

# MiniHEM

**Portable  
Hemoglobin  
Analyzer**

*With  
Auto calibration*



ANALYZER SPECIFICATION	ANALYZER MiniHEM 540	ANALYZER MiniHEM 523
<b>MEASURED PARAMETERS</b>		
<b>Hemoglobin</b> <b>Unit</b> <b>Range</b> <b>Photometrical repeatability</b> <b>Method of measurement</b>  <b>Photometrical accuracy</b>	<b>Total blood hemoglobin concentration ctHb</b> <b>g/l</b> <b>0-360 g/l</b> <b>± 0,5% (Cv)</b> <b>Photometry of hemiglobincyanid form solution at wavelength 540 nm</b>  <b>+1%</b>	<b>Total blood hemoglobin concentration ctHb</b> <b>g/l</b> <b>0-240 g/l</b> <b>± 0,5% (Cv)</b> <b>Photometry of the mixture of blood with weak ammonia solution at isobestic wavelength 523 nm</b>  <b>+1%</b>
<b>OPERATING PARAMETERS</b>		
<b>Blood volume</b> <b>Sample type</b> <b>Preparation time of solution</b> <b>Operating temperature</b> <b>Storage temperature</b> <b>Relative humidity</b> <b>Wavelength</b> <b>Bandwidth</b> <b>Light source</b> <b>Photometry cuvette</b> <b>Blood solution volume (minimum)</b>	<b>From 5 µl</b> <b>Arterial or venous whole blood</b> <b>20 minutes</b> <b>15-35 °C</b> <b>5-50 °C</b> <b>Up to 90% (non condensing)</b> <b>540 nm</b> <b>10 nm</b> <b>Blow Green light diode</b> <b>10 mm x 10 mm x 45 mm</b> <b>1 ml</b>	<b>From 10µl</b> <b>Arterial or venous whole blood</b> <b>&lt; 2 seconds</b> <b>15-35 °C</b> <b>5-50 °C</b> <b>Up to 90% (non condensing)</b> <b>523 nm</b> <b>50 nm</b> <b>Blow Green light diode</b> <b>10 mm x 10 mm x 45 mm</b> <b>1 ml</b>
<b>DIMENSIONS and WEIGHT</b>		
<b>Width x Depth x Height</b> <b>Weight</b>	<b>178 x 128 x 43 mm</b> <b>300 g without batteries</b>	<b>178 x 128 x 43 mm</b> <b>300 g without batteries</b>
<b>ELECTRICAL REQUIREMENTS</b>		
<b>Batteries</b> <b>Operating time with batteries</b> <b>Power supply adapter (alternative)</b>	<b>3x1,5V Size AA</b> <b>Up to 4 years without replacement</b> <b>50 Hz 220V AC / 5V DC 30 mA</b>	<b>3x1,5V Size AA</b> <b>Up to 4 years without replacement</b> <b>50 Hz 220V AC / 5V DC 30 mA</b>
<b>QUALITY CONTROL</b>		
<b>Auto calibration</b> <b>Checker</b> <b>Calibration and control solutions</b>	<b>Yes</b> <b>Solid state glass filter</b> <b>Not necessary</b>	<b>Yes</b> <b>Solid state glass filter</b> <b>Not necessary</b>

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