



# Masimo W1<sup>®</sup>



Continuous Medical Watch



Miniaturizing powerful technology into a lifestyle-friendly medical watch, **Masimo W1** empowers patients with real-time pulse oximetry. Patients can track clinically accurate measurements such as SpO<sub>2</sub>, pulse rate, and heart rate to help manage their own recovery, chronic conditions, or overall wellness, encouraging them to take a more active role in their own health.



## The Power of Continuous Measurements

- > The world's first FDA-cleared continuous SpO2 medical watch
- > Second-by-second tracking on the wrist to help expand patients' insight into their measurements

User-friendly touchscreen interface

Top electrocardiogram (ECG) electrode



Optical pulse oximeter sensor

Bottom ECG electrode

Flexible, adjustable M-band™

# Comprehensive Insights

Continuous, accurate tracking provides actionable insights at a glance. Measurements that fall outside of normal ranges are indicated in red, with haptic feedback to further alert the user.



## Oxygen Saturation (SpO<sub>2</sub>)

Estimation of the relative amount of oxygen available in the blood flowing to the tissues, based on the ratio of the amount of light absorbed by oxygenated vs. deoxygenated hemoglobin by different wavelengths of light.



## Pulse Rate (PR)

Estimation of the number of times blood is pushed through the body by the heart per minute, based on the pulsatile light absorption changes used for determining SpO<sub>2</sub>.



## Perfusion Index (Pi)

A calculation of the relative strength of the pulsatile signal used for SpO<sub>2</sub> and PR, Pi increases with better blood circulation. SpO<sub>2</sub> values may be more reliable when the Pi value is higher.



## Heart Rate (HR)

Estimation of the number of heart beats per minute (BPM), based on the electrical signals detected in the ECG waveform.



## Activity (Steps)

Estimation of the level of physical activity as captured by motion, represented in steps.



# From the Innovators of Trusted Masimo SET® Pulse Oximetry

Inspired by the same technology that revolutionized pulse oximetry over 30 years ago—miniaturized to capture measurements from the wrist.

## Masimo SET®

- > Used to monitor over 200 million patients each year<sup>1</sup>
- > Shown in over 100 studies to outperform other pulse oximetry technologies<sup>2</sup>

Learn More:



### Masimo W1 Medical

Patient Population . . . . . 18 years and older

### Display Range

Oxygen Saturation (SpO<sub>2</sub>) . . . . . 0-100%

Pulse Rate (PR) . . . . . 25 bpm-240 bpm

Perfusion Index . . . . . 0.02-20%

Heart Rate (HR) from ECG . . . . . 25 bpm-240 bpm

ECG Waveforms . . . . . ≥ 10mV

### Accuracy (ARMS)\*

Oxygen Saturation (% SpO<sub>2</sub>) Accuracy Range . . . . . 70-100%

No Motion . . . . . .2%

Low Perfusion . . . . . .2%

Pulse Rate (PR) Accuracy Range . . . . . 25 bpm-240 bpm

No Motion . . . . . .3 bpm

Heart Rate (HR) from ECG Accuracy Range . . . . . 25 bpm-240 bpm

≤ 5 bpm

Heart Rate (HR) from ECG . . . . . 25 bpm-240 bpm

≤ 5bpm

### Measurement Resolution

Oxygen Saturation (%SpO<sub>2</sub>) . . . . . .1%

Pulse Rate (PR) . . . . . .1 bpm

Heart Rate (HR) . . . . . .1 bpm

Perfusion Index . . . . . .0.01%-1%

### Normal Range

Oxygen Saturation (%SpO<sub>2</sub>) . . . . . .90% to 100%

Pulse Rate (PR) . . . . . 50 bpm-140 bpm

### Environmental

Operating Temperature . . . . . 32°F to 95°F

Storage/Transport Temperature . . . . . -4°F to 140°F

Operating Humidity . . . . . 10% to 95% RH (non-condensing)

Storage/Transport Humidity . . . . . 10% to 95% RH (non-condensing)

Operating Atmospheric Pressure . . . . . 540 mBar to 1060 mBar

### Classification per IEC 60601 1

Type of ME Equipment . . . . . Body Worn

Type of Protection . . . . . Internally powered (Battery power)

Degree of Protection of Electrical Shock . . . . . CF-Applied Part

Ingress Protection . . . . . IP24

Mode of Operation . . . . . Continuous

### Compliance

Safety . . . . . IEC 60601-1, IEC 60601-1-2, EN ISO 80601-2-61,

IEC 60601-1-11

### Physical Characteristics

Power . . . . . Li-ion rechargeable battery with up to 22 hours of operation<sup>†</sup>

Screen . . . . . 40 mm touch watch face

Depth (D): 1.57 cm

16-bit color

Corning Gorilla Glass 3

Wristband . . . . . Silicone

Weight . . . . . .34 g (without wristband)

54 g (with wristband)

Dimensions (with wristband) . . . . . Width (W): 1.48 inches

Length (L): 10.5 inches

<sup>1</sup> Estimate: Masimo data on file. <sup>2</sup> Published clinical studies on pulse oximetry and the benefits of Masimo SET® can be found on our website at <http://www.masimo.com>. Comparative studies include independent and objective studies which are comprised of abstracts presented at scientific meetings and peer-reviewed journal articles.

\* 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>†</sup> Supports the ability to charge battery from 0 to 80% of battery capacity in <3 hours Wireless charging.

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.

