

balio

diagnostics



EX SERIES

A complete range of electrolyte analyzers.



EX SERIES

A complete range of electrolyte analyzers.

- + 3 different models
- + Automatic and Manual calibrations
- + Upgradable instruments
- + Maintenance free electrodes
- + Complete and accurate traceability
- + Autoloader with primary tubes positions

Calibration Choice

EX Series range includes 3 analyzers meeting the needs of each laboratory from small to medium ones. The semi-automatic model offers the manual calibration, and two automatic models offer automatic calibration.

Evolutive Instruments

Any combination of electrodes can be set up on demand. Indeed, it's possible to upgrade the configuration of the analyzer by adding any of these electrodes : Na, K, Cl, Ca, pH and Li. You can start with a basic configuration and make it evolutive !

Precision of the results

The electronic card integrated on the electrodes allows an immediate treatment of the analogical signals without any risk of interference which gives high precision results.

A unique autoloader

The autoloader associated to the auto plus model offers 40 positions, accepts primary, pediatric and capsule tubes and detects sample volume. It is also equipped with an internal barcode reader and an optional external one.



Semi Plus Model



Auto Basic Model



Auto Plus Model

EX SERIES

SEMIAUTOMATIC

AUTOMATIC


Plus



 10 to 20
Samples per day


Basic



 20 to 50
Samples per day

Plus



 more than 50
Samples per day

 Memory for samples results	 Reagent Kit	 Manual calibration	 Fill port cleaning	 Measurement time for Serum	 Internal Battery (optional)	 Graphic display with Touch Screen
Na⁺	K⁺	Cl⁻	Ca⁺⁺	Li⁺	pH	 Patient identification
Expandable, up to 5 electrolytes simultaneously						
 Built in thermal printer	 External barcode reader input	 Real time clock	 External keyboard input	 Quick Guide on-screen	 External computer input	 Serial output (Rs232) connection
LIS connection						



Reagent Pack



Automatic calibration



Built in barcode reader (optional)



QC feature



Autosampler

EX SERIES

TECHNICAL SPECIFICATIONS



	Suggested model according to the samples per day usage		
	10 to 20	20 to 50	more than 50
Model	Semiautomatic Plus	Automatic	Automatic Plus
Sample Type	Whole blood, 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 adult/pediatric tubes and/or cups
Sample volume	From 50 µL for Na+ K+	From 50 µL for Na+ K+	From 50 µL 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 & under demand	Automatic, programmable 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 ⁺⁺ Li ⁺ pH	Na ⁺ K ⁺ Cl ⁻ Ca ⁺⁺ Li ⁺ pH	Na ⁺ K ⁺ Cl ⁻ Ca ⁺⁺ Li ⁺ pH
Multilingual	Yes	Yes	Yes
Internal Battery	Optional	Optional	Optional
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	4,5 Kg	5,5 Kg	6,5 Kg
Dimensions	H 24 cm, W 16 cm , D 18 cm	H 24 cm, W 16 cm , D 18 cm	H 24 cm, W 16 cm , D 18 cm (w/o autosampler)
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