

THE NELLCOR® OxiMax® NPB-75 HANDHELD CAPNOGRAPH/PULSE OXIMETER

MICROSTREAM® CAPNOGRAPHY TEAMS UP
WITH OxiMax PULSE OXIMETRY.

The Nellcor® *OxiMax*® NPB-75 Handheld Capnograph/Pulse Oximeter delivers two highly advanced monitoring technologies in a convenient, portable monitor. Microstream® CO₂ technology ensures effective capnography monitoring for intubated and non-intubated patients alike. The extensive selection of Microstream breath sampling accessories assures accurate end-tidal CO₂ measurements and crisp waveforms, giving you a clear picture of your patient's respiratory status.

Now with *OxiMax* oximetry. The NPB-75 monitor contains Nellcor's latest *OxiMax* pulse oximetry technology. So you can expect exceptional performance, even when challenged with patient motion and weak pulses at the same time. And it's compatible with our growing family of *OxiMax* sensors, including the *MAX-FAST*™ Forehead Sensor and *SoftCare*™ Nonadhesive Sensors.

For capnography monitoring only, Nellcor offers the NPB-70 Handheld Capnograph.

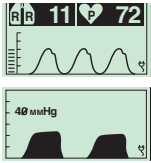


FOR PATIENT CARE ANYWHERE.

The NPB-75 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.



NPB-75 Handheld
Capnograph/Pulse Oximeter



TWO HANDHELD CHOICES

OxiMax NPB-75: EtCO_2 and SpO_2 (capnography/pulse oximetry)

NPB-70: EtCO_2 (capnography only)

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

MICROSTREAM CAPNOGRAPHY

The NPB-75 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 NPB-75 stands up to difficult monitoring challenges, offering reliable SpO_2 and pulse rate measurements.

- Accurate monitoring even with challenging combination of patient movement and weak pulse signals.
- A handheld monitoring alternative for use with the broad family of *OxiMax* sensors.
- Provides graphical trends and plethysmographic waveform.

For more information on the NPB-75 and NPB-70 handheld monitors, please visit www.nellcor.com.

To learn more about the *OxiMax* Pulse Oximetry System, please visit www.oximax.com.

FEATURES AND SPECIFICATIONS

PERFORMANCE

Capnography

Display Range: 0 to 99 mmHg (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 mmHg ± 2 mmHg
39 to 99 mmHg ± 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:

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: Normal physiologic range (e.g., 55 to 125 bpm) ± 5 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 between 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 mmHg to

795 mmHg

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

NPB-75: 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

NPB-75: 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, 3 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 O₂ oral/nasal circuits
CapnoLine™ H and CapnoLine H O₂ 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
- Clamp
- Digital to analog converter
- Communication adapter set
- Calibration gas kit
- External battery charger
- Extra rechargeable battery pack
- Battery pack carrying pouch

Refer to the NPB-75 and NPB-70 operator manuals for complete description, instructions, warnings, cautions and specifications. Specifications subject to change without notice. Microstream, Smart CapnoLine, CapnoLine, NIV Line and FilterLine are trademarks of Oridion Medical 1987 Ltd.



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