

**DIESTRO 103 AP**  
version 4 family

Electrolyte Analyzers

**DIESTRO 103 AP**  
version 4 family

**SPECIFICATIONS**

Samples per day usage	Suggested model according to the samples per day usage			
	1 to 10	10 to 20	20 to 50	more than 50
Model	Semiautomatic Basic	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	No	Up to 40 primary adult/pediatric tubes and/or cups
Sample volume	From 40 uL for Na+ K+	From 40 uL for Na+ K+	From 40 uL for Na+ K+	From 40 uL for Na+ K+
Expandable, up to 5 electrolytes simultaneously	Yes	Yes	Yes	Yes
Electrodes ISE, digital, maintenance free	Yes	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	Yes
Graphic display with Touch Screen	Yes	Yes	Yes	Yes
Consumables	Kit containing Calibrating, rinsing solutions		PACK containing Calibrating, rinsing solutions and waste container	
Calibration	Semi Automatic, programmable and under demand		Automatic, programmable and under demand	
USB Output	No	Yes	Yes	Yes
External barcode reader input	No	Yes	Yes	Yes
External keyboard input	No	Yes	Yes	Yes
Serial output (RS232)	No	Yes	Yes	Yes
Real time clock	No	Yes	Yes	Yes
Memory for samples results	1	1000	1000	1000
Quick Guide on-screen	No	Yes	Yes	Yes
Built in thermal printer	No	Yes	Yes	Yes
Automatic calibration and rinsing	No	No	Yes	Yes
Fill port cleaning	Yes	Yes	Yes	Yes
Built in barcode reader	No	No	Optional	Optional
Electrolytes availables	Na <sup>+</sup> K <sup>+</sup> Cl <sup>-</sup> Ca <sup>++</sup> Li <sup>+</sup>	Na <sup>+</sup> K <sup>+</sup> Cl <sup>-</sup> Ca <sup>++</sup> Li <sup>+</sup>	Na <sup>+</sup> K <sup>+</sup> Cl <sup>-</sup> Ca <sup>++</sup> Li <sup>+</sup>	Na <sup>+</sup> K <sup>+</sup> Cl <sup>-</sup> Ca <sup>++</sup> Li <sup>+</sup>
Multilingual	Yes	Yes	Yes	Yes
Internal Battery	Optional	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	15 VDC Output 37.5 W
Weight	0,8 Kgrs	0,8 Kgrs	0,8 Kgrs	1,3 Kgrs
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	H 24 cm, W 16 cm, D 18 cm (w/o autosampler)
QC feature, 3 levels including statistics	No	No	Yes	Yes
LIS connection	No	Yes	Yes	Yes

**Compact and Powerful**



**From Semiautomatic to full Automatic**

For users with low, medium or large number of samples

**Ion Selective Electrodes**

Digital and maintenance free

**Expandable up to 5 simultaneous electrodes**

At request in any combination

**Graphic display with touch screen**

**LIS connection**

**Quality control software**

**Own technology**



**TECHNICAL DATA SHEET**

	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]	Not applicable	Not applicable
Resolution	0,1 [mmol/L]	0,01 [mmol/L]	0,1 [mmol/L]	0,01 [mmol/L]	0,01 [mmol/L]
Reproducibility within runs of 20 serum	C.V. <=1% S.D. <=1,6	C.V. <=1% S.D. <=0,08	C.V. <=1% S.D. <=1,25	S.D. <=0,05	S.D. <=0,06
Reproducibility within runs of 20 urines	C.V. <=10%	C.V. <=5%	C.V. <=5%	Not applicable	Not applicable



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# DIESTRO 103 AP

version 4 family

Diestro 103AP is the top model of our electrolyte analyzer family. JS Medicina Electrónica was founded in 1991. We have facilities for research, development and production for Medical Devices and IVD products, placed strategically in the Mercosur. We are located close to the port of Buenos Aires and Ezeiza International Airport. Our products are manufactured under ISO 9001, 13485, GMP and CE marked. We have our own technology to develop and produce Analyzers, Software, Electrodes and consumables. Our staff includes first line professionals in all areas.

## SEMIAUTOMATIC



## AUTOMATIC



### SEMIAUTOMATIC

### AUTOMATIC

Basic

Plus

Basic

Plus



1 to 10  
Samples per day



10 to 20  
Samples per day



20 to 50  
Samples per day



more than 50  
Samples per day



Memory for sample result



Reagent Kit



Manual calibration



Fill port cleaning



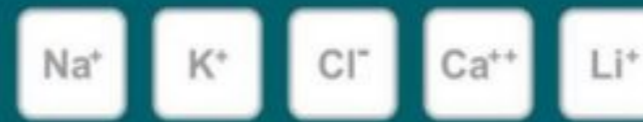
Measurement time for Serum < 60



Internal Battery (optional)



Graphic display with Touch Screen



Expandable, up to 5 electrolytes simultaneously



Patient identification



Built in thermal printer



External barcode reader input



Real time clock



External keyboard input



Quick Guide on-screen



USB Output



Memory for samples results



Serial output (Rs232)

LIS connection



Reagent Pack



Automatic calibration



Built in barcode reader (optional)



QC feature



Autosampler

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