Benchtop ISE Electrolyte Analyzer, K Na Cl Ca pH TCO2 AG, 25-40 s, Optional Auto Sampler

Model **MSEA-5-25-ASWISS,MSEA-5-25-BSWISS,MSEA-5-25-DSWISS** | Brand **Master Science**





The Benchtop ISE Electrolyte Analyzer uses ion selective electrode (ISE) technology to test electrolytes in serum, plasma, whole blood, cerebrospinal fluid and diluted urine. Each analysis takes 25 to 40 seconds and uses 60 to 300 µL of sample, depending on the number of items.

KEY HIGHLIGHTS

- Choose Your Menu
- Walk-Away Option
- Simple Keys
- Stable 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% CA RANGE / RESOLUTION / CV	**4-9 / 0.01 / ≤ 0.5%** PH RANGE / RESOLUTION / CV

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

support@themsci.com
www.themsci.com

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Overview

Three versions are offered: K, Na and Cl; K, Na, Cl, TCO2 and AG; and the full menu of K, Na, Cl, iCa, nCa, TCa, pH, TCO2 and AG. The Benchtop ISE Electrolyte Analyzer is run with YES and NO keys, prints internally, stores up to 10,000 results, links to a LIS through RS232 and accepts an optional 39-position auto sampler.

For a touch-screen version, see our ISE Electrolyte Analyzer, an alternative to the Benchtop ISE Electrolyte Analyzer.

Hospital labs running electrolyte panels face the issues below. The Benchtop ISE Electrolyte Analyzer answers each one.

Key Benefits

Choose Your Menu
Three versions range from 3 basic electrolytes to 9 items and 11 parameters.

Walk-Away Option
An optional 39-position auto sampler with cup detection feeds samples automatically.

Simple Keys
YES and NO keys with a concise menu make daily use easy.

Stable Readings
Automatic potential tracking correction and bubble filtering support reliable results.

Technical Specifications

UNDEFINED	
Brand	Master Science
Model Number	MSEA-5-25-ASWISS,MSEA-5-25-BSWISS,MSEA-5-25-DSWISS
SKU	MSEA-5-25-ASWISS,MSEA-5-25-BSWISS,MSEA-5-25-DSWISS
Measuring Technology	Ion selective electrode (ISE)
Test Items, Version A	K, Na, Cl
Test Items, Version B	K, Na, Cl, TCO2, AG
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%**
Ca Range / Resolution / CV	**0.1-6.0 mmol/L / 0.01 mmol/L / ≤ 1.0%**
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
Interface	RS232, LIS connection
Optional Auto Sampler	39 positions (5 emergency, 2 QC)
Operating Conditions	15-40°C, ≤ 85% humidity
Power Supply	220 V ±20 V AC, 50-60 Hz, ≤ 120 W
Dimensions	380 × 270 × 400 mm
Net Weight	7 kg

PROBLEMS THE BENCHTOP ISE ELECTROLYTE ANALYZER SOLVES	
Manual loading of every sample	The optional auto sampler holds 39 samples, including 5 emergency positions.
Separate tests for TCO2 and AG	Versions B and D include TCO2 and AG in the same run.
Air bubbles affecting results	Fine bubbles are detected and filtered automatically.
Hand-copied results	Results print internally and transfer to LIS via RS232.

Applications

- **Routine electrolyte panels in hospital laboratories**
- **TCO2 and anion gap testing**
- **Calcium and pH testing in clinical chemistry**
- **Electrolyte monitoring for fluid replacement patients**
- **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 analysis

Operation

- YES and NO keys with concise menu
- Simple calibration
- Switch on and off at any time
- Optional auto sampler with automatic cup-seeking detection

Data and Safety

- Internal thermal printer
- Up to 10,000 results with power-off protection
- RS232 LIS connection
- Waste liquid overflow alarm

Standard Accessories Included

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

Optional Accessories

- Auto sampler, 39 positions (5 emergency, 2 QC), with automatic cup-seeking detection