# **NBM 200**







respiratory system performance issues. Obtaining accurate Diffusion Capacity (DLco) values is affected on the DLco measurement. When DLco values are abnormal, it is imperative to know the levels of hemoglobin at the time of testing so an accurate interpretation of the DLco test results can be made.



In many pulmonary lab settings, immediate Hemoglobin measurements test results or no correction for Hemoglobin being made. The NBM 200 non-

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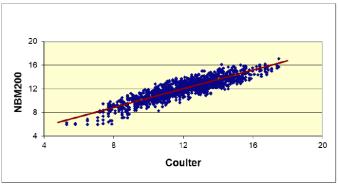
pulse and SpO2, which is perfectly suited for use in the pulmonary lab. The no blood draw, sharps or disposables. The NBM 200 greatly improves patient

# **NBM 200 BENEFITS**

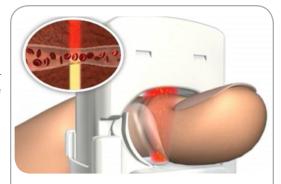
- o Immediate & reliable
- Easy & safe to use
- Increased patient
- Environmentally friendly
  - No disposables
  - O No biohazardous



OrSense's patented SpectOLight™ technology, known as Occlusion Spectroscopy, uses a non-invasive optical measurement platform combined with a finger attached ring-shaped sensor probe. The pressure applied by the sensor temporarily occludes the blood flow in the finger, creating new blood dynamics which generate a unique, strong optical signal, yielding a high signal-to-noise ratio which is wholly blood specific. Analysis of the signal provides the sensitivity necessary to measure hemoglobin, pulse-rate, oximetry (even under severe low perfusion levels), and other analyte concentrations.



Hematology patients data (n = 1396), precision 0.94 g/dL, correlation 0.89. Axes: NBM 200 Hb [g/dL] vs. Reference Hb [g/dL]



# A BREAKTHROUGH SOLUTION FOR THE MEASUREMENT OF HEMOGLOBIN (HB)

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

### **SPECIFICATIONS**

#### **PERFORMANCE**

#### HEMOGLOBIN

- Measurement range: 7-17 g/dL
- o Precision (1 SD): 1 g/dL
- Resolution: 0.1 g/dL

# PULSE RATE (PR)

- Measurement range: 30-240 bpm
- Accuracy: 3 bpm

## SPO2

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

# DATA MANAGEMENT

- Data logger with real time and date
- Measured values automatically stored
- Multilingual data interface

# ELECTRICAL

- Ocnsumption (typical): 12 watts input
- Voltage range: 100 240 VAC, 50-60 Hz 40 VA max.
- 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

O Class 1 (on AC Power) Type BF applied part

#### **ENVIRONMENTAL**

- Operating temperature: 0-40°C (32-104°F)
- Storage: -20-70°C (-4-158°F)
- Humidity: 5%-95% non-condensing
- Operating Altitude: -300m to 4572m (-1000-15,000 ft.)

## **PROTECTION**

IP42 against drip and foreign bodies

# COMPLIANCE WITH STANDARDS

- o IEC/EN 60601-1, CSA 601.1, IEC/EN 62304, MDD 93/42/EEC
- o EMC compliance: IEC/EN 60601-1-2, Class B

#### SENSOR EMITTED LIGHT

- LED wavelength range: 600-940 nm.
- Average radiated power: <1 mw</li>

# 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.)



DESIGNED, DEVELOPED AND MANUFACTURED BY:



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