PalmSAT® 2500 Series

Handheld Pulse Oximeter

Proven Performance in Real World Applications

PalmSAT® – the next generation in handheld pulse oximetry – small yet versatile digital pulse oximeters designed to accurately assess oxygen saturation and pulse rate. The compact size, ease of operation, exceptional battery life and choice of alarm or non-alarm versions make the PalmSAT 2500 Series ideal for your portable monitoring needs – regardless of the patient’s location.
PalmSAT® 2500 Series

Product Highlights

- **Choice** – Alarm and non-alarm versions
- **Simple** – Easy, two-button operation
- **Battery Life** – 2500: 80 hrs; 2500A: 60 hrs
- **Memory** – 72 hours of data storage
- **Flexible** – 4 AA batteries, rechargeable batteries or AC power with charger stand
- **Compact Size** – 7.5-oz unit for easy handling

Nonin has combined advanced technology and algorithms based on years of invaluable clinical experience to provide a wide range of functions. The functionality of the PalmSAT 2500 Series also makes it useful for an array of medical locations and applications:

- Hospitals
- Same-Day Surgery
- Pre- and Post-Op
- Emergency Services
- Procedure Rooms
- Transport
- Urgent Care
- Nursing Homes
- Sleep Studies – basic overnight
- Physicians Offices
- Dental and Oral Surgery

Nonin’s optional Windows®-based software package, nVISION®, permits the seamless transfer of all stored data from 72 hours of memory to a PC for further analysis, comprehensive report generation and storage.

1000USB Adapter & 1000USB-C (Continua Certified)

Nonin Medical’s 1000USB adapter enables fast and convenient download of secure data to a receiving device such as a personal computer, and a patient sensor for data collection and transfer.

### Accessories

Many options allow you to customize the PalmSAT 2500 Series to meet your application needs.

- PureLight® Sensors
- PalmSAT Charger Stand & NiMH Battery Pack
- nVISION Data Management Software
- PC Interface Cable
- Carrying Case

### Specifications

| Dimensions | 7.0 cm (2.8") W x 13.8 cm (5.4") H x 3.2 cm (1.3") D |
| Weight | 210 grams (7.4 oz) (with alkaline batteries) |
| Warranty | 3 years |
| Oxygen Saturation Display Range | 0 – 100% SpO₂ |
| Pulse Rate Display Range | 18 – 321 beats per minute (BPM) |
| Saturation Declared Accuracy (Aₚ₉₅)* | 70 – 100% |
| Pulse Rate Declared Accuracy | 18 – 300 BPM |
| No Motion | 40 – 240 BPM |
| Low Perfusion | 40 – 240 BPM |
| 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 Display 3-digit 7-segment LEDs, red |
| | Low Battery Indicator LED, amber |
| 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 0 – 12,000 meters (40,000 feet) |
| | Hyperbaric Pressure 0 – 4 atmospheres |

### Weight

- 2500 210 grams (7.4 oz) (with alkaline batteries)
- 2500A 213 grams (7.5 oz) (with alkaline batteries)

### Dimensions

- 7.0 cm (2.8") W x 13.8 cm (5.4") H x 3.2 cm (1.3") D

### Memory

- 2500: 80 hrs
- 2500A: 60 hrs

### Battery Life

- 210 grams (7.4 oz) (with alkaline batteries)
- 213 grams (7.5 oz) (with alkaline batteries)

### Pulse Rate Declared Accuracy

- 18 – 300 BPM
- 40 – 240 BPM
- 40 – 240 BPM

### 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 Display 3-digit 7-segment LEDs, red
- Low Battery Indicator LED, amber

### 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 0 – 12,000 meters (40,000 feet)
- Hyperbaric Pressure 0 – 4 atmospheres

### Power Requirements

- Four 1.5V AA-size alkaline batteries (2500: 80 hours typical operation; 2500A: 60 hours typical operation) or NiMH rechargeable battery pack (40 hours typical operation)

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

- Type of Protection: Internally powered (battery power)
- Type B-F 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.