



Applications

- Clean Water
- Boiler Water

SL1000 Portable Parallel Analyzer (PPA)



Water Quality Testing. Dramatically Streamlined.

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.

Faster Testing

Perform up to four colorimetric and two probe-based measurements in parallel, and complete the entire test suite in 25% of the time. Complete more tests on site, get the results you need faster, and visit more sites in each shift.

Less Variability

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

Less Hassle

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

Patented Chemkey® Technology

Chemkey reagents contain the same chemicals and execute the same process steps that you have trusted for decades —now delivered in a simple, self-contained package. EPA-approved for reporting of Free and Total Chlorine in drinking water applications.



Test multiple samples faster

The Multi Sample Cup enables SL1000 colorimeter measurements for up to 4 different samples simultaneously. Get the results you need faster.

The SL1000 Multi Sample Cup (105604) offers the option to measure smaller sample volumes (3 – 5 mL), for instance filtrated samples or standards.



105604 SL1000 Multi-Sample Cup

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) 7 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 to 60 °C maximum 85% relative humidity (non-condensing)
Enclosure Rating	IP54
Weight	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	Part number
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 $\text{NH}_3\text{-N}$ Monochloramine: 0.04 - 4.00 mg/L Cl_2	pk/50	9429600
Nitrite	0.005 - 0.600 mg/L $\text{NO}_2\text{-N}$	pk/25	9429300
Ammonia, Total	0.05 - 1.50 mg/L $\text{NH}_3\text{-N}$	pk/25	9425200
Ammonia, Free & Total; Monochloramine	Free Ammonia: 0.05 - 0.50 mg/L $\text{NH}_3\text{-N}$ Total Ammonia: 0.05 - 1.50 mg/L $\text{NH}_3\text{-N}$ 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

- 105604** SL1000 Multi-Sample Cup
- 9427900** Chlorine Verification Chemkey
- 9436800** System Verification Chemkey
- 9374200** Car Charger for SL1000/SL250 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 (NO_3^-) 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** 491 mg/L NaCl (1000 $\mu\text{S}/\text{cm}$), 500 mL
- 2316949** ZoBell's Standard Solution, 500 mL



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DOC052.53.25007.May25