

# MEDTRONIC COVIDIEN NELLCOR PM1000N



## ABOUT

The Medtronic Covidien Nellcor PM1000N is a bedside Respiratory Patient Monitoring system that offers **pulse oximetry** monitoring and cardiac-based technology. The PM1000N continuously monitors SpO2 and pulse rate in adult, pediatric, and neonatal patients. The monitoring system comes with a versatile, easy-to-use interface and touchscreen.

## FEATURES

- **Modular software, expandable parameters, and easy upgrades**, ensuring adaptability for different patient care needs.
- **State-of-the-art, lightweight, and versatile design**, making it easy to transport and suitable for various clinical environments.
- **Multiple connectivity options**, allowing seamless integration into existing hospital systems.
- **Nellcor respiration rate technology delivers Oxygen saturation (SpO2), Pulse Rate, and respiration rate through a single-finger sensor**, providing accurate and continuous monitoring with minimal patient discomfort.
- **Motion-tolerant pulse oximeter**, ensuring accurate readings even during patient movement.
- **Event markers for enhanced and fast documentation**, improving workflow and accuracy in patient records.



# SPECIFICATIONS



## DIMENSIONS

Height: 6.5" (16.5 cm)

Width: 10" (25.4 cm)

Depth: 5" (12.7 cm)

Weight: 7.5 lbs (3.4 kg)

## BATTERY

Type: Lithium-ion

Battery Capacity: 6 hours under nominal load conditions

Voltage: 7.2 Volts DC, 11.6 Ah, 83 Wh

Recharge Time: 8 hours with the monitoring system turned off and 12 hours with the monitoring system turned on

Shelf Life: Four months, if the monitoring system runs on a new, fully-charged battery; After four months of storage, units run 33% of the stated battery life

Compliance: IEC 62133

## NURSING CALL RELAY

Maximum Input Voltage: 30 VAC or VDC (polarity is not important)

Load Current: 120 mA continuous (peak 300 mA @ 100 ms)

Minimum Resistance: 26.5 ohms to 50.5 ohms (40.5 ohms typical) during alarms

Ground Reference: Isolated Ground

Electrical Isolation: 1500 Volts

## PERFORMANCE

SpO<sub>2</sub>: 1% to 100%

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

Pulse Amplitude: 0.03% to 20%

## ACCURACY

Adult - Neonate

Saturation: (% SpO<sub>2</sub> ± 1 SD)

Adult: 70% to 100% ± 2 digits

Neonate: 70% to 100% ± 3 digits

Low perfusion: 70% to 100% ± 2 digits

Pulse Rate: 20 to 250 bpm ± 3 digits

Low Perfusion: 20 to 250 bpm ± 3 digits

## POWER

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

Fuse rating: Slow blow 1.5A 250V

## OUTPUT

Capability to connect with the Nellcor Oxinet III central monitoring station via wired/wireless Ethernet as well as a wired serial port

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

Capability to download trend data to PC

# SPECIFICATIONS



## OPERATING RANGE AND DISSIPATION

Red Light Wavelength: Approximately 660 nm  
Infrared Light Wavelength: Approximately 900 nm  
Optical Output Power Less than 15 mW  
Power Dissipation: 52.5 mW

## ENVIRONMENTAL

### Operating

Temperature: 5 °C to 40 °C (41 °F to 104 °F)  
Altitude: -304.8 m to 4,572 m (-1,000 to 15,000 ft.)  
Atmospheric Pressure: 105 kPa to 57.2 kPa (31.0 in. Hg to 16.89 in. Hg)  
Relative Humidity: 15% to 95% non-condensing

### Transport and Storage

Temperature: -20 °C to 60 °C (-4 °F to 140 °F)  
Altitude: -390 m to 5,574 m (-1,254 ft. to 18,288 ft.)  
Atmospheric Pressure: 50 kPa to 106 kPa (14.7 in. Hg to 31.3 in. Hg)  
Relative Humidity: 15% to 95% non-condensing

## OPTIONAL ACCESSORIES

GCX mounting adapter interface cable

## PRODUCT COMPLIANCE

Equipment Classification: IEC/EN 80601-2-61:2011; IEC/EN 60601-1:2005; CAN/CSA C22.2 No. 60601-1:08; ANSI AAMI ES 60601-1:2005  
Protection Type: Class I (Internally powered)  
Degree of Protection: Type BF - applied part  
Mode of Operation: Continuous  
Electromagnetic Compatibility: IEC 60601-1-2:2007  
Liquid Ingress: IPX1: Protected against harmful effects of dripping water  
Degree of Safety: Not suitable for use in the presence of flammable anesthetics