

# CONVENIENT. PORTABLE. DESIGNED FOR ACCURACY.

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



The Nellcor™ portable SpO<sub>2</sub> 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<sub>2</sub> 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<sub>2</sub> 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<sub>2</sub> 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<sub>2</sub> patient monitoring system, PM10N, features an ergonomic shape and simple design that make it easy to use. Wherever you need SpO<sub>2</sub> measurements — even in difficult conditions — you can count on this pulse oximetry system to help meet the challenge.

### ACCESSORIES

#### Nellcor™ Portable SpO<sub>2</sub> 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              |

# 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<br>(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 decibels   |
| Alarm system delay | <10 seconds   |

## 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>       |                                  |
| <b>Saturation</b>                 |                                  |
| 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 | 1.5 V x 4   |

## Environmental

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

## Trends

| Types          | Tabular  |
|----------------|--|
| Memory         | Saves a total of 80 hours of 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 |