

THE NELLCOR® OXIMAX® N-85™ HANDHELD CAPNOGRAPH/PULSE OXIMETER

MICROSTREAM® CAPNOGRAPHY TEAMS UP
WITH OXIMAX PULSE OXIMETRY.

The Nellcor® *OxiMax*® N-85™ handheld capnograph/pulse oximeter combines two highly advanced technologies in a convenient, portable device. Microstream® capnography ensures accurate end-tidal CO₂ measurements and crisp waveforms, giving you a clear picture of your patient's respiratory status. The extensive selection of Microstream breath sampling accessories allows you to monitor intubated and nonintubated patients—including those receiving supplemental oxygen.

***OxiMax* Oximetry Advantage.** The *OxiMax* N-85 monitor delivers exceptional pulse oximetry performance even during low perfusion and signal interference. *OxiMax* specialty sensors—including the *MAX-FAST*® and *NeoMAX*™ forehead sensors and *SoftCare*® nonadhesive sensors—expand your patient care options.

For capnography monitoring only, Nellcor offers the *NPB-70* handheld capnograph.

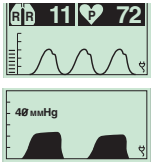


OxiMax N-85 Handheld
Capnograph/Pulse Oximeter



FOR PATIENT CARE ANYWHERE.

The *OxiMax* N-85 and *NPB-70* handheld monitors are convenient for spot checks and continuous monitoring in a variety of settings, including EMS/ED, transport, critical care, operating room, sleep lab and for procedural sedation.



TWO HANDHELD CHOICES

OxiMax N-85: ETCO_2 and SpO_2 (capnography/pulse oximetry)

NPB-70: ETCO_2 (capnography only)

- AC and battery operation
- Data output/printing
- User-adjustable alarms
- Four-language menu

MICROSTREAM CAPNOGRAPHY

The *OxiMax N-85* and *NPB-70* handheld monitors provide full-featured capnography with crisp waveform display and trend data.

- For mechanically ventilated and nonintubated patients.
- Low sample flow rate of 50 mL/min allows monitoring on the widest range of patients, from neonates to adults.
- Reliable CO_2 monitoring, even in high humidity environments.
- Innovative optical bench enhances stable, accurate measurements from a small sample.
- Wide selection of CO_2 sampling accessories available.

OXIMAX PULSE OXIMETRY

Equipped with Nellcor's advanced digital signal processing technology, the *N-85* stands up to difficult monitoring conditions, offering reliable SpO_2 and pulse rate measurements.

- Accurate monitoring even with weak pulse signals.
- A handheld monitoring alternative for use with the broad family of *OxiMax* sensors.
- Provides graphical trends and plethysmographic waveform.
- Interfaces with Nellcor *Oxinet® III* remote monitoring system.

FEATURES AND SPECIFICATIONS

PERFORMANCE

Capnography

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_2 : 0% to 100%

Pulse Rate: 20 to 250 beats/minute

Accuracy:

Saturation (% SpO_2 ± 1 SD):

Adults:

70% to 100% ± 2 digits

Neonates:

70% to 100% ± 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

N-85: 1.87 lb (850 g)

NPB-70: 1.66 lb (750 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

N-85: CO_2 and plethysmographic waveforms, ETCO_2 , SpO_2 , pulse rate, respiration rate, trend data. *NPB-70:* CO_2 waveforms and ETCO_2 , 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_2 Accessories

Nonintubated Applications:

Smart CapnoLine™ and Smart CapnoLine O_2
oral/nasal circuits

CapnoLine™ H and CapnoLine H O_2 nasal circuits*

NIV Line™ nasal circuit

Intubated Applications:

FilterLine® Set and FilterLine H Set*, combination

ETCO_2 circuit and airway adapter

* H indicates for humidified applications; up to 72-hour duration

Other Accessories

- Carrying case
- Protective boot
- Polemount 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

Refer to the *OxiMax N-85* and *NPB-70* operator manuals for complete description, instructions, warnings, cautions and specifications. Specifications 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