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_2 readings from patient-to-patient and sensor-to-sensor. Use only Nonin branded sensors.

NONIN

Leaders in **Nonin**vasive Medical Monitoring

Model 7500 Series

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_2
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_{rms})[a] 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 ....1 year

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_2 Output Range...0-1 VDC (0–100% SpO_2), 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_2), ± 5% (Pulse Rate)
    Load Current...2 mA maximum

Specifications are subject to change without notice.

[a] ± 1 A_{rms} 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.