

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 delivers two highly advanced monitoring technologies in a convenient, portable monitor. Microstream® CO₂ technology ensures effective capnography monitoring for intubated and nonintubated 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.

***OxiMax* Oximetry Advantage.** The *OxiMax* N-85 monitor provides exceptional pulse oximetry performance, even during low perfusion and signal interference. Compatibility with our growing family of *OxiMax* sensors—including the *MAX-FAST*® forehead sensor and *SoftCare*® nonadhesive sensor—expand your monitoring options.

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

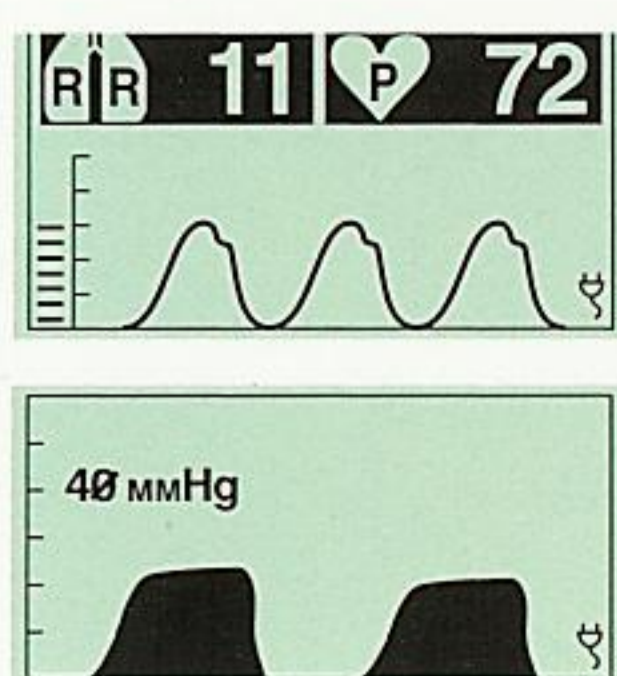


FOR PATIENT CARE ANYWHERE.

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.



OxiMax N-85 Handheld
Capnograph/Pulse Oximeter



TWO HANDHELD CHOICES

OxiMax N-85: ET_{CO}₂ and SpO₂ (capnography/pulse oximetry)

NPB-70: ET_{CO}₂ (capnography only)

- AC and battery operation
- User-adjustable alarms
- Data output/printing
- 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 CO₂ monitoring, even in high humidity environments.
- Innovative optical bench enhances stable, accurate measurements from a small sample.
- Wide selection of CO₂ 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 SpO₂ 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.

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 ₂ : 0% to 100% Pulse Rate: 20 to 250 beats/minute
Accuracy:	Saturation (% SpO ₂): ± 1 SD):
Low perfusion:	70% to 100% ± 2 digits
Pulse rate:	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: CO₂ and plethysmographic waveforms, ET_{CO}₂, SpO₂, pulse rate, respiration rate, trend data. *NPB-70*: CO₂ waveforms and ET_{CO}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

CO₂ 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 ET_{CO}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 *OxiMax N-85* and *NPB-70* operator manuals for complete description, instructions, warnings, cautions and specifications. Specifications subject to change without notice.



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