CONVENIENT. PORTABLE. DESIGNED FOR ACCURACY.

Nellcor™ Portable SpO_2
Patient Monitoring System, PM10N

The Nellcor™ portable SpO_2 patient monitoring system, PM10N, effectively monitors a broad range of patients across care areas and provides connectivity and analytics for robust data analysis. The monitor incorporates digital signal processing technology and is engineered to offer accurate, reliable SpO_2 and pulse rate values — even in difficult conditions.

Small, lightweight, and ergonomic, this handheld monitor is useful for continuous and spot-check pulse oximetry monitoring. It supports:

- A data set that includes real-time SpO_2 and pulse rate values, Nellcor™ SatSeconds alarm management, pleth waveform information, blip bar, and tabular trend data
- Data storage capability of 80 hours
- Wired data export to an external personal computer for data analysis and printing
- Standard and home-care modes for use in the hospital, hospital-type facilities, transport, mobile environments, and home-care environments
- Sleep study mode that dims the LCD display and silences alarms to prevent disruption of patients' sleep

Engineered with key clinical features, the Nellcor™ pulse oximetry PM10N monitor offers:

- Advanced digital signal processing technology for reliable operation even during low perfusion and signal interference, including patient motion
- LoSat™ expanded accuracy feature for 60% to 100% SpO_2 accuracy when used with Nellcor™ pulse oximetry adhesive sensors with OxiMax™ technology
- Compatibility with the complete portfolio of Nellcor™ pulse oximetry sensors with OxiMax™ technology, including single-use, reusable, and specialty sensors
- Vivid 3-inch color LCD screen

RELIABLE RESULTS. ROBUST DATA.

The Nellcor™ portable SpO_2 patient monitoring system, PM10N, features an ergonomic shape and simple design that make it easy to use. Wherever you need SpO_2 measurements — even in difficult conditions — you can count on this pulse oximetry system to help meet the challenge.

ACCESSORIES

Nellcor™ Portable SpO_2 Patient Monitoring System, PM10N

Order Number	Description
PMAC10N-P	Protective cover —pink
PMAC10N-B	Protective cover — blue
PMAC10N-N	Protective cover — navy
PMAC10N-G	Protective cover — green
PMAC10N-T	Transport protective cover
PMAC10N-CC	Carrying case

Medtronic
Further, Together

FEATURES AND SPECIFICATIONS

Enclosure

Weight	274 g (0.604 lb), 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)
Display	
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
Alarms	
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 decibels
Alarm system delay	<10 seconds

Range and accuracy

Range Type	Range Values
Measurement Ranges	
SpO_2 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
Measurement 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

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	1.5 V 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% noncondensing	

Trends

Types	Tabular
Memory	Saves a total of 80 hours of data events; saves date and time, alarm conditions, pulse rate, and SpO_2 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

06/2018–18-PM-0079–[WF#2532628]

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