

Radius VSM™

Patient-worn, Continuous Vital Signs Monitor



POWERED BY TRUSTED MASIMO TECHNOLOGY

Acoustic Respiration Rate (RRa®)

Continuous Body Temperature

- > Measures body temperature
- > Multi-thermistor design accounts for ambient temperature

Masimo ECG

- > Low noise 3-lead ECG:
 - I, II, III, aVR, aVL, aVF
- > Lethal arrhythmia detection
- > Pacemaker pulse detection
- > Lightweight, adhesive, prewired electrode leadwire set
- > Respiration rate (impedance)

Patient Position and Activity

- > Continuous patient position turn monitoring and notifications
- > Patient posture and head-of-the-bed angle
- > Notifications of patient activity:
 - Upright (standing or sitting)
 - Walking
- > Fall detection
- > Respiration rate (chest wall movement)

Masimo Noninvasive Blood Pressure (NIBP)

- > Measure on inflation
- > Fast and slow inflation modes
- > Customisable schedule
- > Designed to muffle noise
- > Worn on either arm
- > Disposable, single-patient-use cuffs

Radius VSM

- > Wearable vital signs device
- > Up to 12 hours of battery life
- > 2.6" touchscreen
- > Full waveforms, trends
- > Audible and visual alarms
- > 96 hours of full parameter trend data storage
- > Water resistant
- > Wi-Fi connectivity to Patient SafetyNet™ *
- > Bluetooth® connectivity to Root®

Measure-through Motion and Low Perfusion™† Pulse Oximetry

SpO2 PR Pi PVi RRp

Radius VSM: A Connected Solution



Radius VSM Device Specifications

Battery Life	Up to 12 hours of continuous monitoring with 4 NIBP measurements per hour [†]
Device Weight	122g
Multi-Function Reusable Pod Weight	20g
Wi-Fi	Supports the 802.11 a/b/g/n wireless standard
Bluetooth	Supports version 4.2

Alarm Device	Visual and audible alarm characteristics comply with IEC 60601-1-8
Fluid Ingress Protection	IP24
Drop Test	Compliant with EN 60601-1, 3rd edition, Part 1, Clause 15.3.4.1, and IEC 60601-2-27, 201.15.3.4

Masimo SET® Specifications

Available Sensors	RD SET® CS-1, 1 ft., available in Adt and Neo/Adt RD SET CS-2, 2 ft., available in Adt and Neo/Adt
Accuracy (ARMS)	SpO ₂ : 2% (no motion), 3% (motion), 2% (low perfusion) PR: 3bpm (no motion), 5 bpm (motion) RRp: 3 rpm [¶] , ± 1 rpm mean error
Connector Type	RD connector
Supported Parameters	SpO ₂ , PR, Pi, PVi, RRP

NIBP Specifications

Cuff Sizes	Small Adult, 20–26 cm Adult, 25–34 cm Large Adult, 32–43 cm
Blood Pressure Accuracy	Meets ANSI/AAMI SPO and ISO 81060-2 (Mean difference of ≤5 mmHg with a standard deviation of ≤8 mmHg)
Diastolic	40–130 mmHg
Systolic	60–230 mmHg
Placement	Left or Right Upper Arm
Measurement Method	Oscillatory, measure on inflation
Module Weight	111g

Patient Position and Activity

Incline Angle Measurement Range	-180° to 180°
Respiratory Rate Measurement Range	8–45 rpm

Respiratory Rate Accuracy (ARMS)	3 rpm [¶]
----------------------------------	--------------------

Continuous Body Temperature Specifications

Clinical Accuracy	Measurement Range: 36°C to 42°C Bias: -0.2°C Limits of Agreement (LoA): 1.0°C
Laboratory Accuracy	Measurement Range: 25°C to 43°C Accuracy: ±0.3°C

rainbow Acoustic Monitoring® Specifications (RRa)

Measurement Range	4–70 bpm (adults)
Accuracy (ARMS)	1 bpm [¶]

Masimo ECG Specifications

Lead Configuration	3-Lead ECG (uses 4 electrodes)
Available Leads	I, II, III, aVR, aVL, aVF
Leads analysed	single lead or multi-lead
Heart Rate (HR) Measurement range	15 – 300 bpm
HR Accuracy	± 2 bpm or 1% (whichever is greater)
Respiration Rate (RR) Measurement Range	4–120 breaths/min
RR Accuracy	≤ 1 breaths/min mean error
Premature Ventricular Contractions (PVCs) Rate Display Range	0–99 PVCs/minute

Rhythm Classification/Detection	Normal rhythm Bradycardia Extreme Bradycardia Tachycardia Extreme Tachycardia Atrial Fibrillation
Lethal Rhythm Detection	Asystole Ventricular Tachycardia Ventricular Fibrillation
Pacer Detection	Detection leads: I, II, and III (up to all three)
Beat Classification	Normal Ventricular Paced
ECG Waveform Display	Radius VSM Root Patient SafetyNet View Station

Ordering Information

Radius VSM Device and Modules

Radius VSM Device, 1/box	9037
Radius VSM Multi-Functional Reusable Pod	4888
Radius VSM NIBP Module	4889
Radius VSM Root Charger	4784

Ready-to-go Configuration Kit

Radius VSM Kit [‡]	9036
Kit Contents	2 Radius VSM Devices 1 Multi-functional Reusable Pod 1 NIBP Module

Sensors and Accessories

RD SET Adt CS-1, Adult Adhesive SpO ₂ Sensor, 20/box	4615
RD SET Neo CS-1, Neonatal/Adult Adhesive SpO ₂ Sensor, 20/box	4886
Radius VSM – ECG Electrode Set, Adult 3-Lead, EIC, 20/box	4695
Radius VSM Disposable NIBP Cuff, Small Adult, 20/box	4825
Radius VSM Disposable NIBP Cuff, Adult, 20/box	4826
Radius VSM Disposable NIBP Cuff, Large Adult, 20/box	4827
Radius VSM RAS-45 Acoustic Respiration Sensor, Adult, 10/Box	4828
Radius VSM Disposable Arm Band, Large, 20/box	301027
Radius VSM Disposable Arm Band, Medium, 20/box	301028
Radius VSM Disposable Arm Band, Small, 20/box	301029

* The use of the trademark Patient SafetyNet is under license from University HealthSystem Consortium.

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

‡ The typical battery run time is 10 hours minimum with the following typical configuration: continuous Masimo SET®, RRa, 3-lead ECG measurements with body temperature and posture orientation, display is off, Wi-Fi is on, periodic (4 times/hour) NIBP measurement, and no alarm or pulse tone is active.

¶ ARMS accuracy is a statistical calculation of the difference between device measurements and reference measurements. Approximately two-thirds of the device measurement fell within ± ARMS of the reference measurements in a controlled study.

§ Kit does not include Root charger, sensors, cuffs, or accessories. Items must be ordered separately.

|| Clinical study abstracts presented at scientific meetings and peer-reviewed journal articles can be found on our website at <http://www.masimo.com>.

Radius VSM has obtained CE Marking. Not available for sale in the US. Radius VSM is not licensed for sale in Canada.

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

Masimo U.S.
Tel: 1 877 4 Masimo
info-america@masimo.com

Masimo International
Tel: +41 32 720 1111
info-international@masimo.com

