

MiniHEM

**Portable
Hemoglobin
Analyzer**

*with
Auto calibration*



ANALYZER SPECIFICATION

Analyzer	MiniHEM 540	MiniHEM 523
MEASURED PARAMETERS		
Hemoglobin	Total blood hemoglobin concentration ctHb	Total blood hemoglobin concentration ctHb
Unit	g/l	g/l
Range	0-300 g/l	0-300 g/l
Photometry repeatability	± 0,5% (Cv)	± 0,5% (Cv)
Method of measurement	Photometry of hemoglobincyanid form on wavelength 540 nm	Photometry of the mixture of blood with weak ammonia solution on isobestyc wavelength 523 nm
Accuracy of method	2%	2%
OPERATING PARAMETERS		
Sample size	10µl	10µl
Sample type	Arterial or venous whole blood	Arterial or venous whole blood
Analysis time	20 minutes	< 5 seconds
Operating temperature	15-35 °C	15-35 °C
Storage temperature	5-50 °C	5-50 °C
Relative humidity	Up to 90% (non condensing)	Up to 90% (non condensing)
Photometer wavelength	540 nm	523 nm
Photometer bandwidth	10 nm	10 nm
Light source	Blow-Green light diode	Blow-Green light diode
Photometry cuvette	10 mm x 10 mm x 45 mm	10 mm x 10 mm x 45 mm
Blood solution volume	2,5 ml	1 ml
DIMENSIONS		
Width	178 mm	178
Height	33 mm	33 mm
Depth	127 mm	127 mm
Weight	300 g without batteries	300 g without batteries
ELECTRICAL REQUIREMENTS		
Batteries	3x1,5V Size AB (NT)	3x1,5V Size AB (NT)
Operating time with batteries	Up to 4 years without replacement	Up to 4 years without replacement
Power supply adapter (alternative)	50 Hz 220V AC / 5V DC 30 mA	50 Hz 220V AC / 5V DC 30 mA
QUALITY CONTROL		
Auto calibration	Yes	Yes
Hb Checker	Solid state glass filter	Solid state glass filter
Calibration and control solutions	Not necessary	Not necessary

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