

Technical Specifications

- Equipment Interface: 240 × 128 dots LCD touch display
- Analysis principle: Direct “Flow Thru” Ion selective electrodes (ISE)
- Sample volume: 100 µl
- Sample type: Whole Blood, Serum, Plasma, Urine, CSF
- Sample Application: Sample Cup, Capillary or Collection Tube
- Throughput: 50 samples/hour
- Calibration: Automatic two-point calibration with additional option for carrying out one-point and two-point calibration manually
- Standby wash time and steps are preadjusted
- Quality Control: 3 different levels of quality controls. Storage capacity for days of QC results
- Normal Reference: Range Users can adjust reference range for all parameters according to their requirements. Flagging of abnormal samples provides easier analysis
- Printer: Built in Stationary Head Graphical Thermal Printer
- Storage Capacity Patient Results: 250 samples
- Interface port: RS 232 Interface
- Power Voltage: Power 110 ~ 230 V AC, 50/60 Hz
- Dimensions 300(H) × 300(W) × 300(D) mm
- Equipment weight: 6,5 Kg approx.
- Operating environment Temperature: 15° to 40°C, 59-104° F, 20%~ 80% RH



ORDERING INFORMATION

| Convergys® | REF |
|-----------------------------|-----------|
| Convergys® ISE NG | 1100-1051 |
| Calibrator Convergys® CAL-1 | 1100-1013 |
| Calibrator Convergys® CAL-2 | 1100-1014 |

| | Linearity | CV | SD |
|------------------|---------------|-----|-------|
| K ⁺ | 0.5-15 mmol/L | ≤1% | ≤0.08 |
| Na ⁺ | 80-200mmol/L | ≤1% | ≤3.0 |
| Li ⁺ | 0.1-4.0mmol/L | ≤3% | ≤0.06 |
| Ca ⁺⁺ | 0.5-5.0mmol/L | ≤2% | ≤0.05 |
| Cl ⁻ | 80-200mmol/L | ≤1% | ≤2.0 |
| pH | 4.0-9.0 | ≤1% | ≤0.05 |

Convergys® ISE NG is available in various electrode configurations offering laboratories extreme flexibility.

Available electrode configurations
Na⁺, K⁺, Ca⁺⁺, Cl⁻, pH
Na⁺, K⁺, Cl⁻
Na⁺, K⁺, Ca⁺⁺
Na⁺, K⁺, Li⁺

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Convergys® ISE NG

The comfortable way
of Electrolyte Analysis

- Available electrodes
Na⁺, K⁺, Ca⁺⁺, Cl⁻, Li⁺, pH
- 240 × 128 dots LCD touch display
- 100 µl sample volume – Whole Blood, Serum, Plasma, Urine, CSF
- Throughput: 50 samples/hour
- LIMS enabled

ISE Electrolyte Analysis with Convergys® ISE NG

The *Convergys® ISE NG* is a fully automatic ISE based Electrolyte Analyzer to measure Na⁺, K⁺, Li⁺, Ca⁺⁺, pH and Cl⁻ concentrations in blood, plasma, CSF and urine.

Convergys® ISE NG is designed, developed and manufactured in Germany. It has a very compact design and the only interface is an extremely user-friendly LCD touch panel with logically assigned menu structures. The aspiration system is integrated inside the equipment affording an enhanced operator safety and also minimizing the risk of needle contamination. The aspirate probe is

designed to accommodate the test samples from a sample cup, capillary or collection tube. The calibrators CAL1 and CAL2 are packed in a cartridge to avoid any undue contamination. With an on-screen Reagent Management System the operator is able to monitor the status of reagents as well as of waste bottle. Both CAL1 and CAL2 can be replaced independently to optimize the operating costs.

A dedicated tubing design ensures minimized clogging and an integrated air-liquid-air-liquid rinsing mode helps avoid carry over.

High voltage electronic components are completely segregated from the liquid handling systems as well as electrodes chamber to ensure more accurate results as well as enhanced electrical safety.

Seamless data transfer to a PC and Patient Data Management through proprietary *Convergys® LIMS* software make *Convergys® ISE NG* a versatile unit for present day laboratory needs.

Special Features

- Large size 240 x 128 dots LCD touch panel
- Automatic aspiration of the sample
- Integrated Reagent Management System and waste bottle alarm
- Dedicated design tubing system ensures minimized clogging
- Auto-trace function to monitor the drift of electrodes during continuous tests
- Large size memory for 500 test results
- 2 level QC management, 31days QC data can be stored
- Integrated statistic analysis
- Automatic correlation with 2 level QC serum
- Integrated air-liquid-air-liquid rinsing mode to avoid carry over
- LIMS Integration facilitated

