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
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)

![Graph showing correlation between NBM 200 and reference measurements](image)

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
- 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
- Weight: 1 kg (2.2 lb)

OrSense U.S., LLC
10900 World Trade Blvd.
Raleigh, NC 27617
Toll Free: 888-804-7377

FDA
US model only

Caution: Federal law restricts this device to sale by or on the order of a physician.
See Operators Manual for Cautions and Warnings, Indications, Usage instructions, Accuracy Specifications, Contraindications and troubleshooting instructions.