

NBM-200

Non-invasive Hemoglobin Testing

- **Reliable Anemia Screening**
Immediate Results
- **Environmentally Friendly**
No Disposables
- **Donor Comfort**
No Pain
No Blood
- **Increase in Donors Return**
Easy & Safe to Use
Infection Free
Hands Free
Clutter Free Table



The OrSense NBM 200 is a non-invasive monitor for spot testing of blood Hemoglobin (Hb) values. It consists of a reusable ring shaped sensor that is placed on the donor's finger, and a portable desktop monitor that displays the measurement results in less than 60 seconds. It may be used for anemia testing in clinical and non-clinical environments, blood & plasma collection centers, primary care, maternity and other physician's offices.

The technology combines a sensitive optical measurement with temporary blood-flow occlusion using a pneumatic finger sensor cuff. The occluded blood generates a unique and strong optical signal, enabling highly sensitive measurement of analytes.

The NBM 200 represents a breakthrough in non-invasive blood constituents measurements, while greatly improving donor comfort and safety, minimizing infection risks and providing accurate and immediate results at point of care.

OrSense's proprietary technology offers a unique breakthrough solution for Hemoglobin (Hb) testing at point-of-care, that is suited for use in a variety of clinical or non-clinical, fixed or mobile settings.

The FDA & CE approved technology has been used for testing millions of patients and blood donors in Europe, U.S., Latin America and Asia. It exhibits accuracy comparable to invasive point of care solutions while demonstrating clear superiority in safety, cost effectiveness and ease of use.

Performance

Hemoglobin (Hb):

Measurement range: 6-18 g/dL

Precision: 1 g/dL (Standard Deviation)

Resolution: 0.1 g/dL

Pulse Rate (PR):

Measurement range: 30-240 bpm

Precision: 3 bpm

Mode of Operation

Spot checking

Data Management

Data logger with real time and date

The measured Hb values are

automatically stored

Multilingual data interface

Electrical

Consumption (typical): 12 watts Input

Voltage range: 100-240 VAC, 50-60 Hz

Operates on mains power or 4 AA 1.5V

batteries, or an optional internal Li-ion

rechargeable battery (capable of continuous operation for up to 300 tests)

Type of Protection

Class 1 (on AC Power) Type BF applied part

Environmental

Operating temperature: 0-40 °C

Storage: -40÷70 °C

Humidity: 5%-95% non-condensing

Operating Altitude: -370m to 5486m

Protection

IP42 against drip and foreign bodies

Compliance With Standards:

IEC/EN 60601-1, CSA 601.1, IEC/EN

62304, MDD 93/42/EEC

EMC compliance:

IEC/EN 60601-1-2, Class B

Sensor Emitted Light

LED wavelength range: 600-940 nm.

Average radiated power: <1 mw

Calibration

Factory Calibrated over the full range of 6-18 g/dL of Hb

Physical Characteristics

Dimensions:

7.5 cm H x 22.5 cm W x 18 cm D

(3" x 10" x 9" x 7.1")

Weight: 1 kg (2.2 lb)

Please refer to the NBM 200 user manual for additional details.



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