bolio diagnostics



EX SERIES

A complete range of electrolyte analyzers.



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- 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 more than 50 10 to 20 Samples per day Samples per day 1.000

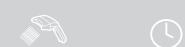


Ca++

Li+

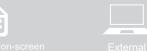
Na⁺

K+









рΗ

























EX SERIES

TECHNICAL SPECIFICATIONS



	Suggested model according to the samples per day usage						
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				
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	ng solutions and waste container				
Calibration	Semi Automatic, programable & under demand	le & under 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 ^{+ +} Li ⁺ pH	Na ⁺ K ⁺ Cl ⁻ Ca ^{+ +} Li ⁺ pH	Na ⁺ K ⁺ CI ⁻ 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 conection	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

