

## PRODUCT INFORMATION

LABORATORY ANALYSIS

COLORIMETER

POCKET COLORIMETER II



# POCKET Colorimeter II — Small in size, big on precision

The POCKET Colorimeter II has already proven its worth, but now it can serve additional application areas: These single parameter meters can now be used for key parameters to evaluate **LANGE cuvette tests** in addition to HACH tests. This dual functionality enables you to make the most of two key benefits: cost-effective meters combined with reagents for various quality standards. The result? Outstanding portable water analysis.

The numerous mini colorimeters on offer can serve a broad range of parameters from A (aluminium) to Z (zinc). Extensive measuring ranges for parameters such as ammonium, COD and chlorine extend the scope to include wastewater and drinking water applications.



**LANGE** 

UNITED FOR WATER QUALITY

# 40 POCKET mini colorimeters: Cost-effective, accurate field testing

- Extremely flexible; 40 single-parameter meters
- Suitable for various quality standards owing to a diverse range of tests
- Compact and simple to operate
- Reliable results with no mains connection
- Sturdy design, IP67 standard



From aluminium to zinc (A-Z), the diverse range of single-parameter instruments makes this mini meter a giant in the field of water analysis.

## Proven analysis:

### Now with even greater flexibility

The POCKET Colorimeter II delivers rapid, reliable results for any application thanks to consistent LANGE cuvette tests and practical HACH tests. Each mini meter can be used with the pre-configured calibration curves or self-programming by the user for special applications. This makes it possible to determine a parameter using both feed and drain samples.

## Optimum operation

You can benefit from the high quality design specifications:

- Simple operation: just four buttons are required to operate all functions.
- Safe handling: proven LANGE cuvette tests exclude sources of error instantly. ADDISTA standard solutions result in accurate quality assurance.
- All-weather equipment: optional backlighting, large digit display.

## Strong on detail

These lightweight instruments weigh just 230 grams despite their sturdy design, but they can tolerate a lot! They are waterproof in line with IP67, which is ideal for all weather conditions. The POCKETs are also suitable for prolonged use, with the batteries lasting for 2,000 analyses. All models come with a fully equipped carrying case.



Handy carrying case: The POCKET II and its accessories are safely stored and are ideal for field testing.

Parameters from aluminium to zinc (A-Z): The POCKET II evaluates PERMACHEM, ACCUVAC and LANGE cuvette tests.

LANGE reagents are easily assessed using the adapter.

Easy to carry: The lightweight yet sturdy design, combined with simple operation make the mini meter an unbeatable option for field testing.

**Order information: LANGE cuvette tests & accessories**

| CUVETTE TESTS                                | ORDER NO.  |
|----------------------------------------------|------------|
| <b>Ammonium (Xn, N)*</b>                     |            |
| 2-47 mg/L NH <sub>4</sub> -N                 | LCK 303    |
| 0.015-2 mg/L NH <sub>4</sub> -N              | LCK 304    |
| 1-12 mg/L NH <sub>4</sub> -N                 | LCK 305    |
| <b>Chloride (T, C)</b>                       |            |
| 1.0-1,000 mg/L                               | LCK 311    |
| <b>Chlorine (free, total)</b>                |            |
| 0.05-2 mg/L Cl <sub>2</sub> /O <sub>3</sub>  | LCK 310    |
| <b>COD (T, C)</b>                            |            |
| 15-150 mg/L                                  | LCK 314    |
| 50-300 mg/L                                  | LCK 614    |
| 150-1,000 mg/L                               | LCK 114    |
| 1,000-10,000 mg/L                            | LCK 014    |
| <b>Formaldehyde</b>                          |            |
| 0.5-10 mg/L                                  | LCK 325    |
| <b>Phosphate (C, Xn)</b>                     |            |
| 0.05-1.5 mg/L PO <sub>4</sub> -P             | LCK 349    |
| 0.5-5 mg/L PO <sub>4</sub> -P                | LCK 348    |
| 2-20 mg/L PO <sub>4</sub> -P                 | LCK 350    |
| <b>Zinc (Xn)</b>                             |            |
| 0.2-6.0 mg/L                                 | LCK 360    |
| <b>ADDISTA standard solutions</b>            | DOC062.    |
| LCA700-709, see document                     | 52.00269   |
| <b>ACCESSORIES &amp; SPARE PARTS</b>         |            |
| <b>Pipette 0.2-1.0 mL</b>                    | BBP078     |
| <b>Pipette tips 0.2-1.0 mL</b>               | BBP079     |
| <b>Pipette 1.0-5.0 mL</b>                    | BBP065     |
| <b>Pipette tips 1.0-5.0 mL</b>               | BBP068     |
| <b>Empty cuvettes</b>                        | LCW919     |
| <b>POCKET light protection cap</b>           | LZV759     |
| <b>Adapter for LANGE cuvette tests</b>       | 5954600    |
| <b>Stands for LANGE cuvettes</b>             | LYW915     |
| <b>LT 200 thermostat,</b>                    | LTV082.99. |
| Single block, for COD + PO <sub>4</sub> + Zn | 10002      |

\* Abbreviations of hazard symbols for reagents, see next page

**Measuring with the POCKET II for use with LANGE cuvette tests**



Out in the field: Samples are added directly for the pre-configured LANGE cuvette test. The cuvette is ready for use after a short development time.



During this waiting time, the POCKET is set to zero using the blank value cuvettes supplied. All it takes is the touch of a button. The POCKET is then ready to measure the sample cuvette.



Once the light protection cap has been fitted, measurement can start: Simply press the button to read. The large display will show the result.

# Order information

## POCKET COLORIMETER II IN CARRYING CASE

| Meter for parameters incl. reagents  | Measurement range [mg/L]             | Method               | No. of tests | Order no. |
|--------------------------------------|--------------------------------------|----------------------|--------------|-----------|
| Aluminium (Xi)*                      | 0.1–0.8                              | Aluminon             | 100          | 5870025   |
| Ammonium (C, Xn)                     | 0.01–0.8 NH <sub>3</sub> -N          | Salicylate           | 100          | 5870040   |
| Bromine                              | 0.05–4.5/0.2–10.0                    | DPD                  | 50–100       | 5870001   |
| Copper                               | 0.04–5.0                             | Bicinchoninate       | 100          | 5870019   |
| Chlorine, free + total               | 0.02–2.0/0.10–8.0                    | DPD                  | 50           | 5870000   |
| Chlorine, free + total               | 0.10–10.0 Cl <sub>2</sub>            | DPD                  | 100          | 5870012   |
| pH                                   | 6.0–8.5 pH                           | Phenol red           | 100+pH       |           |
| Chlorine dioxide                     | 0.05–5.0                             | DPD, Glycine         | 100          | 5870051   |
| Chromium VI (Xi)                     | 0.01–0.7                             | Diphenylcarbazide    | 100          | 5870017   |
| Fluoride (C)                         | 0.10–2.00                            | SPADNS               | 50           | 5870005   |
| Iron (Xn)                            | 0.02–5.0                             | FerroVer             | 100          | 5870022   |
| Iron (Xn)                            | 0.01–1.7                             | TPTZ                 | 50           | 5870016   |
| Lead (C)                             | 0.005–0.15                           | Column extraction    | 20           | 5870021   |
| Manganese (T, N)                     | 0.01–0.70                            | PAN                  | 100          | 5870018   |
| Manganese (Xi, O)                    | 0.20–20.0                            | Periodate oxidation  | 100          | 5870015   |
| Molybdate                            | 0.02–3.00/<br>0.10–12.0              | Ternary complex      | 100          | 5870010   |
| Nickel + cobalt (T)                  | 0.01–1.00 Ni<br>0.02–2.00 Co         | PAN                  | 100          | 5870020   |
| Nitrate (T, N)                       | 0.4–30 NO <sub>3</sub> -N            | Cd reduction         | 100          | 5870002   |
| Oxygen (Xi)                          | 0.20–10.0                            | HRDO                 | 50           | 5870003   |
| Ozone (Xn)                           | 0.01–0.25/<br>0.01–0.75              | Indigo trisulphonate | 50           | 5870004   |
| Phosphate (ortho/total) (Xi)         | 0.02–3.00 PO <sub>4</sub>            | PhosVer 3            | 100          | 5870006   |
| Phosphonate with UV lamp (Xi, Xn, O) | 0.10–2.5/<br>1.0–125 PO <sub>4</sub> | PhosVer 3/UV         | 100          | 5870008   |
| Silica (Xi)                          | 1.0–100 SiO <sub>2</sub>             | Molybdate            | 100          | 5870034   |
| Sulphate (Xn)                        | 2.0–70                               | Turbidity            | 100          | 5870029   |
| Zinc (Xn, N)                         | 0.02–3.0                             | Zincon               | 100          | 5870009   |

## POCKET COLORIMETER II FOR SPECIAL APPLICATIONS

|                   |                  |                       |         |
|-------------------|------------------|-----------------------|---------|
| Wavelength 420 nm | 0–2.5 extinction |                       | 5870042 |
| Wavelength 450 nm | 0–2.5 extinction | Also for immunoassays | 5870045 |
| Wavelength 500 nm | 0–2.5 extinction |                       | 5870050 |
| Wavelength 528 nm | 0–2.5 extinction |                       | 5870052 |
| Wavelength 550 nm | 0–2.5 extinction |                       | 5870055 |
| Wavelength 580 nm | 0–2.5 extinction |                       | 5870058 |
| Wavelength 600 nm | 0–2.5 extinction |                       | 5870060 |
| Wavelength 665 nm | 0–2.5 extinction |                       | 5870065 |

## POCKET COLORIMETER II FOR LANGE CUVETTE TESTS\*\*

|                      |                                        |                                    |             |
|----------------------|----------------------------------------|------------------------------------|-------------|
| Kit for ammonium     | 0.015–47 NH <sub>4</sub> -N            | LCK 303, LCK 304, LCK 305 (Xn, N)* | 5953000V.01 |
| Kit for chloride     | 1.0–1,000                              | LCK 311 (T, C)                     | 5953000V.07 |
| Kit for chlorine     | 0.05–2 Cl <sub>2</sub> /O <sub>3</sub> | LCK 310                            | 5953000V.02 |
| Kit for COD          | 15–300                                 | LCK 314, LCK 614 (T, C)            | 5953000V.03 |
| Kit for COD          | 150–10,000                             | LCK 114, LCK 014 (T, C)            | 5953000V.04 |
| Kit for formaldehyde | 0.5–10                                 | LCK 325                            | 5953000V.08 |
| Kit for phosphate    | 0.05–20 PO <sub>4</sub> -P             | LCK 349, LCK 348, LCK 350 (C, Xn)  | 5953000V.05 |
| Kit for zinc         | 0.2–6.0 Zn                             | LCK 350 (Xn)                       | 5953000V.06 |

\* Abbreviations of hazard symbols for reagents

\*\* Cuvette tests must be ordered separately.

Subject to change without notice.

## HACH LANGE Services



Contact us to place an order, request information or receive technical support.



Assurance of legal compliance, together with environmental protection via collection service for recycling of used reagents.



[www.hach-lange.com](http://www.hach-lange.com)  
up to date and secure, with downloads, information and e-shop.

## Hazard symbols for reagents



Oxidising



Toxic



Harmful



Irritant



Corrosive



Dangerous for the environment

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