Compact ISE Electrolyte Analyzer, K Na Cl Ca pH, 150 µL Sample, 40 s Analysis

Model **MSEA-5-40SWISS** | Brand **Master Science**





The Compact ISE Electrolyte Analyzer measures K, Na, Cl, iCa, nCa, TCa and pH with ion selective electrode (ISE) technology. It accepts serum, plasma, whole blood, cerebrospinal fluid and diluted urine, uses 150 µL of sample and gives results in 40 seconds.

KEY HIGHLIGHTS

- Two-Key Operation
- Seven Parameters per Run
- Stable Measurements
- Reagent Saving

AT A GLANCE

0.5-20.0 mmol/L / 0.01 mmol/L / ≤ 1.5% K+ RANGE / RESOLUTION / CV	**30-200 mmol/L / 0.1 mmol/L / ≤ 1.5%** NA+ RANGE / RESOLUTION / CV
20-200 mmol/L / 0.1 mmol/L / ≤ 1.5% CL- RANGE / RESOLUTION / CV	**0.2-5.0 mmol/L / 0.01 mmol/L / ≤ 2.0%** CA2+ 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

Operation is kept simple with only YES and NO keys and a concise menu. The Compact ISE Electrolyte Analyzer prints on an internal thermal printer, stores up to 10,000 results with power-off protection, connects to a LIS and flushes the electrodes automatically after each sample.

For a touch-screen model with an optional auto sampler, see our ISE Electrolyte Analyzer, a larger option beside the Compact ISE Electrolyte Analyzer.

Smaller labs testing electrolytes meet the issues below. The Compact ISE Electrolyte Analyzer addresses each one.

Key Benefits

Two-Key Operation
Only YES and NO keys and a short menu make training quick.

Seven Parameters per Run
K, Na, Cl, iCa, nCa, TCa and pH from one 150 µL sample.

Stable Measurements
Automatic potential tracking correction and bubble detection support consistent readings.

Reagent Saving
The analyzer can be switched on and off at any time as needed.

Technical Specifications

UNDEFINED

Brand	Master Science
Model Number	MSEA-5-40SWISS
SKU	MSEA-5-40SWISS
Measuring Technology	Ion selective electrode (ISE)
Test Items	K, Na, Cl, iCa, nCa, TCa, pH
Sample Types	Serum, plasma, whole blood, cerebrospinal fluid, diluted urine
Sample Volume	150 µL
Analysis Time	40 s
K+ Range / Resolution / CV	**0.5-20.0 mmol/L / 0.01 mmol/L / ≤ 1.5%**
Na+ Range / Resolution / CV	**30-200 mmol/L / 0.1 mmol/L / ≤ 1.5%**
Cl- Range / Resolution / CV	**20-200 mmol/L / 0.1 mmol/L / ≤ 1.5%**
Ca2+ Range / Resolution / CV	**0.2-5.0 mmol/L / 0.01 mmol/L / ≤ 2.0%**
pH Range / Resolution / CV	**4-9 / 0.01 / ≤ 0.5%**
Keypad	YES and NO keys
Data Storage	Up to 10,000 test results
Printer	Internal thermal printer
Connectivity	LIS connection
Operating Conditions	15-40°C, ≤ 85% humidity
Power Supply	220 V ±20 V AC, 50-60 Hz, ≤ 120 W
Dimensions	380 × 270 × 400 mm
Package Size (W × D × H)	510 × 420 × 580 mm
Net / Gross Weight	7 kg / 10.6 kg

PROBLEMS THE COMPACT ISE ELECTROLYTE ANALYZER SOLVES

Complex analyzers need long training	Two keys and a short menu run the whole test.
Air bubbles distort results	Fine bubbles are detected and filtered automatically.
Electrodes drying between samples	Automatic flushing keeps electrodes in good standby condition.

POWER

Lost results after power failure	Up to 10,000 results are kept with power-off protection.

Applications

- **Routine K, Na and Cl testing in clinics and small hospitals**
- **Ionized and total calcium testing**
- **Blood pH measurement**
- **Electrolyte checks for patients receiving fluid replacement**
- **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 electrode flushing after each analysis

Operation

- YES and NO keys with concise menu
- Switch on and off at any time
- Internal thermal printer

Data and Safety

- Up to 10,000 results stored with power-off protection
- LIS connection
- Waste liquid overflow alarm

Standard Accessories Included

- Electrolyte analyzer main unit
- Internal thermal printer

Optional Accessories

- No optional accessories are listed for this model; contact our team for compatible items.