated for any parameter and are available in a variety of wavelengths. These adaptable Pocket Colorimeter kits are ideal for user-defined colorimetric applications such as process monitoring. Readout is in absorbance units or units from two user-programmed two-point linear calibrations. Models are available in the following wavelengths. For more information on calibrating one of your process analyte, call Hach. 970-669-3050.

Catalog Numbers	Wavelengths
46777-42	420 nm
46777-45	450 nm
46777-47	476 nm
46777-50	500 nm
46777-52	528 nm
46777-55	550 nm
46777-58	580 nm
46777-60	600 nm
46777-65	650 nm