

MightySat™ Rx Fingertip Pulse Oximeter

Featuring Masimo Signal Extraction Technology® (SET®)
Measure-through Motion and Low Perfusion™ Pulse Oximetry

Measurements

- SpO₂ Oxygen Saturation
- PR Pulse Rate
- PI Perfusion Index
- PVI® Pleth Variability Index®



Masimo SET® – Superior Technology Used in Hospitals Worldwide

- > In a study comparing three pulse oximetry technologies, **Masimo SET®** demonstrated the highest sensitivity and specificity in identifying desaturation events during conditions of motion and low perfusion¹
- > **Masimo SET®** pulse oximetry helps clinicians monitor more than 100 million patients a year²
- > **Masimo SET®** is integrated in more industry-leading multi-parameter monitors than any other pulse oximetry technology

Designed for Performance

High Resolution Display

- Rotating and adjustable colour screen for clear display of all measurements

Plethysmographic Waveform

- Masimo SET® provides accurate depiction of the patient's pleth

Touchpad

- Allows for easy access of settings and device features

Durable, Lightweight Design

- Easy to carry and resilient for use in clinical and homecare environments



Flexible Pad

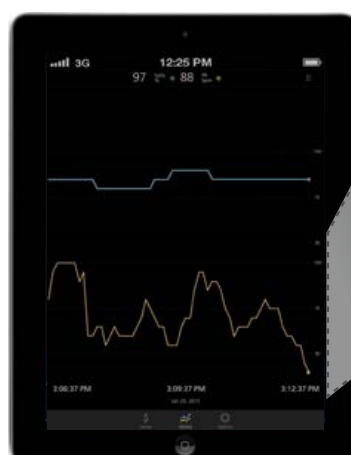
- Easily conforms to finger shape for enhanced comfort
- Enables secure application to finger to minimise external interference

Free Downloadable Masimo Professional Health App*

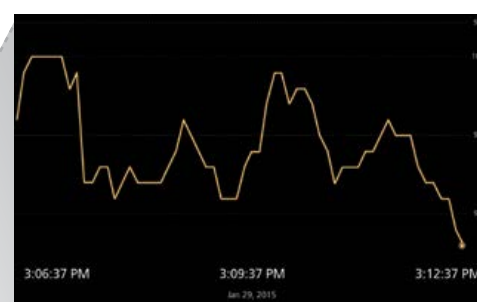
Display parameter data to a compatible smart device with Bluetooth® LE enabled models. Measurements can also integrate into Apple's Health app.**



VIEW measurements on compatible smart device*



TREND measurements over time, view on graphical display, and share the captured data



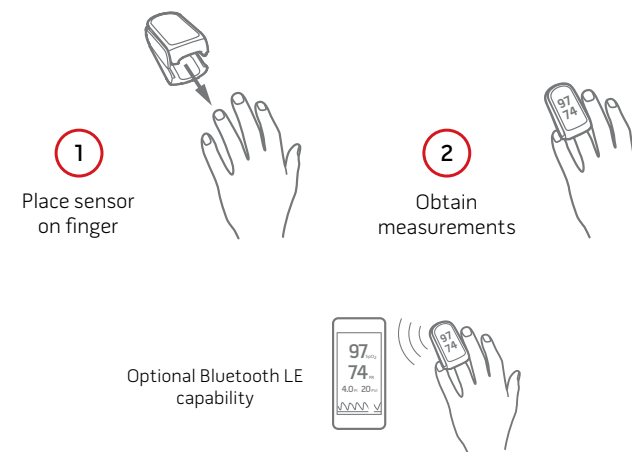
Example of data trend over 6 minutes

* 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.masimoprofessionalhealth.co.uk

Comparison at a Glance

	Masimo MightySat Rx	Nonin Onyx II 9590
Key Product Features		
Parameters: SpO ₂ and PR featuring Masimo Signal Extraction Technology (SET®)	Yes	No
Parameter: Perfusion Index (PI)	Yes	No
Parameter: Pleth Variability Index (PVI)	Yes	No
Pleth Waveform	Yes	No
Rotating and adjustable colour screen for real-time display of all measurements	Yes	No
App includes: high resolution pleth waveform, smart tone audible feature, and trending functionality	Yes	No
Customisable settings with use of touchpad	Yes	No
Flexible finger pad	Yes	No

Results in Two Easy Steps



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



Unique Parameters and Indicators

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.

Signal IQ (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 pulse pressure waveform.



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

MightySat Rx Models

	MightySat Rx P/N 9707	MightySat Rx with Bluetooth LE P/N 9807	MightySat Rx with Bluetooth LE & PVI P/N 9907
Masimo SET® Measure-through Motion and Low Perfusion™ Technology	•	•	•
Measurements			
SpO ₂ (Oxygen Saturation)	•	•	•
PR (Pulse Rate)	•	•	•
PI (Perfusion Index)	•	•	•
PVI (Pleth Variability Index)			•
Display			
Pleth Waveform	•	•	•
3.3 cm Color Display	•	•	•
Rotational Screen	•	•	•
Bluetooth LE		•	•
Compatible with Masimo Professional Health App*		•	•
Four Year Limited Warranty	•	•	•

MightySat Rx Specifications

DISPLAY RANGE	PHYSICAL CHARACTERISTICS
Functional Oxygen Saturation (SpO ₂)..... 0–100%	Weight with Battery ⁴ 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%	ALARMS
Pleth Variability Index (PVI) 0–100%	No alarms on this product
ACCURACY – (ARMS)³	CLASSIFICATION PER IEC 60601-1
SpO ₂ Accuracy Range (ARMS) 70–100%	EMC Classification..... Class B
No Motion 2%	Degree of Protection..... Type BF-Applied Part
Motion..... 3%	Enclosure Degree of Ingress Protection IP23
Low Perfusion..... 2%	Mode of Operation..... Continuous
PR Accuracy Range (ARMS) 25–240 bpm	COMPLIANCE
No Motion 3 bpm	Safety UL 60601-1, CSA C22.2 No. 601.1, IEC 60601-1, EN 60601-1
Motion..... 5 bpm	EMC EN 60601-1-2, Class B
Low Perfusion..... 3 bpm	Pulse Oximeter..... ISO 80601-2-61
PATIENT WEIGHT	Conformity to EU MDD 93/42/EEC..... CE Marked
Adult and Pediatric Patients >30 kg (66 lbs)	BATTERY
MEASUREMENT RESOLUTION	Operating..... Two 1.5 Volt AAA Batteries
SpO ₂ 1%	Battery Approximately 1800 spot checks ⁵
PR 1 bpm	COMMUNICATION
Data Display %SpO ₂ , PR, PI, PVI, Signal IQ, and Pleth Waveform	Radio Modes Bluetooth LE
ENVIRONMENTAL	Communication Compliance
Operating Temperature..... 5 to 40° C (41 to 104° F)	USA FCC ID: VKF-MSAT01A
Storage Temperature..... -40 to 70° C (-40 to 158° F)	FCC parts 15, 247
Operating Humidity 10 to 95%, non-condensing	Canada IC: 7362A-MSAT01A
	RSS-210
	Europe..... EN 300 328
	EN 301 489-17

References

¹ Shah N et al. *J. Clin Anesth.* 2012 Aug; 24(5):385-91. ² Masimo data on file. ³ ARMS (Accuracy Root Mean Square) values determined using the MightySat Rx with Masimo SET® Oximetry Technology in a clinical study under motion and no motion conditions. ⁴ Weight is dependent on batteries used. ⁵ Based upon 15 hours of operation with screen brightness set to 50% and a spot check of 30 seconds.

*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.masimoprofessionalhealth.com

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IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

Android is a trademark of Google Inc.

MightySat Rx has obtained CE Marking. Not available in the U.S.

For professional use. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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