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 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

Free Downloadable Masimo Professional Health App2

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

Comparison at a Glance

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<th>Key Product Features</th>
<th>Masimo MightySat Rx</th>
<th>Nonin® Onyx® II 9560</th>
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</thead>
<tbody>
<tr>
<td>Parameters: SpO2 and PR featuring Masimo Signal Extraction Technology® (SET®)</td>
<td>✅</td>
<td>☑</td>
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<tr>
<td>Parameter: Perfusion Index (Pi)</td>
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<tr>
<td>Parameter: Respiration Rate (RRp)</td>
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<td>Pleth Waveform</td>
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<td>Rotating and adjustable color screen for real-time display of all measurements</td>
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<tr>
<td>App includes: high-resolution pleth waveform, smart tone audible feature, and trending functionality</td>
<td>✅</td>
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<tr>
<td>Customizable settings with use of touchpad</td>
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</table>

Results in Two Easy Steps

1 Place sensor on finger
2 Obtain measurements

Optional Bluetooth LE capability

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).
### MightySat Rx Models

<table>
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<tr>
<th>MightySat Rx Models</th>
<th>MightySat Rx</th>
<th>MightySat Rx with Bluetooth LE</th>
<th>MightySat Rx with Bluetooth LE, RRp &amp; PVi</th>
<th>MightySat Rx with PVI &amp; RRp</th>
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<tbody>
<tr>
<td></td>
<td>P/N 9709</td>
<td>P/N 9809</td>
<td>P/N 9909 P/N 9942</td>
<td>P/N 9941</td>
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</table>

### 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
- Four Year Limited Warranty
- Device Color Available

### 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
- 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 Range1.......................... 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 (41 to 158°F)
- Operating Humidity .................. 10 to 95%, non-condensing
- Atmospheric Pressure ............ 740 to 1060 mBar

#### PHYSICAL CHARACTERISTICS
- Weight with Battery*........................... 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”)
- Weight without Battery .................. Approximately 45 g (1.6 oz)

#### 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 checks2

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

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1. Estimate: Masimo data on file. 2. The app is downloadable from the Apple 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. Accuracy is a statistical calculation of the difference between device measurements and reference measurements. Approximately two-thirds of the device measurements fell within ± A 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 on 15 hours of operation with screen brightness set to 50% and a spot-check of 30 seconds.

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.