



## Nellcor™ with OxiMax™ Technology Product Ordering Guide A Full Line of Oximetry Sensors and Monitors

### SPECIALTY SENSORS

#### Forehead SpO<sub>2</sub> Sensor

For patients with low perfusion; suitable for long-term monitoring

#### Forehead Sensor and Headband



Adult/Pediatric >10 kg

STERILE

CATALOG NO.

MAXFAST

CASE/24

▶ Sensors with low saturation expanded accuracy range.

### SPECIALTY SENSORS

#### Adult/Neonatal SpO<sub>2</sub> Sensor, Nonadhesive

For patients with fragile skin; suitable for long-term monitoring

#### Adult



Adult >40 kg

#### Neonatal



Neonatal 1.5-5 kg

#### Preemie



Preterm Infant <1.5 kg

STERILE

CATALOG NO.

SC-A

SC-NEO

SC-PR

CASE/24

## SINGLE-PATIENT-USE SENSORS

### Adhesive SpO<sub>2</sub> Sensors

Comfortable, form-fitting sensors; suitable for long-term monitoring

STERILE

|  | Adult   | Neonatal/Adult  | Infant   | Pediatric   | Adult   |
|--|---|---|--|---|---|
|  |  |  |  |  |  |
|  | Adult >30 kg  | Neonatal/Adult <3 kg or >40 kg  | Infant 3-20 kg   | Pediatric 10-50 kg  | Adult Nasal >50 kg  |

CATALOG NO.

MAXA/MAXAL\*

MAXN

MAXI

MAXP

MAXR

CASE/24

\*36" CABLE


▶ Sensors with low saturation expanded accuracy range.

## TWO-PIECE SENSORS

### SpO<sub>2</sub> Sensors

Single-patient-use adhesive bandage, reusable cable

STERILE

|  | Adult  | Neonatal/Adult   | Infant  | Pediatric  | Sensor Cable   |
|--|--|--|---|--|--|
|  |  |  |  |  |  |
|  | Adult >30 kg   | Neonatal/Adult <3 kg or >40 kg   | Infant 3-20 kg  | Pediatric 10-50 kg   | Sensor Cable 3'  |

CATALOG NO.

A

N

I

P

OC-3

CASE/24 SENSORS, 1/PKG CABLE

## REUSABLE SENSORS

### Reusable SpO<sub>2</sub> Sensors

Single-patient-use adhesive bandage, reusable cable

|  | Adult   | Neonatal/Adult with Wraps   | Pediatric/Infant with Wraps   |
|--|---|---|---|
|  |  |  |  |
|  | Adult >30 kg  | Adult/Neonatal <3 kg or >40 kg  | Pediatric/Infant 3-40 kg  |

CATALOG NO.

DS100A-1

OXI-A/N

OXI-P/I

CASE/24 SENSORS, 1/PKG CABLE

## REUSABLE SENSORS

### Reusable Multisite SpO<sub>2</sub> Sensors

Use with wraps or clip accessories

#### Multisite



Multisite >1 kg

#### Ear Clip



Use with SpO<sub>2</sub> sensor >30 kg

#### Pediatric Clip



Use with SpO<sub>2</sub> sensor 3-40 kg

#### Replacement Sleeves



CATALOG NO.

D-YS

D-YSE

D-YSPD

PDSLV

1/PKG SENSORS/CLIPS, 1 PAIR/SLEEVES

## REUSABLE SENSORS

### Reusable Sensor Wraps

For SpO<sub>2</sub> sensors with wraps and multisite, reusable SpO<sub>2</sub> sensors

#### Wrap



For OXI-P/I, OXI-A/N, D-YS

#### Adhesive Wraps



For OXI-A/N, D-YS



For OXI-P/I, D-YS

#### Foam Wraps



For OXI-A/N, D-YS



For OXI-P/I, D-YS

CATALOG NO.

POSEY

ADH-A/N

ADH-P/I

FOAM A/N

FOAM P/I

CASE/24 POSEY, 100/PKG OTHERS

## SENSOR EXTENSION CABLES

### Sensor Extension Cables

For compatibility with specific sensor/monitor models, contact your local Covidien representative or call 800-NELLCOR.

For Nellcor™ pulse oximeters with and without OxiMax™ technology



4' or 8' Sensor Extension Cable

For pulse oximeters without OxiMax technology



10' Patient Interface Cable

For Nellcor pulse oximeters with OxiMax technology only



CATALOG NO.

DEC-4/DEC-8

MC-10

DOC-10

1/PKG

For more information call 800-NELLCOR or visit [www.covidien.com](http://www.covidien.com).

# NELCOR™ N-600x PULSE OXIMETER WITH OXIMAX™ TECHNOLOGY ALARM MANAGEMENT SYSTEM†

## Features and Specifications

### PERFORMANCE

#### MEASUREMENT RANGE

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

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

Perfusion range: 0.03% to 20%

#### ACCURACY<sup>1</sup>

Saturation (% SpO<sub>2</sub> ± 1 SD)

70% to 100% ± 2 digits

60% to 80% ± 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

### ELECTRICAL

#### INSTRUMENT

Power requirements: 100 to 120 VAC,  
200 to 240 VAC, 50/60 Hz, 20 VA

Fuse rating: 0.5 Amperes

#### BATTERY

Type: Sealed lead-acid internal battery

Battery capacity: Typically 7 hours using new,  
fully charged battery

Charge time: 8-12 hours

### ENVIRONMENTAL

#### OPERATING TEMPERATURE

Instrument: 5°C to 40°C

Transport/storage temperature (in shipping carton):  
-20°C to 70°C

Operating humidity: 15% to 95% noncondensing

Operating altitude: -1,280 ft to 12,000 ft

### PHYSICAL CHARACTERISTICS

Weight: 5.7 lb (2.6 kg)

Size: 3.3 in H x 10.4 in W x 6.8 in D  
(8.4 cm x 26.4 cm x 17.3 cm)

### EQUIPMENT CLASSIFICATION

- IEC 60601-1
- ISO 9919
- CSA 601.1
- EN/IEC 60601-1-2 (2nd ed.)
- UL 2601-1
- IPX1
- EN865

### EMISSIONS COMPLIANCE

- EN55011, Group 1, Class B

### OUTPUT

- EIA-232 and RS-422 digital output from serial port
- Oxinet Communications Output Protocol
- Nurse call capability
- Analog output (0-1V); SpO<sub>2</sub>, pulse rate and plethysmographic waveform

### DISPLAYS/INDICATORS

- High-quality LCD graphical screen
- Visual indicators: Pulse search, audible alarms silenced or off, interference indicator, low battery and battery charging, battery fuel gauge, sensor off, sensor disconnect, data in sensor and SatSeconds alarm management clock

### ALARMS

- Audible and visual alarms for high/low saturation and pulse rate
- SatSeconds alarm management settings: 10, 25, 50, 100 or OFF
- Audible and visual warning indicators for low battery
- Audible sensor disconnect alarm and sensor off alarm
- Displayed saturation and pulse rate alarm limits
- Backup speaker with escalating alarm tones

### OPTIONAL ACCESSORIES

- GCX mounting options
- Interface cables
- Carrying cases



CATALOG NO. **N600x**

† Refer to the Nellcor™ N-600x pulse oximeter operator's manual for complete descriptions, instructions, warnings, cautions and specifications. Specifications are subject to change without notice.

# NELLCOR™ N-560 PULSE OXIMETER WITH OXIMAX™ TECHNOLOGY†

## Features and Specifications

### PERFORMANCE

#### MEASUREMENT RANGE

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

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

Perfusion range: 0.03% to 20%

#### ACCURACY<sup>1</sup>

Saturation (% SpO<sub>2</sub> ± 1 SD)

70% to 100% ± 2 digits

60% to 80% ± 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

### ELECTRICAL

#### INSTRUMENT

Power requirements: 100 to 240 VAC, 25 to 39 VA

Fuse rating: Qty 2, 2A, 250 volts, slow-blow IEC (5x20 mm)

#### BATTERY

Type: NiMH

Battery capacity: Minimum of 8 hours using new, fully charged battery with no alarms, no serial data

### ENVIRONMENTAL

#### OPERATING TEMPERATURE

Instrument: 10°C to 45°C

Transport/storage temperature (in shipping carton): -20°C to 70°C

Operating humidity: 15% to 95% noncondensing

Operating altitude: -1,280 ft to 18,288 ft

### PHYSICAL CHARACTERISTICS

Weight: 3.07 lb (1.39 kg)

Size: 2.95 H x 9.06 W x 5.04 D (inches)  
(7.5 cm x 23.0 cm x 12.8 cm)

### EQUIPMENT CLASSIFICATION

- IEC 60601-1
- ISO 9919:2005
- CSA 601.1
- EN/IEC 60601-1-2 (2nd ed.)
- UL 2601-1
- IPX1

### EMISSIONS COMPLIANCE

- EN55011, Group 1, Class B

### OUTPUT

- EIA-232 digital output from serial port
- OxiNet Communications Output Protocol
- Nurse call capability

### DISPLAYS/INDICATORS

- High-quality LED display changes from green to red during alarm conditions
- Pulse amplitude indicator (10-segment LED)
- Visual indicators: Pulse search, audible alarms silenced or off, interference indicator, battery charging, data in sensor and SatSeconds alarm management clock

### ALARMS

- Audible and visual alarms for high/low saturation and pulse rate
- SatSeconds Alarm Management settings: 10, 25, 50, 100 or OFF
- Audible and visual warning indicators for low battery and sensor off
- Audible sensor disconnect alarm

### OPTIONAL ACCESSORIES

- GCX mounting adapter
- Pole mount clamp
- Interface cables
- Visual alarm indicator antenna



CATALOG NO. **N560**

† Refer to the Nellcor™ N-560 pulse oximeter operator's manual for complete descriptions, instructions, warnings, cautions and specifications. Specifications are subject to change without notice.

# NELCOR™ N-65 HAND-HELD PULSE OXIMETER WITH OXIMAX™ TECHNOLOGY†

## Features and Specifications

### PERFORMANCE

#### DISPLAY RANGE

SpO<sub>2</sub>: 0% to 100%

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

#### ACCURACY<sup>†</sup>

Saturation (% SpO<sub>2</sub> ± 1 SD)

70% to 100% ± 2 digits

60% to 80% ± 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

#### 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 # del)

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

Relative humidity: 15% to 95% noncondensing

### PHYSICAL CHARACTERISTICS

Weight (with batteries): 0.65 lb (0.29 kg)

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

### 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, interference, data in sensor, sensor disconnect, print

### OPTIONAL ACCESSORIES

- Protective boot (3 color options)
- Moisture-resistant jacket
- Carrying case
- Citizen portable infrared printer



CATALOG NO. **N65**

† Refer to the Nellcor™ N-65 pulse oximeter operator's manual for complete descriptions, instructions, warnings, cautions and specifications. Specifications are subject to change without notice.

# NELLCOR™ N-85 HAND-HELD CAPNOGRAPH/PULSE OXIMETER WITH OXIMAX™ TECHNOLOGY†

## Features and Specifications

### PERFORMANCE

#### CAPNOGRAPH

Display range: 0 to 99 mm Hg  
(0-13.2 kPa and 0-13.0 vol% at sea level)

Sampling rate: 50 ± 7.5 mL/min

Warm-up time: 30 seconds typical, reaches steady-state accuracy 20 minutes after power up

Accuracy: 0 to 38 mm Hg ±2 mm Hg  
39 to 99 mm Hg ±5% of reading

Respiration rate: 0 to 150 breaths/minute

#### PULSE OXIMETER

Display range: SpO<sub>2</sub>: 0% to 100%

Pulse rate: 20 to 250 beats/minute

#### ACCURACY<sup>1</sup>

Saturation (% SpO<sub>2</sub> ± 1 SD)

70% to 100% ± 2 digits

60% to 80% ± 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

#### COMMUNICATION INTERFACE

RS-232 interface @ 9600 baud; full duplex serial interface via RJ-45 connector

#### ELECTRICAL

##### INSTRUMENT

Power requirements: AC input of 100 to 230 VAC @ 60/50 Hz

##### BATTERY

Type: Rechargeable NiMH

Battery capacity: Supplies power for 4 to 7 hours (depending on power management)

Fully recharges in approximately 4.5 hours

#### ENVIRONMENTAL

Operating temperature: 32°F to 113°F (0°C to 45°C)

Storage temperature: -31°F to 158°F (-35°C to 70°C)

Operating and storage:

Pressure: 430 mm Hg to 795 mm Hg

Altitude: -1,250 ft to 15,000 ft (-381 m to 4,572 m)

Humidity: 10% to 95% noncondensing

Shock test IEC 68-2-27

Sinusoidal vibration test IEC 68-2-6

Random vibration wide band test IEC 68-2-34

Drop test MIL-STD-810E, method 516.4-II

#### STANDARDS

- IEC 60601-1/EN 60601-1
- EN60601-1-2 second edition
- EN 864
- EN 865
- UL 2601-1
- EN 475
- EN 55011-Class B-Group 1
- CSA C22.2 No.601.1-M90

#### PHYSICAL CHARACTERISTICS

Weight: 1.87 lb (850 g)

Size: 8.11 in H x 3.46 in W x 2.06 in D  
(206 mm x 88 mm x 53 mm)

#### DISPLAYED PARAMETERS

CO<sub>2</sub> and plethysmographic waveforms, etCO<sub>2</sub>, SpO<sub>2</sub>, pulse rate, respiration rate, trend data

#### DISPLAY

Graphic LCD display (128 x 64 dots) with LED backlight (contrast and backlight control); two numeric fields, three digits each, using 7-segment LED; two-color LED alarm bar

#### ALARMS

Adjustable alarm limits for all parameters; audio level as defined in ISO 9703-2 standard

#### CO<sub>2</sub> ACCESSORIES

Nonintubated applications:

- Smart CapnoLine® and Smart CapnoLine® O<sub>2</sub> oral/nasal circuits
- CapnoLine® H and CapnoLine® H O<sub>2</sub> nasal circuits<sup>††</sup>
- NIV Line nasal circuit

Intubated applications:

- FilterLine® Set and FilterLine® H Set,<sup>††</sup> combination etCO<sub>2</sub> circuit and airway adapter

<sup>††</sup> H indicates for humidified applications; up to 72-hour duration

#### OTHER ACCESSORIES

- Carrying case
- Protective boot
- Pole mount clamp
- Digital to analog converter
- Communication adapter kits
- Calibration gas kit
- External battery charger
- Extra rechargeable battery pack
- Battery pack carrying pouch
- Nurse call and remote monitoring interface kits



CATALOG NO. **N85**

† Refer to the Nellcor™ N-85 pulse oximeter operator's manual for complete descriptions, instructions, warnings, cautions and specifications. Specifications are subject to change without notice.

## NELCOR™ OXIMAX™ NELL-1™ OEM PULSE OXIMETRY MODULE



## NELCOR™ OXINET™ III REMOTE RESPIRATORY MONITORING SYSTEM



For your OEM or Nellcor™ technology solutions, please contact your local Covidien sales representative at 800-NELLCOR.

1. Adult and neonate specifications are shown for the Nellcor™ MAX-A and MAX-N sensors with OxiMax™ technology. Saturation accuracy will vary by sensor type. Refer to Nellcor Sensor Accuracy Grid Card for details.

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