



## Nellcor™ Portable SpO<sub>2</sub> Patient Monitoring System, PM10N

### Nellcor™ Portable SpO<sub>2</sub> Patient Monitoring System, PM10N Features

- Small, lightweight, ergonomic handheld monitor for continuous and spot-check pulse oximetry monitoring
- Supports a robust data set, including real-time SpO<sub>2</sub> and PR values, SatSeconds alarm management, pleth waveform, blip bar and tabular trend data
- Supports standard and home-care modes for use in hospital, hospital-type facilities, transport, mobile environments and home-care environments
- Sleep Study Mode, which enables the clinician to dim the LCD display and silence alarms to prevent disruption of patients' sleep
- Nellcor™ advanced signal processing technology delivers reliable operation even in difficult monitoring conditions
- LoSat expanded accuracy range (60% to 100% SpO<sub>2</sub>) when used with Nellcor™ adhesive sensors with OxiMax™ technology
- Compatible with the complete line of Nellcor™ single-patient-use, reusable and specialty sensors with OxiMax™ technology
- 80 hours of data storage capability
- Supports wired data export to an external personal computer for data analysis and printing functions

### The Nellcor™ Portable SpO<sub>2</sub> Patient Monitoring System effectively monitors a broad range of patients across care areas and provides connectivity and analytics for robust data analysis.

The Nellcor™ Portable SpO<sub>2</sub> Patient Monitoring System is a convenient, handheld monitor that is ideal for spot-checks or continuous monitoring in hospital, mobile and home use settings. The monitor incorporates Nellcor™ digital signal processing technology to deliver accurate, reliable SpO<sub>2</sub> and pulse rate values even during low perfusion and signal interference, including patient motion. The monitoring system includes a vivid 3-inch color LCD screen, connectivity to analytic tools and patient management systems, compatibility with the entire line of Nellcor™ sensors with OxiMax™ technology, and a robust monitoring feature set including SpO<sub>2</sub>, pulse rate, SatSeconds alarm management and pleth waveform information. The monitor has the added functionality of home-care mode and sleep study modes for simplified monitoring in the hospital and home settings. The Nellcor™ Portable SpO<sub>2</sub> Patient Monitoring System, part of the total solution for respiratory function monitoring from Covidien, provides clinicians with the must-have features in a handheld monitor at an economical price point.

### Nellcor™ Portable SpO<sub>2</sub> Patient Monitoring System, PM10N Accessories Ordering Numbers

Order Number	Description
PMAC10N-P	Portable SpO <sub>2</sub> Protective Cover (Pink)
PMAC10N-B	Portable SpO <sub>2</sub> Protective Cover (Blue)
PMAC10N-N	Portable SpO <sub>2</sub> Protective Cover (Navy)
PMAC10N-G	Portable SpO <sub>2</sub> Protective Cover (Green)
PMAC10N-T	Portable SpO <sub>2</sub> Transport Protective Cover
PMAC10N-CC	Portable SpO <sub>2</sub> Carrying Case

# Features and specifications

## Enclosure

Weight	274 g (0.604 lbs), including four batteries
Dimensions	70 mm W x 156 mm H x 32 mm D (2.76 in W x 6.14 in H x 1.26 in D)
<b>Display</b>	
Screen size	88.9 mm (3.5 in), measured diagonally
Screen type	TFT LCD, white LED backlight, viewing cone of 60° and optimal viewing distance of 1 meter
Resolution	320 x 480 pixels
<b>Alarms</b>	
Categories	Patient status and system status
Priorities	Low, medium and high
Notification	Audible and visual
Setting	Default, institutional and last setting
Alarm volume level	49 to 89 dB
Alarm system delay	<10s

## Range and Accuracy

Range Type	Range Values
<b>Measurement Ranges</b>	
SpO <sub>2</sub> saturation range	1% to 100%
Pulse rate range	20 to 250 beats per minute (bpm)
Perfusion range	0.03% to 20%
Display sweep speed	6.25 mm/sec
<b>Measurement Accuracy</b>	
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
<b>Pulse rate</b>	
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

Battery	Four new lithium batteries with 3,000 mAh will typically provide 20 hours of monitoring with no external communication, no audible alarm sound and at an ambient temperature of 25° C.
Type	Lithium AA
Voltage	1.5V x 4

## Environmental

	Transport and Storage	Operating Conditions
Temperature	-20 °C to 70 °C, (-4 °F to 158 °F)	5 °C to 40 °C (41 °F to 104 °F)
Altitude	-390 to 5,574 m, (-1,280 to 18,288 ft.)	-390 to 5,574 m (-1,280 to 18,288 ft.)
Relative humidity	15% to 95% non-condensing	

## Trends

Types	Tabular
Memory	Saves total 80 hours data events. Saves date and time, alarm conditions, pulse rate and SpO <sub>2</sub> measurements
Tabular format	One table for all parameters

## Standards Compliance

IEC 60601-1:2005+A1:2012, EN 60601-1:2006/AC:2010
IEC 60601-1:1998 + A1:1991 +A2:1995, EN 60601-1:1990 +A11:1993 +A12:1993 +A13:1996
IEC 60601-1-2:2007, EN60601-1-2:2007
IEC 60601-1-6:2010, EN 60601-1-6:2010 +A1:2013
IEC 60601-1-8:2006, EN 60601-1-8:2006 +A1:2012
IEC 60601-1-11:2010, EN 60601-1-11:2010
ISO 9919:2005, EN ISO 9919:2009
ISO 80601-2-61:2011, EN ISO 80601-2-61:2011
CAN/CSA C22.2 No. 601.1 M90
UL 60601-1: 1st edition
802.11 B/G/N WLAN connectivity

## Equipment Classifications

Type of protection against electric shock	Class I (internally powered)
Degree of protection against electric shock	Type BF - applied part
Mode of operation	Continuous
Electromagnetic compatibility	IEC 60601-1-2:2007
Ingress protection	IP22: Protected against foreign objects and moisture
Degree of safety	Not suitable for use in the presence of flammable anesthetics