

balio

diagnostics



EX SERIES

Electrolyte analyzer



EX SERIES

Selective ion electrode analyzer

- + 3 different models
- + Manual and automatic calibration
- + Scalable analyzers
- + Maintenance-free electrodes
- + Complete and accurate traceability
- + Sample loader with positions for primary tubes

Calibration option

The EX range includes 3 analyzers designed to meet the needs of all laboratories. The Semi-Plus model allows for manual calibration, while the Auto-Basic and Auto-Plus models offer automatic calibration



Semi-Plus Model

Scalable Configurations

All electrode combinations are available upon request. The analyzer configuration can be upgraded by simply adding an electrode: Na, K, Cl, Ca, pH, Li. This allows laboratories to start with a basic configuration and adapt it over time according to their needs.



Auto-Basic Model

Result Accuracy

The integrated electronic board on each electrode enables immediate processing of analog signals without the risk of interference, ensuring excellent result accuracy.

A Unique Sample Loader

The sample loader offered by the Auto-Plus model has 40 positions, accepts pediatric, primary tubes, and cups, with sample volume detection. It is also equipped with an internal barcode reader.



Auto-Plus Model

EX SERIES

SEMIAUTOMATIC

AUTOMATIC

Plus



From 1 to 6 tests per day

Basic



From 6 to 50 tests per day

Plus



More than 50 tests per day



Memory



Reagent Pack
Semi Auto



Manual
Calibration



Cleaning Pack



Measurement time for
serum



Internal battery in
option



Touchscreen
graphical display



Na+



K+



Cl-



Ca++



Li+



pH

Scalable up to 5 electrodes simultaneously



Patient
identification



Integrated printer



Real-time clock



External keyboard connection



Intuitive menu



Intuitive menu



Memory



RS232 port & USB output

LIS
conection



Reagent Pack



Automatic calibration



Integrated
barcode reader



QC management
(Quality Control)



Sample loader

EX SERIES

TECHNICAL SPECIFICATIONS



Model	Semiautomatic Plus	Automatic	Automatic Plus
Samples per day usage	1 to 6	From 6	More than 50
Sample type	Serum, Plasma, Urine and other biological substances		
Manual sample load	From Syringe, Tube or capillary with intelligent positioning		
Automatic sample load with level detection	No	No	Up to 40 primary tubes / pediatric tubes and/or capillary
Sample volume	From 40µL for Na+ K+	From 40µL for Na+ K+	From 40µL for Na+ K+
Expandable, up to 5 electrolytes simultaneously	Yes	Yes	Yes
Electrodes ISE, digital, maintenance free	Yes	Yes	Yes
Measurement time for serum	Less than 60 seconds including rinse, 1 point calibration and printed report		
Throughput		60 samples per hour	
Patient identification, alphanumeric, up to 20 characters	Yes	Yes	Yes
Graphic display with touch screen	Yes	Yes	Yes
Consumables	Kit containing Calibrating, rinsing solutions	PACK containing Calibrating, rinsing solutions and waste container	
Calibration	Semi automatic, programmable & on demand	Automatic, programable and under demand	
USB Output	Yes	Yes	Yes
External barcode reader input	Yes	Yes	Yes
External keyboard input	Yes	Yes	Yes
Serial output (RS232)	Yes	Yes	Yes
Real time clock	Yes	Yes	Yes
Memory for samples results	1000	1000	1000
Built in thermal printer	Yes	Yes	Yes
Automatic calibration and rinsing	No	Yes	Yes
Fill port cleaning	Yes	Yes	Yes
Built in barcode reader	No	Optional	Optional
Electrolytes availables	Na+ K+ Cl- Ca ²⁺ Li+ pH	Na+ K+ Cl- Ca ²⁺ Li+ pH	Na+ K+ Cl- Ca ²⁺ Li+ pH
Langues	French, English, Spanish Optional	French, English, Spanish Optional	French; English, Spanish Optional
Internal battery			
Power supply, external 110/220 Volts input	15 VDC Output 37,5 W	15 VDC Output 37,5 W	15 VDC Output 37,5 W
Weight	4,5kg	5,5kg	6,5kg
Dimensions	H 24cm, W 16cm, D 18cm	H 24cm, W 16cm, D 18cm	H 24cm, W 16cm, D 18cm
QC feature, 3 levels including statistics	No	Yes	Yes
LIS connection	Yes	Yes	Yes

	Sodium	Potassium	Chloride	Calcium	Lithium
Measurement Range Serum - Blood	40-220 (mmol/L)	1-30 (mmol/L)	20-250 (mmol/L)	0,2-5 (mmol/L)	0,2-5 (mmol/L)
Measurement Range Urine	20-300 (mmol/L)	2-150 (mmol/L)	20-300 (mmol/L)	Non applicable	Non applicable
Resolution	0,1 (mmol/L)	0,01 (mmol/L)	0,1 (mmol/L)	0,01 (mmol/L)	0,01 (mmol/L)
Reproductibility	CV ≤ 1%	CV ≤ 1%	CV ≤ 1%		
Based on 20 tests Serum	SD ≤ 1,6	SD ≤ 0,08	SD ≤ 1,25	SD ≤ 0,05	SD ≤ 0,06
Based on 20 tests Urine	CV ≤ 10%	CV ≤ 5%	CV ≤ 5%	Non applicable	Non applicable