

SL1000 Portable Parallel Analyzer (PPA)



Applications

- Chloramination
- Drinking Water
- Clean Water
- Boiler Water
- Cooling Water

Chloramination Testing Can be Done 75% Faster

The new Hach® SL1000 Portable Parallel Analyzer (PPA) performs the same tests with less than half the manual steps. Get highly accurate results with less opportunity for errors in a fraction of the time. Up to six parameters tested simultaneously.

Perform multiple tests faster

Complete more tests on site, get the results you need faster, allowing you to visit more sites in each shift. Perform up to four colorimetric and two probe based measurements in parallel 75% faster than with other methods.

Less Variability

Automation and internal temperature control make the entire process consistent and repeatable, while applying the same processes as current Hach methods. Avoid manual steps that can introduce variability, even when performed by experienced testers.

Less Hassle

A single instrument combines colorimetric and probe testing in a field kit that requires fewer bulky accessories. All chemicals and processes are entirely contained inside the Chemkey. There are no powder pillows or glass vials to handle.



Be Right™

Technical Data*

| | |
|------------------------------------|---|
| Battery Requirements | Rechargeable Lithium-Ion battery pack, 7.4 V, 5.0 Ah (5000 mAh) |
| Battery Life | >200 Chemkey tests per full battery charge |
| Certifications | CE, UKCA, FCC, ISED, RCM, KC |
| Detector | Silicon photodiode |
| Dimensions (H x W x D) | 258.3 mm x 130.8 mm x 58.9 mm |
| Interfaces | Mini USB |
| Measurement Modes | Transmittance (%), Absorbance (abs) and Concentration (Conc) |
| Operating Temperature Range | Discharging: 5 - 50 °C (41 to 122 °F) / maximum 85% relative humidity (non-condensing) Charging: 5 - 45 °C (41 to 113 °F) / maximum 85% relative humidity (non-condensing) |
| Protection Class | III |
| Storage Conditions | -20 - 60 °C / maximum 85% relative humidity (non-condensing) |
| Enclosure Rating | IP54 |
| Weight | 2.65 lbs. (1.2 kg) |
| Warranty | 12 months |

**Subject to change without notice.*

Chemkey Reagents*

Chemkey tests are available for the following parameters and ranges:

| Parameter | Range | Quantity | Prod. No. |
|--|---|----------|-----------|
| Chlorine, Free | 0.04 - 4.00 mg/L Cl ₂ | pk/25 | 9429000 |
| Chlorine, Free | 0.04 - 4.00 mg/L Cl ₂ | pk/300 | 8499300 |
| Chlorine, Total | 0.04 - 10 mg/L Cl ₂ | pk/25 | 9429100 |
| Chlorine, Total | 0.04 - 10 mg/L Cl ₂ | pk/300 | 8499400 |
| Monochloramine | 0.04 - 4.00 mg/L Cl ₂ | pk/25 | 9429400 |
| Ammonia, Free; Monochloramine | Free Ammonia: 0.05 - 0.50 mg/L NH ₃ -N Monochloramine: 0.04 - 4.00 mg/L Cl ₂ | pk/50 | 9429600 |
| Nitrite | 0.005 - 0.600 mg/L NO ₂ -N | pk/25 | 9429300 |
| Ammonia, Total | 0.05 - 1.50 mg/L NH ₃ -N | pk/25 | 9425200 |
| Ammonia, Free & Total; Monochloramine | Free Ammonia: 0.05 - 0.50 mg/L NH ₃ -N Total Ammonia: 0.05 - 1.50 mg/L NH ₃ -N Monochloramine: 0.04 - 4.00 mg/L Cl ₂ | pk/50 | 8791900 |
| Copper | 0.06 - 5.00 mg/L Cu | pk/25 | 9429200 |
| Dissolved Iron | 0.05 - 3.00 mg/L Fe | pk/25 | 8636000 |
| Alkalinity, HR | 200 - 700 mg/L CaCO ₃ | pk/25 | 8636100 |
| Alkalinity, LR | 20 - 200 mg/L CaCO ₃ | pk/25 | 8636200 |
| Hardness, HR | 90 - 750 mg/L CaCO ₃ | pk/25 | 8636300 |
| Hardness, LR | 3 - 100 mg/L CaCO ₃ | pk/25 | 8636400 |
| Orthophosphate, HR | 2.0 - 30.0 mg/L PO ₄ | pk/25 | 8636500 |
| Orthophosphate, LR | 0.20 - 4.00 mg/L PO ₄ | pk/25 | 8636600 |
| Peracetic Acid | 0.04 - 50.0 mg/L PAA | pk/25 | 8635200 |
| pH | pH 6.3 - 9.0 | pk/25 | 9759000 |
| Fluoride | 0.10 - 4.0 mg/L F | pk/25 | 9878000 |
| Manganese, HR | 0.10 - 25.0 mg/L Mn | pk/25 | 3007000 |
| Zinc | 0.10 - 6.0 mg/L Zn | pk/25 | 9879000 |

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Order Information

SL1000 Instrument Options

- 9430000** SL1000 Portable Parallel Analyzer (PPA)
Includes: SL1000 meter, carrying case, 1 instrument sample cup, 2 probe sample cups, rechargeable battery, battery charger, hand strap, instrument manual, and USB cable.
- 8499000** Full SL1000 Portable Parallel Analyzer (PPA) Kit
Full kit includes basic instrument package plus: 1 pH probe, 1 conductivity probe and 1 box each of Free Cl, Total Cl, Monochloramine, Nitrite and Free Ammonia Chemkeys.
- 25632200** Full SL1000 Portable Parallel Analyzer (PPA) Nitrification Kit
SL1000 meter, 1 pH probe, 1 nitrate probe, 1 box each of Free Cl, Total Cl, MonoCl, Free Ammonia and Nitrite Chemkeys, carrying case, 1 instrument sample cup, 2 probe sample cups, rechargeable battery, battery charger, handstrap, instrument manual, and USB cable.



Optional Accessories

- 9427900** Chlorine Verification Chemkey
- 9436800** System Verification Chemkey
- 9374200** Car Charger for SL1000 Portable Parallel Analyzer
- PHC20101** IntelliCAL PHC201 Laboratory General Purposes Gel Filled pH Electrode, 1 m Cable
- CDC40101** IntelliCAL CDC401 Laboratory 4-Poles Graphite Conductivity Cell, 1 m Cable
- MTC10101** IntelliCAL MTC101 Laboratory Low Maintenance Gel Filled ORP/RedOx Electrode, 1 m Cable
- LDO10101** IntelliCAL LDO101 Laboratory Luminescent/Optical Dissolved Oxygen (DO) Sensor, 1 m Cable
- ISENO318101** IntelliCAL ISENO3181 Nitrate (NO₃⁻) Ion Selective Electrode (ISE), 1 m cable
- ISEF12101** IntelliCAL ISEF121 Fluoride (F⁻) Ion Selective Electrode (ISE), 1 m cable
- ISECL18101** IntelliCAL ISECL181 Chloride (Cl⁻) Ion Selective Electrode (ISE), 1 m cable
- ISENA381AP** IntelliCAL ISENA38101 Standard Sodium ISE electrode with calibration reagents pack
- ISENH4181AP** IntelliCAL ISENH418101 Standard Ammonia ISE electrode with calibration reagents pack
- 2522905** Cotton-Tipped Applicator
- 1440049** Sodium Chloride Standard Solution, 491 mg/L NaCl (1000 μS/cm), 500 mL
- 2316949** ZoBell's Standard Solution, 500 mL

Hach World Headquarters: Loveland, Colorado USA

United States: 800-227-4224 tel 970-669-2932 fax orders@hach.com

Outside United States: 970-669-3050 tel 970-461-3939 fax int@hach.com

hach.com

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