

DHT

Developing Health Technology

Hb523 HAEMOGLOBIN METER



Advanced portable electronic Haemoglobin Meter.
Independent of local power, supplies or services.

Ideally suited for - and used for many years in:

- Tropical countries and other remote areas
- Laboratories without auto blood analysers
- Testing blood donors
- Clinics - ***including:-***
 - GP and Specialist
 - Aviation Medicine
 - Mother & Baby
 - Sports Medicine
 - Animal, Avian and Aquatic Medicine

Features:

- Ready for immediate use with no calibration required by the user.
- Permanent glass reference standard for instrument performance/calibration check.
- Auto zeroing and switch to standby mode.
- No dedicated, expensive or environmentally hazardous consumables.
- Uses standard reusable 10 mm light path glass or plastic cuvettes.
- Uses readily available, stable and inexpensive haemolysing diluent, easily prepared by user.
- Simply inserting the cuvette activates meter and initiates reading of a test sample.
- Direct immediate 3 digit read-out on LCD display of haemoglobin in grams/ litre (g/l).
- Minimal operating costs and maintenance.
- Equal sensitivity to multiple forms of haemoglobin, including: HbO₂, Hi and Shb.
- Sealed unit with shutter to protect the cuvette aperture when not in use.
- Auto-sleep, state of art low power consumption space satellite technology.
- Surface mount electronics, coated for added protection from humidity, contamination and dirt.
- **5 year battery life/approximately 1 million tests** with long life AA size alkaline batteries supplied .
(Mains adaptor available as an optional extra.)

Link to Further Information:- www.haemoglobinometer.com

SPECIFICATIONS

Measured Parameters

Haemoglobin	Total haemoglobin concentration (Direct reading)
Unit	g/l
Range	20-300 g/l
Photometric repeatability	+/- 0.5% (Cv)
Method of measurement	Photometry of haemoglobin at wavelength 523 nm
Accuracy of method	2%

Operating Parameters

Sample size	20µl
Sample type	Capillary blood or anticoagulated venous blood
Blood solution test volume	2ml
Photometry cuvette	10mm x 10mm x 45 mm
Optical path length	10mm +/- 0.1mm
Analysis time	Less than 5 seconds
Light source	Green light emitting diode (LED)
Photometer wavelength	523 nm
Photometer bandwidth	10 nm
Operating temperature	15-35° C
Storage temperature	5-50° C
Relative humidity	Up to 80% @ 25° C (non condensing)

Dimensions

Width x Height x Depth	178mm x 43mm x 127mm
Weight	300g without batteries

Electrical Requirements

Batteries	3 x AA long life alkaline batteries (provided)
Operating time with batteries	about 5 years (or 1 million tests) without replacement
OPTIONAL	
Power supply (mains adaptor)	50 Hz 220-240V AC / 5V DC 30 mA (optional extra)

Quality Control

Calibration	Precalibrated/Automatic
Hb Standard /Checker	Solid state - Glass Control/Calibration checker - provided
Calibration /control solutions	Not required
Warranty	Two years

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