

# MightySat™ Rx Fingertip Pulse Oximeter

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

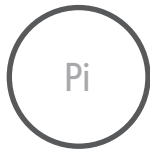
## Pulse Oximetry



Oxygen Saturation\*



Pulse Rate\*



Perfusion Index



Pleth Variability Index



Respiration Rate from the Pleth



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

## 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.<sup>1</sup>

### 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

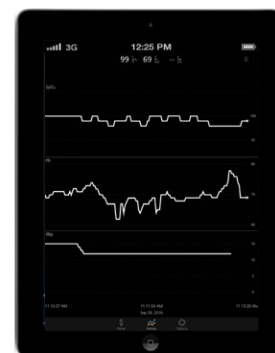
- Easily conforms to finger shape for enhanced comfort
- Enables secure application to finger to minimize external interference

### Free Downloadable Masimo Professional Health App<sup>2</sup>

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



**VIEW** measurements on a compatible smart device<sup>2</sup>



**TREND** measurements over time, view graphically

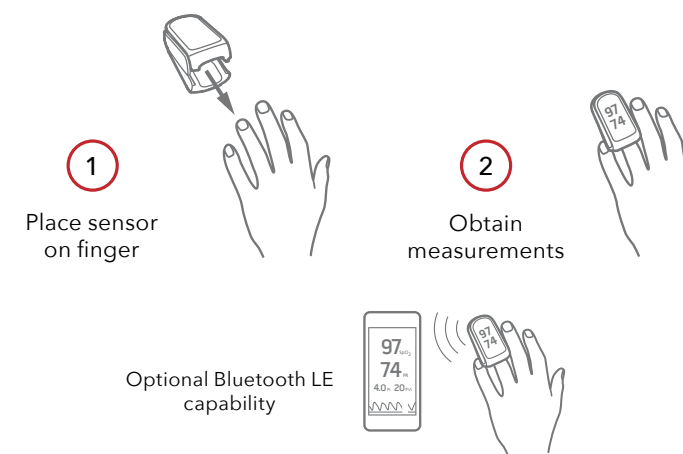


**SHARE** captured data via email

## Comparison at a Glance

	Masimo MightySat Rx	Nonin® Onyx® II 9560
<b>Key Product Features</b>		
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)

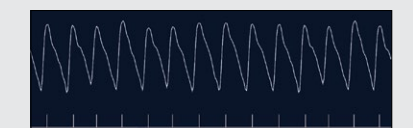
The ratio of the pulsatile blood flow to the non-pulsatile blood in peripheral tissue used to measure peripheral perfusion.

### 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
<b>Masimo SET<sup>®</sup> Measure-through Motion and Low Perfusion Technology</b>	•	•	•
<b>Measurements</b>			
SpO <sub>2</sub> (Oxygen Saturation)	•	•	•
PR (Pulse Rate)	•	•	•
Pi (Perfusion Index)	•	•	•
RRp (Respiration Rate)			•
PVi (Pleth Variability Index)			•
<b>Display</b>			
Pleth Waveform	•	•	•
150-Degree Viewing Angle	•	•	•
Rotational Screen	•	•	•
<b>Bluetooth LE</b>		•	•
<b>Compatible with Masimo Professional Health App<sup>2</sup></b>		•	•
<b>Four Year Limited Warranty</b>	•	•	•

# MightySat Rx Specifications

DISPLAY RANGE	PHYSICAL CHARACTERISTICS
Functional Oxygen Saturation (SpO <sub>2</sub> ) ..... 0-100%	Weight with Battery <sup>6</sup> ..... 73 g (0.16 lbs)
Pulse Rate (PR) ..... 25-240 bpm	Dimensions ..... 7.4 cm x 4.1 cm x 3.0 cm (2.9" x 1.6" x 1.2")
Perfusion Index (Pi) ..... 0.02-20%	<b>ALARMS</b>
Respiration Rate (RRp) ..... 4-70 rpm	No alarms on this product
Pleth Variability Index (PVi) ..... 0-100%	<b>CLASSIFICATION PER IEC 60601-1</b>
<b>ACCURACY - (ARMS)<sup>4</sup></b>	EMC Classification ..... Class B
Oxygen Saturation (%SpO <sub>2</sub> ) Accuracy Range ..... 70-100%	Degree of Protection ..... Type BF-Applied Part
No Motion ..... .2%	Enclosure Degree of Ingress Protection ..... IP23
Motion ..... .3%	Mode of Operation ..... Continuous Operation
Low Perfusion ..... .2%	<b>COMPLIANCE</b>
Pulse Rate (PR) Accuracy Range ..... 25-240 bpm	Safety ..... UL 60601-1, CSA C22.2 No. 601.1, IEC 60601-1, EN 60601-1
No Motion ..... .3 bpm	EMC ..... EN 60601-1-2, Class B
Motion ..... .5 bpm	Pulse Oximeter ..... ISO 80601-2-61
Low Perfusion ..... .3 bpm	Conformity to EU MDD 93/42/EEC ..... CE Marked
Respiration Rate (RRp) Accuracy Range <sup>5</sup> ..... 4-70 rpm	<b>BATTERY</b>
RRp ..... 3 rpm	Operating ..... Two 1.5 Volt AAA Batteries
RRp Mean Error* ..... ± 1 rpm	Battery ..... Approximately 1800 spot-checks <sup>7</sup>
<b>PATIENT WEIGHT</b>	<b>COMMUNICATION</b>
Adult and Pediatric Patients ..... >30 kg (66 lbs)	Radio Modes ..... Bluetooth LE
<b>MEASUREMENT RESOLUTION</b>	Communication Compliance
Oxygen Saturation (%SpO <sub>2</sub> ) ..... 1%	Canada ..... IC: 7362A-MSAT01A
Pulse Rate (PR) ..... 1 bpm	RSS-210
Pleth Variability Index (PVi) ..... 1%	Europe ..... EN 300 328
Respiration Rate (RRp) ..... 1 rpm	EN 302 489-17
<b>ENVIRONMENTAL</b>	
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	

<sup>1</sup> Estimate: Masimo data on file. <sup>2</sup> The app is downloadable from the App Store<sup>®</sup> for iOS devices or Google Play<sup>™</sup> store for select Android<sup>™</sup> devices. For an up-to-date list of compatible smart devices, see: www.masimo.com/professional-health/ <sup>3</sup> Apple is a registered trademark of Apple Inc. registered in the U.S. and other countries. <sup>4</sup> 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. <sup>5</sup> RRp performance was validated across the entire range of 4-70 rpm through bench testing. <sup>6</sup> Weight is dependent on batteries used. <sup>7</sup> 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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