

# NELLCOR® OXIMAX® **NPB-40** HANDHELD PULSE OXIMETER

CHOOSE THE HANDHELD THAT  
HANDLES YOUR CHALLENGES.

We added powerful *OxiMax*® technology to our most popular handheld oximeter to create the *OxiMax* NPB-40 Handheld Pulse Oximeter. This portable oximeter is effective with a broader range of patients, because it stands up to challenges such as patient motion, low perfusion or electrical interference that can hamper most other handhelds. Compatibility with our innovative *OxiMax* sensors, including the *MAX-FAST*® Forehead Sensor and *SoftCare*™ Nonadhesive Sensors, further expands its versatility.

The small and lightweight *OxiMax* NPB-40 Handheld Pulse Oximeter is convenient for use in physician offices or clinics, EMS/transport or in acute care settings. Its ergonomic shape and simple keypad make it easy to handle and operate. Wherever you need accurate, reliable SpO<sub>2</sub> measurements—count on the *OxiMax* NPB-40 Handheld Pulse Oximeter to meet the challenge.



#### CAPABLE AND CONVENIENT

- *OxiMax* technology performs even in challenging monitoring conditions.
- Compatible with complete line of *OxiMax* sensors.
- Audible and visible alarms.
- Bright blue, backlit display is easy to see, night or day.
- Long battery life: 19 or 40 hours depending on battery type.



## OXIMAX SENSORS—A SMART CHOICE

Nellcor's extensive family of single-patient-use, reusable and specialty *OxiMax* sensors lets you make the best choice for each patient. For example, the *OxiMax MAX-FAST* Forehead Sensor is a more effective monitoring option than finger sensors during low perfusion, because the forehead is not prone to vasoconstriction. The *MAX-FAST* sensor also offers an alternative when the hands are not accessible. *OxiMax SoftCare* Nonadhesive Sensors, which fit securely without adhesives, are a smart choice for patients with fragile skin, such as geriatric or burn patients.

### PATIENT ASSESSMENT TOOL

Sensor Event Report\* is a unique *OxiMax* feature that allows patient alarm events to be recorded within the *OxiMax* sensor while using the *OxiMax* NPB-40 Handheld Pulse Oximeter.

- As patients move to other areas of care, clinicians can view the alarm data from *OxiMax* standalone and multi-parameter monitors to quickly assess the frequency and severity of desaturation events.
- This feature is ideal for patients being transferred from EMS to hospital settings where *OxiMax* technology is used.

\*For privacy purposes, this feature is only available in single-patient-use *OxiMax* sensors.

## FEATURES AND SPECIFICATIONS

### DESCRIPTION

The *OxiMax* NPB-40 handheld pulse oximeter is intended for noninvasive measurement of functional oxygen saturation of arterial hemoglobin (SpO<sub>2</sub>). It can be used with adult, pediatric and neonatal patients and is compatible with the complete line of Nellcor *OxiMax* sensors. The monitor comes with four AA-size alkaline batteries and a reusable *OxiMax* sensor.

### PERFORMANCE

#### Display Range

SpO<sub>2</sub>: 0% – 100%  
Pulse rate: 20 – 250 bpm

#### Accuracy

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

Without motion: Adults 70% to 100% ± 2 digits  
Neonates 70% to 100% ± 3 digits

With motion: Adults/Neonates 70% to 100% ± 3 digits  
Low perfusion: 70% to 100% ± 2 digits

#### Pulse rate:

Without motion: 20 to 250 bpm ± 3 digits  
With motion: 20 to 250 bpm ± 5 digits  
Low perfusion: 20 to 250 bpm ± 3 digits

### POWER

#### Requirements

6 V supplied by four AA-size batteries

#### Battery Life

Alkaline: 19 hours (typical)  
Lithium: 40 hours (typical)

### ENVIRONMENTAL

#### Storage/Shipping Temperature

-4°F to 158°F  
(-20°C to 70°C)

#### Operating Temperature

41°F to 104°F  
(5°C to 40°C)

#### Operating Altitude

-1,254 ft to 9,882 ft  
(-382 m to 3,012 m)

#### Relative Humidity

15% to 95% noncondensing

### PHYSICAL CHARACTERISTICS

#### Size

2.8 x 6.2 x 1.4 (inches)  
(7.3 cm x 15.8 cm x 3.5 cm)

#### Weight (with batteries)

0.65 lb (0.29 kg)

#### Standards

EN60601-1-2: 2001 (CISPR 11, Class B)  
EN60601-1: 1990 (A1+A2)  
UL 60601-1, CAN/CSA C22.2 No. 601.1  
(Class: Internally Powered, Type BF)  
EN60601-1-8  
EN865

#### Displays

Oxygen saturation, pulse rate, vertical bar graph

#### Indicators

Pulse amplitude, pulse search, low battery, alarm silence, artifact, data in sensor, sensor disconnect, print

#### Optional Accessories

- Protective Boot (3 color options)
- Moisture-Resistant Jacket
- Carrying Case
- Citizen Portable Infrared Printer

Adult specifications are shown for the *OxiMax* MAX-A and MAX-N sensors with the *OxiMax* NPB-40 monitor. Neonate specifications are shown for MAX-N sensors with the *OxiMax* NPB-40 monitor. Saturation accuracy will vary by sensor type. Refer to Nellcor's Sensor Accuracy Grid Card for details. Refer to the *OxiMax* NPB-40 operator's manual for complete description, instructions, warnings, cautions and specifications. Specifications are subject to change without notice.



**tyco**  
Healthcare  
**Nellcor**

4280 Hacienda Drive  
Pleasanton, CA 94588  
Tel 925.463.4000  
Toll Free 1.800.635.5267  
www.nellcor.com

Tyco Healthcare UK LTD.  
154 Fareham Road  
Gosport, UK PO13 0AS  
Tel +44.1329.224000