

# 8500 Series

## *Handheld Pulse Oximeter*



### **Time-Tested Performance You Can Trust**

The 8500 handheld pulse oximeter provides an easy and accurate assessment of oxygen saturation and pulse rate from adults to neonates. Truly portable, this pocket-size handheld oximeter will hold up in the most demanding environments. With 100 hours of battery life, the 8500 provides a cost-effective, environmentally friendly solution for your monitoring needs. The 8500M memory version offers 18 hours of data storage.

# 8500 Series

## Product Highlights

- **Easy to Use** – 3-button operation and bright LED displays
- **Indication of Pulse Quality** – Tri-color perfusion indicator
- **Reliable** – Proven Nonin PureSAT® pulse oximetry technology
- **Choice** – Memory (18 hours) and non-memory versions
- **Outstanding Battery Life** – 100 hours
- **Durable** – Extremely rugged construction
- **Superior** – Three-year warranty

Be confident the 8500 Series will live up to its rugged and reliable reputation.

- Accuracy you can trust in most challenging conditions, such as motion and low perfusion
- Built to last in the most demanding environments (certified for aeromedical use by the USAF)
- Tricolor perfusion indicator provides immediate feedback to assess pulse quality

## Select Your Options

- nVISION® Data Management Software – Windows®-based software provides seamless transfer of stored data for further analysis, report generation and storage (8500M)
- Serial to USB adapter for data transfer (Standard FTDI or Continua™ compliant PHDC protocol options)



## Accessories

- Carrying Case – Maximizes portability
- Rubber Bumper – Provides additional protection
- Mounting Bracket – For wall or pole mount applications
- Stand – Increases flexibility of product positioning
- PureLight® Sensors – Available for a variety of placement sites
- PC Interface Cable – Download data (8500M)



### 8500 Series fits all of these sensors:

#### Finger Clip Sensors:

8000AA-1, 8000AA-3, 8000AP-1, 8000AP-3,

#### Soft Sensors:

8000SS, 8000SM, 8000SL

#### Flex Sensors:

8000J-1, 8000J-3, 8008J, 8001J

#### Ear Clip Sensors:

8000Q2

#### Forehead Sensors:

8000R, 8000H

#### Flexi-Form II Sensors:

7000A, 7000P, 7000I, 7000N, 6000A, 6000P, 6000I, 6000N

## Specifications

**Dimensions** ..... 8 cm (3") W x 15 cm (6") H x 2.5 cm (1") D

**Weight** ..... 280 g (10 oz) with alkaline batteries

**Memory (Optional)** ..... 18 hours

**Warranty** ..... 3 years

**Oxygen Saturation Display Range** ..... 0 – 100% SpO<sub>2</sub>

**Pulse Rate Display Range** ..... 18 – 321 beats per minute (BPM)

**Saturation Declared Accuracy (A<sub>ms</sub>)\*** ..... 70 – 100% SpO<sub>2</sub>

		Adults/Pediatrics	Neonates
No Motion:	Finger Clip	±2 digits	N/A
	Flex	±3 digits	N/A
Motion:	Finger Clip	±3 digits	N/A
	Flex	±3 digits	N/A
Low Perfusion:	Finger Clip	±3 digits	N/A
	Flex, Flexi-Form® II	±3 digits	±4 digits

#### Pulse Rate Declared Accuracy

No Motion ..... 18 – 300 BPM

Motion ..... 40 – 240 BPM

Low Perfusion ..... 40 – 240 BPM

		Adults/Pediatrics	Neonates
No Motion:	Finger Clip	±3 digits	N/A
	Flex, Flexi-Form II	±3 digits	±3 digits
Motion:	Finger Clip	±5 digits	N/A
	Flex	±3 digits	N/A
Low Perfusion:	Finger Clip	±3 digits	N/A
	Flex, Flexi-Form II	±3 digits	±3 digits

#### Measurement Wavelengths and Output Power\*\*

Red ..... 660 nanometers @ 0.8 mW maximum average

Infrared ..... 910 nanometers @ 1.2 mW maximum average

#### Indicators

Pulse Quality Display ..... LED, tricolor

Numeric Displays ..... 3-digit 7-segment LEDs, red

#### Temperature

Operating ..... -20 to +50°C (-4 to +122°F)

Storage/Transportation ..... -30 to +50°C (-22 to +122°F)

#### Humidity

Operating ..... 10 – 90% noncondensing

Storage/Transportation ..... 10 – 95% noncondensing

#### Altitude

Operating ..... Up to 12,000 meters (40,000 feet)

Hyperbaric Pressure ..... Up to 4 atmospheres

#### Power Requirements

Six 1.5V AA-size alkaline batteries.

100 hours maximum display brightness;

160 hours with normal brightness.

Classifications per IEC 60601-1 / CSA601.1 / UL60601-1

Type of Protection: ..... Internally powered (on battery power)

Degree of Protection: ..... Type BF-Applied Part

Mode of Operation: ..... Continuous

Enclosure Degree of Ingress Protection: ..... IPX2

\* ± 1 Arms represents approximately 68% of measurements

\*\*This information is especially useful for clinicians performing photodynamic therapy

Specifications are subject to change without notice.

Authorized Distributor:



888-970-2999