FOR PATIENT CARE ANYWHERE

The Nellcor N-85 hand-held monitor is 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.

MICROSTREAM[®]* CAPNOGRAPHY TEAMS UP WITH NELLCOR[™] PULSE OXIMETRY WITH OXIMAX TECHNOLOGY

Hand-Held Capnograph/Pulse Oximeter

The Nellcor N-85 hand-held capnograph/pulse oximeter with OxiMax technology combines two highly advanced technologies in a convenient, portable device. Microstream^{**} capnography helps ensure accurate end-tidal CO₂ measurements and crisp waveforms, giving you a clear picture of your patient's respiratory status.¹ The extensive selection of Microstream breath-sampling accessories allows you to monitor intubated and nonintubated patients-including those receiving supplemental oxygen.

• Nellcor Oximetry Advantage. The Nellcor N-85 monitor delivers exceptional pulse oximetry performance even during low perfusion and signal interference.² Nellcor[™] specialty sensors—including the forehead SpO₂ sensor and nonadhesive SpO₂ sensors—expand your patient care options.



Nellcor[™] N-85

with OxiMax[™] Technology







MICROSTREAM®* CAPNOGRAPHY

The Nellcor N-85 hand-held monitor with OxiMax technology provides 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.²
- Reliable CO₂ monitoring, even in high humidity environments.²
- Innovative optical bench enhances stable, accurate measurements from a small sample.²
- Wide selection of CO₂ sampling accessories available.

Nellcor[™] Pulse Oximetry

Equipped with Nellcor pulse oximetry advanced digital signal processing technology, the Nellcor N-85 hand-held monitor with OxiMax technology stands up to difficult monitoring conditions, offering reliable SpO₂ and pulse rate measurements.

- Accurate monitoring even with weak pulse signals.²
- A hand-held monitoring alternative for use with the family of Nellcor sensors.
- Provides graphical trends and plethysmographic waveform.
- Interfaces with the Nellcor[™] OxiNet III remote monitoring system.

THE HAND-HELD CHOICE

NellcorTM N-85 monitor with OxiMaxTM technology: EtCO₂ and SpO₂ (capnography/pulse oximetry) EtCO₂ (capnography only)

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

FEATURES AND SPECIFICATIONS

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 $\pm 5\%$ 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 \pm 1 S	D):
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 ba connector	ud; full duplex serial interface via RJ-45
ELECTRICAL	
Instrument	Power requirements: AC input of 100 to 230 VAC @ 60/50 Hz
Battery	
Туре:	Rechargeable NiMH
Battery Capacity:	Supplies power for 4 to 7 hours (de- pending 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	5
Sinusoidal vibration test IEC	68-2-6
Random vibration wide band	

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 N-85: 1.87 lb (850 g) NPB-Weight 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, EtCO₂, SpO₂, 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, Accessories Nonintubated Applications: Smart CapnoLine®* and Smart CapnoLine®* O2 oral/nasal circuits CapnoLine®* H⁺ and CapnoLine®* H⁺ O, nasal circuits NIV Line nasal circuit Intubated Applications: FilterLine®* Set and FilterLine®* H⁺ Set, combination EtCO, 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

References

 Maddox RR, Williams CK, Oglesby H, Butler B, Colclasure B. Clinical experience with patient-controlled analgesia using continuous respiratory monitoring and a smart infusion system. Am J Health Syst Pharm. 2006;63(2):157-164.

2. FDA 510(k)



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Extra rechargeable battery pack

Nurse call and remote monitoring interface kits

Battery pack carrying pouch