

# SL1000 Portable Parallel Analyser (PPA)



## Applications

- Clean Water
- Boiler water



## 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.



## Technical Data\*

<b>Battery requirements</b>	Rechargeable Lithium-Ion battery pack, 7.4 V, 5.0 Ah (5000 mAh)
<b>Battery life</b>	>200 Chemkey tests per full battery charge
<b>Certifications</b>	CE, UKCA, FCC, ISED, RCM, KC
<b>Detector</b>	Silicon photodiode
<b>Dimensions (H x W x D)</b>	258.3 mm x 130.8 mm x 58.9 mm
<b>Interfaces</b>	Mini USB
<b>Measuring mode</b>	Transmittance (%), absorbance (abs) and concentration (Conc)
<b>Operating temperature range</b>	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)
<b>Protection class</b>	III
<b>Storage conditions</b>	-20 - 60 °C / maximum 85% relative humidity (non-condensing)
<b>Enclosure waterproof rating</b>	IP54
<b>Weight</b>	1.2 kg
<b>Warranty</b>	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 <sub>2</sub>	pk/25	9429000
Free Chlorine	0.04 - 4.00 mg/L Cl <sub>2</sub>	pk/300	8499300
Total Chlorine	0.04 - 10 mg/L Cl <sub>2</sub>	pk/25	9429100
Total Chlorine	0.04 - 10 mg/L Cl <sub>2</sub>	pk/300	8499400
Monochloramine	0.04 - 4.00 mg/L Cl <sub>2</sub>	pk/25	9429400
Ammonia, Free; Monochloramine	Free Ammonia: 0.05 - 0.50 mg/L NH <sub>3</sub> -N Monochloramine: 0.04 - 4.00 mg/L Cl <sub>2</sub>	pk/50	9429600
Nitrite	0.005 - 0.600 mg/L NO <sub>2</sub> -N	pk/25	9429300
Total Ammonia	0.05 - 1.50 mg/L NH <sub>3</sub> -N	pk/25	9425200
Ammonia, Free & Total; Monochloramine	Free Ammonia: 0.05 - 0.50 mg/L NH <sub>3</sub> -N Total Ammonia: 0.05 - 1.50 mg/L NH <sub>3</sub> -N Monochloramine: 0.04 - 4.00 mg/L Cl <sub>2</sub>	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 <sub>3</sub>	pk/25	8636100
Alkalinity, LR	20 - 200 mg/L CaCO <sub>3</sub>	pk/25	8636200
Hardness	90 - 750 mg/L CaCO <sub>3</sub>	pk/25	8636300
Hardness	3 - 100 mg/L CaCO <sub>3</sub>	pk/25	8636400
Orthophosphate	2.0 - 30.0 mg/L PO <sub>4</sub>	pk/25	8636500
Orthophosphate	0.20 - 4.00 mg/L PO <sub>4</sub>	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

- 9427900** Chlorine verification Chemkey
- 9436800** System verification Chemkey
- 9374200** Car charger for SL1000 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 ( $\text{NO}_3^-$ ) Ion Selective Electrode (ISE), 1 m cable
- ISEF12101** Intellical ISEF121 Fluoride ( $\text{F}^-$ ) Ion Selective Electrode (ISE), 1 m cable
- ISECL18101** Intellical ISECL181 Chloride ( $\text{Cl}^-$ ) Ion Selective Electrode (ISE), 1 m cable
- ISENA381AP** Intellical ISENA38101 Sodium ( $\text{Na}^+$ ) Ion Selective Electrode (ISE) with Calibration Reagents Pack
- ISENH4181AP** Intellical ISENH418101 Ammonium ( $\text{NH}_4^+$ ) Ion Selective Electrode (ISE) with Calibration Reagents Pack
- 2522905** Cotton-tipped applicator
- 1440049** Sodium Chloride Standard Solution, 491 mg/L NaCl (1000  $\mu\text{S}/\text{cm}$ ), 500 mL
- 2316949** ZoBell's Standard Solution, 500 mL

