HACH®
Be Right™

Applications
- Clean Water
- Boiler water

SL1000 Portable Parallel Analyser (PPA)



Water quality testing. Dramatically streamlined.

The new Hach® SL1000 Portable Parallel Analyser (PPA) performs common water tests with less than half the manual steps. It produces highly accurate results with less opportunity for errors in a fraction of the time and allows for up to six parameters to be tested simultaneously.

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 headache

A single instrument combines colorimetric and electrochemical 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.

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. Improve efficiency by completing more tests on site with faster results.

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
Measuring mode	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 - 60 °C / maximum 85% relative humidity (non-condensing)
Enclosure waterproof rating	IP54
Weight	1.2 kg
Warranty	24 months

**Subject to change without notice.*

Chemkey Reagents*

Chemkey tests are available for the following parameters and ranges:

Parameter	Measuring range	Quantity	Part number
Free Chlorine	0.04 - 4.00 mg/L Cl_2	pk/25	9429000
Free Chlorine	0.04 - 4.00 mg/L Cl_2	pk/300	8499300
Total Chlorine	0.04 - 10 mg/L Cl_2	pk/25	9429100
Total Chlorine	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
Total Ammonia	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	25/pk	9878000
Manganese, HR	0.10 - 25.0 mg/L Mn	25/pk	3007000
Zinc	0.10 - 6.0 mg/L Zn	25/pk	9879000

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Order Information

SL1000 Instrument Options

LPV443.99.10002 SL1000 Portable Parallel Analyser (PPA)
Includes: SL1000 meter, carrying case, 1 instrument sample cup, 2 electrode sample cups, rechargeable battery, battery charger, hand strap, instrument manual, and USB cable.

LPV443.99.20002 Full SL1000 Portable Parallel Analyser (PPA) Kit
Includes basic instrument package plus: 1 pH electrode, 1 conductivity electrode and 1 box each of Free Cl, Total Cl, Monochloramine, Nitrite and Free Ammonia Chemkeys.





Optional Accessories

105604	SL1000 Multi-Sample Cup
9427900	Chlorine verification Chemkey
9436800	System verification Chemkey
9374200	Car charger for SL1000/SL250 Portable Parallel Analyser
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 Sodium (Na^+) Ion Selective Electrode (ISE) with Calibration Reagents Pack
ISENH4181AP	Intellical ISENH418101 Ammonium (NH_4^+) Ion Selective Electrode (ISE) with Calibration Reagents Pack
2522905	Cotton-tipped applicator
1440049	491 mg/L NaCl (1000 µS/cm), 500 mL
2316949	ZoBell's Standard Solution, 500 mL