ISE Electrolyte Analyzer, K Na Cl Ca pH TCO2, 25-40 s Analysis, 7-Inch Touch Screen

Model **MSEA-7-25-ASWISS,MSEA-7-25-BSWISS,MSEA-7-25-CSWISS,MSEA-7-25-DSWISS** | Brand **Master Science**





The ISE Electrolyte Analyzer measures electrolytes in serum, plasma, whole blood, cerebrospinal fluid and diluted urine using ion selective electrode (ISE) technology. Results are ready in 25 to 40 seconds from 60 to 300 µL of sample, depending on the number of items tested.

KEY HIGHLIGHTS

- Flexible Test Menu
- Fast Results
- Low Reagent Use
- Reliable Readings

AT A GLANCE

0.5-20.0 mmol/L / 0.01 mmol/L / ≤ 1.0% K+ RANGE / RESOLUTION / CV	**15-200 mmol/L / 0.1 mmol/L / ≤ 1.0%** NA+ RANGE / RESOLUTION / CV
0.1-6.0 mmol/L / 0.01 mmol/L / ≤ 1.0% CA2+ RANGE / RESOLUTION / CV	**0.1-5.0 mmol/L / 0.01 mmol/L / ≤ 2.0%** LI+ RANGE / RESOLUTION / CV

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

Four versions cover different test menus, from K, Na and Cl up to K, Na, Cl, iCa, nCa, TCa, pH, TCO2 and AG. The ISE Electrolyte Analyzer runs from a 7-inch color touch screen, prints on an internal thermal printer, stores up to 10,000 results with power-off protection and connects to a LIS through RS232.

Complete your clinical lab with our ELISA Microplate Reader with Monochromator alongside the ISE Electrolyte Analyzer.

Clinical labs testing electrolytes face the issues below. The ISE Electrolyte Analyzer deals with each one.

Key Benefits

Flexible Test Menu
Choose from four versions, from 3 basic electrolytes up to 9 items and 11 parameters.

Fast Results
Each analysis takes 25 to 40 seconds.

Low Reagent Use
The analyzer can be switched on and off at any time, so reagent is used only when needed.

Reliable Readings
Automatic potential tracking correction and bubble detection keep measurements stable.

Technical Specifications

UNDEFINED

Brand	Master Science
Model Number	MSEA-7-25-ASWISS,MSEA-7-25-BSWISS,MSEA-7-25-CSWISS,MSEA-7-25-DSWISS
SKU	MSEA-7-25-ASWISS,MSEA-7-25-BSWISS,MSEA-7-25-CSWISS,MSEA-7-25-DSWISS
Measuring Technology	Ion selective electrode (ISE)
Test Items, Version A	K, Na, Cl
Test Items, Version B	K, Na, Cl, TCO2
Test Items, Version C	K, Na, Cl, iCa, nCa, TCa, pH
Test Items, Version D	K, Na, Cl, iCa, nCa, TCa, pH, TCO2, AG
Sample Types	Serum, plasma, whole blood, cerebrospinal fluid, diluted urine
Sample Volume	60-300 µL (3 to 11 items)
Analysis Time	25-40 s
K+ Range / Resolution / CV	**0.5-20.0 mmol/L / 0.01 mmol/L / ≤ 1.0%**
Na+ Range / Resolution / CV	**15-200 mmol/L / 0.1 mmol/L / ≤ 1.0%**
Cl- Range / Resolution / CV	**15-200 mmol/L / 0.1 mmol/L / ≤ 1.0%**
Ca2+ Range / Resolution / CV	**0.1-6.0 mmol/L / 0.01 mmol/L / ≤ 1.0%**
Li+ Range / Resolution / CV	**0.1-5.0 mmol/L / 0.01 mmol/L / ≤ 2.0%**
pH Range / Resolution / CV	**4-9 / 0.01 / ≤ 0.5%**
TCO2 Range / Resolution / CV	**2.0-70.0 mmol/L / 0.1 mmol/L / ≤ 3.0%**
Display	7-inch color touch screen
Data Storage	Up to 10,000 test results
Printer	Internal thermal printer
Interface	RS232, LIS connection
Optional Auto Sampler	39 positions (5 emergency, 2 QC)
Power Supply	220 V ±20 V AC, 50-60 Hz, ≤ 120 W
Operating Conditions	15-40°C, ≤ 85% humidity
Dimensions	340 × 200 × 380 mm
Net Weight	6 kg

PROBLEMS THE ISE ELECTROLYTE ANALYZER SOLVES	
Slow turnaround for urgent electrolyte results	Analysis takes 25 to 40 seconds per sample.
Air bubbles cause false readings	Fine bubbles are detected and filtered automatically.
Reagent waste on idle analyzers	The unit can be switched on and off at any time.
Manual result transcription	Results print internally, store up to 10,000 sets and send to LIS via RS232.
Handling many sample types	Serum, plasma, whole blood, CSF and diluted urine are all accepted.

Applications

- **Routine K, Na and Cl testing in hospital laboratories**
- **Calcium, pH and TCO2 testing in clinical chemistry**
- **Electrolyte monitoring for patients on fluid replacement**
- **Emergency and ICU electrolyte checks**
- **Testing of cerebrospinal fluid and diluted urine**

Measurement

- Ion selective electrode technology
- Automatic potential tracking correction
- Automatic detection and filtering of fine air bubbles
- Automatic flushing after each analysis keeps electrodes ready

Sample Handling

- Serum, plasma, whole blood, CSF and diluted urine
- Four common sample cup types, including original test tubes
- Environmental reagent pack or traditional reagent bottles
- Optional auto sampler with 39 positions, original-tube sampling and barcode scanning

Data and Safety

- 7-inch color touch screen
- Internal thermal printer
- Up to 10,000 results stored with power-off protection
- RS232 LIS connection
- Waste liquid overflow alarm

Standard Accessories Included

- Electrolyte analyzer main unit (version A, B, C or D)
- Internal thermal printer

Optional Accessories

- Auto sampler, 39 positions (5 emergency, 2 QC), for sample cups or blood collection tubes
- Barcode scanning with original-tube sampling