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)

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% SpO₂

**Pulse Rate Display Range**

- 18 – 321 beats per minute (BPM)

**Pulse Rate Declared Accuracy** (A,p)*

<table>
<thead>
<tr>
<th>Adults/Pediatrics</th>
<th>Neonates</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Motion</td>
<td>Finger Clip</td>
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**Saturation Declared Accuracy** (Arms)*

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</table>

**Measurement Wavelengths and Output Power**

- **Infrared**
  - Red: 660 nanometers @ 0.8 mW maximum average
  - InfraRed: 910 nanometers @ 1.2 mW maximum average

**Indicators**

| Pulse Quality Display | LED, tricolor |
| Number of 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) |
| Hypobaric Pressure | Up to 4 atmospheres |

**Power Requirements**

- 6 x 1.5V AA-size alkaline batteries
- 100 hours maximum display brightness; 160 hours with normal brightness

**Classifications**

- IEC 60601-1 / CSA601.1 / UL60601-1
- Type of Protection: Internally powered (on battery power)
- Mode of Operation: Continuous

**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
- Forehead Sensors:
  - 8000Q2
- Ear Clip Sensors:
  - 8000Q2
- Neonates

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Specifications are subject to change without notice.