Microstream® capnography teams up with Nellcor™ pulse oximetry with OxiMax™ technology

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.
THE HAND-HELD CHOICE

Nellcor™ N-85 monitor with OxiMax™ 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

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
- Display Range: SpO₂: 0% to 100%
- Pulse Rate: 20 to 250 beats/minute
- Accuracy: Saturation (% SpO₂ ± 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

N-85: CO₂ and plethysmographic waveforms, EtCO₂, SpO₂, pulse rate, respiration rate, trend data.

CO₂ Accessories
- Nonintubated Applications:
  - Smart CapnoLine®** and Smart CapnoLine®** O₂ nasal/circuits
  - CapnoLine®** H' and CapnoLine®** H' O₂ nasal circuits
  - NIV Line nasal circuit

Intubated Applications:
- FilterLine®** Set and FilterLine®** H' Set, combination
- ETCO₂ 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

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, 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

REFERENCES

2. FDA 510(k)

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.
- 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.

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.
- 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.

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