NBM 200

Non-invasive Measurement of Hemoglobin

The Future of Hemoglobin Measurement!

Measurement!

The OrSense NBM 200 is a non-invasive device for the analysis of Hemoglobin (Hb), Pulse Rate and SpO2 values. It consists of a portable desktop monitor and a reusable ring shaped sensor that is placed on the patient's finger. Measurements take less than 60 seconds and require no blood sample, disposables or hazardous waste exposure. The NBM 200 may be used in hospitals, clinics and mobile environments for measuring hemoglobin and monitoring patient status.

The NBM 200 represents a breakthrough in non-invasive blood analysis; greatly improving patient comfort and safety while reducing needle stick and blood related risks; providing accurate and immediate results.

NBM 200 Benefits:

- Immediate & Reliable Measurements
- Easy & Safe to Use
- Increased Patient Comfort
- Environmentally Friendly
 No Disposables
 No biohazardous waste



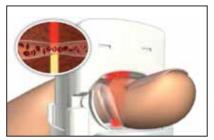
OrSense's proprietary technology

A breakthrough solution for the measurement of Hemoglobin (HB)

The NBM 200 pneumatic finger sensor cuff combines a sensitive optical measurement with temporary blood-flow occlusion. The occluded blood generates a unique and strong optical signal, enabling highly sensitive measurement results.

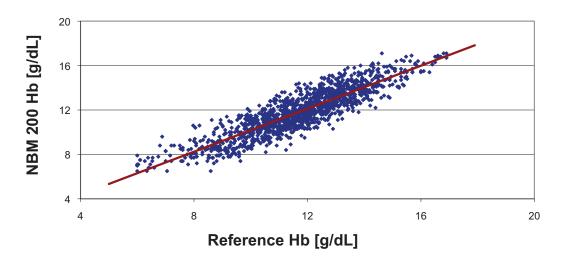






- Strong optical signal
- No interference from fingernail polish
 - Highly sensitive measurements

NBM 200 Hemoglobin measurements compared with reference measurements (Coulter LH750)



Data (n=1304), precision 0.96g/dL, correlation 0.89

NBM 200 Features & Specifications

Performance:

Hemoglobin (Hb)

Hb measurement range: 7-17 g/dL Precision: 1 g/dL (1 SD) Resolution: 0.1 g/dL

Pulse Rate (PR)

Range: 30-240 bPm Accuracy: 3 bPm

SpO₂

Range: 1-100% Accuracy: 3% for 70-100% Below 70% unspecified

Mode of Operation

Spot checking (optional periodic)

Data Management

Data logger with real time and date The measured Hb values are automatically stored

Electrical

Consumption (typical): 12 watts Input voltage range: 100-240 VAC, 50-60 Hz, 40 VA max.

Type of Protection

Class 1 (on AC Power) Type BF applied part

Operating temperature: 0-40°C

Environmental

(32-105°F) Storage: -20 - 70°C (-4 - 140°F) Humidity: 5%-95% non-condensing Operating Altitude: 1000 ft. to 18,000 ft.

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 range

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)

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