MightySat™ Rx Fingertip Pulse Oximeter

Featuring Masimo SET® Measure-through Motion and Low Perfusion™ Pulse Oximetry

Pulse Oximetry

- SpO2 — Oxygen Saturation*
- PR — Pulse Rate*
- Pi — Perfusion Index
- PVi® — Pleth Variability Index
- RRp® — Respiration Rate from the Pleth

* Masimo SET® Measure-through Motion technology includes SpO2 and PR.

Masimo

Masimo SET®: The Choice of Leading Hospitals Worldwide

> **Masimo SET®** overcomes the challenges of low perfusion and motion artifact that limit conventional pulse oximetry.

> **Masimo SET®** pulse oximetry helps clinicians monitor more than 100 million patients a year.[1]

Respiration Rate from the Pleth (RRp)

> **RRp** may be used to measure respiration rate in the clinic, during emergency medical services, and at home.

> **RRp** provides a wide measurement range of 4 to 70 breaths per minute.

Designed for Performance

High Resolution Display
- Rotating and adjustable color screen for real-time display of all measurements

Plethysmographic Waveform
- Provides high-resolution display of the patient's pleth waveform

Touchpad
- Provides easy access to settings and device features

Durable, Lightweight Design
- For use in clinical and home-care environments

Signal I.Q.® (SIQ™)
- An indicator of the SpO2 measurement confidence

Flexible Pad
- Easily conforms to finger shape for enhanced comfort
- Enables secure application to finger to minimize external interference

Free Downloadable Masimo Professional Health App[2]

Display parameter data on a compatible smart device with Bluetooth® LE enabled models. Measurements can also integrate into Apple's Health app.[3]

VIEW measurements on a compatible smart device[2]

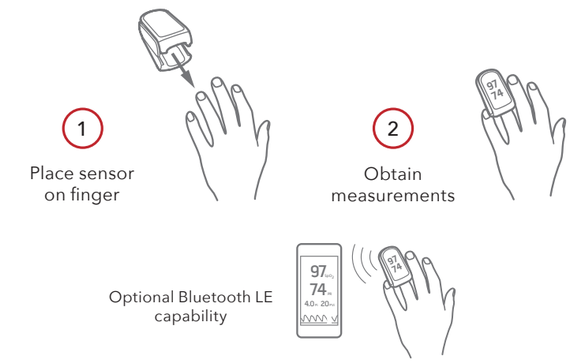
TREND measurements over time, view graphically

SHARE captured data via email

Comparison at a Glance

	Masimo MightySat Rx	Nonin® Onyx® II 9560
Key Product Features		
Parameters: SpO2 and PR featuring Masimo Signal Extraction Technology® (SET®)	✓	No
Parameter: Perfusion Index (Pi)	✓	No
Parameter: Respiration Rate (RRp)	✓	No
Parameter: Pleth Variability Index (PVi)	✓	No
Pleth Waveform	✓	No
Rotating and adjustable color screen for real-time display of all measurements	✓	No
App includes: high-resolution pleth waveform, smart tone audible feature, and trending functionality	✓	No
Customizable settings with use of touchpad	✓	No

Results in Two Easy Steps



Kit includes: MightySat Rx device, lanyard, batteries, and carrying case

Unique Parameters and Indicators

Signal I.Q. (SIQ)

Located under the plethysmographic waveform. The height of the vertical line provides an assessment of the confidence in the SpO2 value displayed.

Plethysmographic (Pleth) Waveform

Real-time graphical representation of changes in volume of arterial blood with each pulse.

Perfusion Index (Pi)

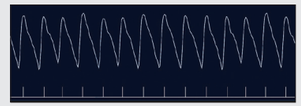
The ratio of the pulsatile blood flow to the non-pulsatile blood in peripheral tissue used to measure peripheral perfusion.

Pleth Variability Index (PVi)

A measure of the dynamic changes in the perfusion index (Pi) that occur during the respiratory cycle.

Respiration Rate from the Pleth (RRp)

A measure of respiration rate based on changes in the plethysmographic waveform. The unit of measure is respirations per minute (RPM).



High resolution view of the pleth waveform when viewed on a smart device.

MightySat Rx Models

	MightySat Rx P/N 9709	MightySat Rx with Bluetooth LE P/N 9809	MightySat Rx with Bluetooth LE, RRp & PVi P/N 9909 P/N 9942	MightySat Rx with PVi & RRp P/N 9941
Masimo SET® Measure-through Motion and Low Perfusion Technology	●	●	●	●
Measurements SpO2 (Oxygen Saturation)	●	●	●	●
PR (Pulse Rate)	●	●	●	●
Pi (Perfusion Index)	●	●	●	●
RRp (Respiration Rate)			●	●
PVi (Pleth Variability Index)			●	●
Display Pleth Waveform	●	●	●	●
150-Degree Viewing Angle	●	●	●	●
Rotational Screen	●	●	●	●
Bluetooth LE		●	●	
Compatible with Masimo Professional Health App[2]		●	●	
Four Year Limited Warranty	●	●	●	●
Device Color Available	□	□	□ P/N 9909 ■ P/N 9942	■

MightySat Rx Specifications

DISPLAY RANGE

- Functional Oxygen Saturation (SpO2): 0–100%
- Pulse Rate (PR): 25–240 bpm
- Perfusion Index (Pi): 0.02–20%
- Respiration Rate (RRp): 4–70 rpm
- Pleth Variability Index (PVi): 0–100%

ACCURACY - (ARMS)[4]

- Oxygen Saturation (%SpO2) Accuracy Range: 70–100%
  - No Motion: 2%
  - Motion: 3%
  - Low Perfusion: 2%
- Pulse Rate (PR) Accuracy Range: 25–240 bpm
  - No Motion: 3 bpm
  - Motion: 5 bpm
  - Low Perfusion: 3 bpm
- Respiration Rate (RRp) Accuracy Range[5]: 4–70 rpm
  - RRp: 3 rpm
  - RRp Mean Error*: ± 1 rpm

PATIENT WEIGHT

- Adult and Pediatric Patients: >30 kg (66 lbs)

MEASUREMENT RESOLUTION

- Oxygen Saturation (%SpO2): 1%
- Pulse Rate (PR): 1 bpm
- Pleth Variability Index (PVi): 1%
- Respiration Rate (RRp): 1 rpm

ENVIRONMENTAL

- Operating Temperature: 5 to 40° C (41 to 104° F)
- Storage Temperature: -40 to 70° C (-40 to 158° F)
- Operating Humidity: 10 to 95%, non-condensing
- Atmospheric Pressure: 540 to 1060 mBar

PHYSICAL CHARACTERISTICS

- Weight with Battery[6]: 73 g (0.16 lbs)
- Dimensions: 7.4 cm x 4.1 cm x 3.0 cm (2.9" x 1.6" x 1.2")

ALARMS

- No alarms on this product

CLASSIFICATION PER IEC 60601-1

- EMC Classification: Class B
- Degree of Protection: Type BF-Applied Part
- Enclosure Degree of Ingress Protection: IP23
- Mode of Operation: Continuous Operation

COMPLIANCE

- Safety: UL 60601-1, CSA C22.2 No. 601.1, IEC 60601-1, EN 60601-1
- EMC: EN 60601-1-2, Class B
- Pulse Oximeter: ISO 80601-2-61
- Conformity to EU MDD 93/42/EEC: CE Marked

BATTERY

- Operating: Two 1.5 Volt AAA Batteries
- Battery: Approximately 1800 spot-checks[7]

COMMUNICATION

- Radio Modes: Bluetooth LE
- Communication Compliance
  - Canada: IC: 7362A-MSAT01A
    RSS-210
  - Europe: EN 300 328
    EN 302 489-17

[1] Estimate: Masimo data on file. [2] The app is downloadable from the App Store® for iOS devices or Google Play™ store for select Android™ devices. For an up-to-date list of compatible smart devices, see: www.masimo.com/professional-health/ [3] Apple is a registered trademark of Apple Inc. registered in the U.S. and other countries. [4] ARMS accuracy is a statistical calculation of the difference between device measurements and reference measurements. Approximately two-thirds of the device measurements fell within ± ARMS of the reference measurements in a controlled study. [5] RRp performance was validated across the entire range of 4-70 rpm through bench testing. [6] Weight is dependent on batteries used. [7] Based upon 15 hours of operation with screen brightness set to 50% and a spot-check of 30 seconds.
* RRp accuracy is presented with ARMS and mean error.

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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