

# Model 7500 Series

## *Tabletop Pulse Oximeter*



### **Easy to use. Economical. Reliable performance.**

Nonin's 7500 pulse oximeter has a unique low-profile design that enables it to fit easily on a tabletop or into its own carrying case. The stylish, compact 7500's simple functionality, minimum 16-hour battery life, 4-hour quick recharge, and minimum of 70 hours of memory makes it well-suited for a variety of clinical and homecare applications. Like all Nonin portable oximeters, the 7500 provides a wide range of display indicators that provide reliable readings.

The 7500's flexible alarm management options include patient security mode and a user-defined default that offers customizable patient settings. The 7500's analog output capability allows it to interface easily with other equipment.

A variety of single-use and reusable sensors are available for use with the Model 7500. Nonin Medical's PureLight® sensors produce accurate and dependable SpO<sub>2</sub> readings from patient-to-patient and sensor-to-sensor. Use only Nonin branded sensors.

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## Product Highlights

- **Convenient** – Lightweight, compact
- **Easy-To-Use** – Bright LED displays and large display screen offer clear readability
- **Durable** – Rugged design
- **Powerful** – Over 70 hours of memory available for extended monitoring
- **Versatile** – Monitors neonate to adult patients in acute care to homecare environments
- **Flexible** – Use as a stand alone device or interface with other equipment


## Magnetic Resonance (MR) Model 7500 FO


The 7500FO (fiberoptic) pulse oximeter was specifically developed for MR environments. Use in fixed-site or mobile MR facilities for monitoring infant, pediatric and adult patients.




## User-Friendly Interface

The 7500 provides a variety of display indicators that ensure reliable readings.

 **Pulse Strength Bar Graph** – Color coded bar graph assists in assessing the patient’s status. An audible tone sounds with each pulse. The pitch changes with the patient’s saturation level.

 **Pulse Quality Indicator** – Detects patient movement or signal quality changes that may require sensor site stabilization.

 **Sensor Fault Indicator** – Indicates when a sensor has become disconnected, misaligned, failed, or is incompatible with the monitor.

## Specifications

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

**Pulse Rate Range** ..... 18–321 BPM

### Displays

Pulse Strength ..... LED, Bar graph, tri-color segments

Alarm Indicator ..... LED, bi-color

Alarm Silenced ..... LED, amber

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

Low Battery ..... LED, amber

**Saturation Accuracy (A<sub>rms</sub>)<sup>a</sup>** ..... 70–100%

*Adults/Pediatrics Neonates*

No Motion: Reusable Finger Clip ..... ± 2 digits ± 3 digits

Disposable 6000 Series ..... ± 2 digits ± 3 digits

Motion: Reusable Finger Clip ..... ± 2 digits NA

### Pulse Rate Accuracy

No Motion: ..... 18–300 BPM

Motion: ..... 40–240 BPM

Low Perfusion: ..... 40–240 BPM

*Adults/Pediatrics Neonates*

No Motion: Reusable Finger Clip ..... ± 3 digits ± 3 digits

Disposable 6000 Series ..... ± 3 digits ± 3 digits

Motion: Reusable Finger Clip ..... ± 5 digits ± 5 digits

Low Perfusion: Reusable Finger Clip ..... ± 3 digits ± 3 digits

Disposable 6000 Series ..... ± 3 digits ± 3 digits

**Memory** ..... 70 hours (assuming continuous operation)

**Temperature** (Operating) ..... 0° to +40°C (32°F to 104°F)

(Storage/Transportation) ..... -30° C to +50°C (-22°F 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** (Mains) ..... 100–240 VAC 50–60 Hz

### Internal Power

Battery ..... 7.2 volt NiMH battery pack

Operating Life (fully charged battery) ..... 16 hours minimum

Storage Life ..... 21 days minimum

Recharge Rate ..... 4 hours maximum

**Dimensions** ..... Approximately 219 mm (8.6") W x

92 mm (3.6") H x 142 mm (5.6") D

**Weight** ..... Approximately 900 grams (2 lbs) with battery

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

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

**Type of Protection** ..... Class II (when on AC power with MPP30 battery charger), Internally powered (on battery power)

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

**Mode of Operation** ..... Continuous

**Enclosure Degree of Ingress Protection** ..... IPX2

### Analog Outputs

SpO<sub>2</sub> Output Range ..... 0-1 VDC (0–100% SpO<sub>2</sub>), 1.27 VDC (out of track)

Pulse Rate Output Range ..... 0-1 VDC (0–300 BPM), 1.27 VDC (out of track)

Event Marker ..... 0 V (no event), 1 V (event occurred)

Accuracy ..... ± 2% (SpO<sub>2</sub>), ± 5% (Pulse Rate)

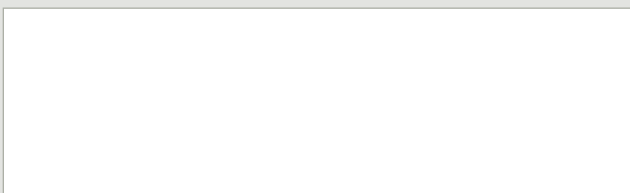
Load Current ..... 2 mA maximum

Specifications are subject to change without notice.

<sup>a</sup> ± 1 A<sub>rms</sub> represents approximately 68% of measurements

Quality systems certified to ISO 13485, and CE per Annex II of EC Directive No. 93/42/EEC as amended by 2007/47/EC.

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