



Nellcor™ Bedside Respiratory Patient Monitoring System PM1000N

Nellcor™ Bedside Respiratory Patient Monitoring System Features

Accuracy

Accurately assess patients' status with pulse oximetry measurements of $\pm 2\%$ for 70% to 100% saturation, and low saturation accuracy of $\pm 3\%$ for 60% to 80%.^{1,2}

Speed

Quickly react to changing patient status with technology that has been shown to respond and display changes in patient oxygenation and pulse rate more quickly than other technologies.^{1,2}

Motion Tolerance

Accurately assess patients' status during periods of movement or noise, avoiding dropouts or delays. Covidien is the 1st and only company to receive FDA clearance for a motion-tolerant pulse oximetry and compliance with ISO 80601-2-61.

Alarm Management

Distinguish between clinically significant desaturations and transient events with SatSeconds alarm management, and identify indications of repetitive reductions in airflow (RRiA) through an adult patient's upper airway and into the lungs with OxiMax™ Saturation Pattern Detection alert (SPD).

The Joint Commission, Anesthesia Patient Safety Foundation, American Society of Anesthesiologists and American Society of Pain Management recommend continuous monitoring of patients' oxygenation, respiration and ventilation, as a preventive measure and early alert to evolving respiratory compromise.

Proven Technology. State-of-the-art Design.

The Nellcor™ Bedside Respiratory Patient Monitoring System can help meet these recommendations by providing accurate, reliable, responsive readings of oxygen saturation, pulse rate, OxiMax™ SPD alert and optional respiration rate monitoring, so you may detect respiratory complications earlier and intervene sooner.

The standalone bedside monitor offers a flexible, contemporary design. Its modularity allows for on-site upgrades for new features and parameters, offering long-term functionality and flexibility. Its intuitive, easy-to-read, graphical user interface and color touchscreen provide easy access to the critical information. Real time and historical trend data provide a complete picture of patient status, allowing for informed treatment decisions.



Examples of PM1000N screen layouts

Features and Specifications

Performance

Measurement Range

SpO₂: 1% to 100%

Pulse rate: 20 to 250 beats per minute (bpm)

Pulse amplitude: 0.03% to 20%

Accuracy

Saturation

Adult: 70% to 100% ±2 digits

Adult and neonate low sat: 60 to 80% ±3 digits

Neonate: 70 to 100% ±2 digits

Low perfusion: 70 to 100% ±2 digits

Adult and neonate with motion: 70 to 100% ±3 digits

Pulse rate

Adult and neonate: 20 to 250 bpm ±3 digits

Low perfusion: 20 to 250 bpm ±3 digits

Adult and neonate with motion: 20 to 250 bpm ±5 digits

Electrical

Instrument

Power requirements: 80-263 VAC, 47/63 Hz, 30 VA power

Fuse rating: Slow blow 1.5A 250V

Battery

Type: Li-Ion

Battery capacity: 6 hours under nominal load conditions

Environmental

Operating Temperature

Instrument: 5°C to 40°C (41°F to 104°F)

Transport/Storage Temperature (in shipping carton):

-40°C to 70°C (-40°F to 160°F)

Operating Humidity

15% to 95% noncondensing

Operating Altitude

-304.8 m to 4572 m (-1000 ft to 15,000 ft)

Physical Characteristics

Weight

3.4kg (7.5 lbs)

Size

254 x 165 x 127 (mm)

10 x 6.5 x 5 (in)

Equipment Compliance

Standards Compliance

EN ISO 80601-2-61:2011

EN IEC 60601-1:2005

EN IEC 60601-1-2: 2007.03.01 3rd edition

EN IEC 60601-1-2: 2nd edition

IEC 60601-1-8: 2006 and EN 60601-1-8: 2007

EN IEC 60601-1-9: 2007

ISO 10993-1:2003

CAN/CSA C22.2 No. 60601-1:08

WEEE 2002/96/EC

RoHS directive 2011/65/EU

Equipment Classifications

Type of protection against electric shock:

Class 1 (internally powered)

Degree of protection against electric shock:

Type BF - Applied part

Mode of operation: Continuous

Electromagnetic compatibility:

IEC 60601-1-2:2007 3rd edition

Liquid ingress: IPX1

Degree of safety: Not suitable for use in the presence of flammable anesthetics

Output

Stores up to 48 hours of trend data readings that can be downloaded for analysis and archive

Capability to connect with the Vital Sync™ and Nellcor™ Oxinet III Central Monitoring Stations via wired/wireless Ethernet as well as wired serial port

Capability to connect to Philips Vuelink Module and Nurse Call via wired serial port

Capability to download trend data to PC

Display/Indicators

Pulse Amplitude Indicator (16 segments)

Plethysmographic waveform

Real time numbers

Real time trend data

Multiple alarm conditions

Up to 3 alarm conditions simultaneously

SatSeconds Alarm Management

OxiMax SPD Alert

Battery Charging

Clock

Event Marker

Histogram Display

Clinical Log

Neonatal Default Mode

Alarms

Audible and visual alarms for high/low saturation and pulse rate

SatSeconds Alarm Management settings: 10,25,50 and 100, or OFF

Saturation Pattern Detection sensitivity setting: 1,2,3 or OFF

Pulse Rate Delay settings: 5, 10 or OFF

Audible and visual warning indicators for low battery and sensor off

Audible and visual sensor disconnect alarms

Communication failure visual alarm

Backup audible alarm

Variable pitch beep tone for point-by-point changes in SpO₂

User configurable sensor alarm prioritization

Optional Accessories

GCX mounting adapter

Interface cable

1. Saraswat A, Simonato L, Dawson J, et al. Determining the best method of Nellcor pulse oximeter sensor application in neonates. *Acta Paediatr*. December 19, 2011.
2. O'Donnell CPF, Kamlin COF, Davis PG, Morley CJ. Obtaining pulse oximetry data in neonates: a randomized crossover study of sensor application techniques. *Arch Dis Child Fetal Neonatal Ed*. 2005;90:F84-F85.

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