Rad-97™

Pulse CO-Oximeter® with Noninvasive Blood Pressure
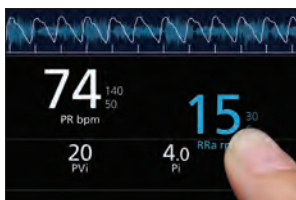

Masimo SET® Measurements
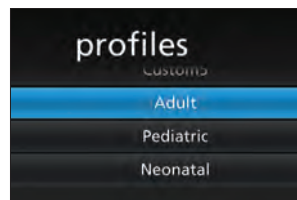
(SpO2) (PR)

(Pi) (PVi˙)
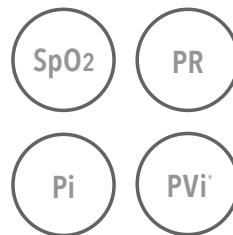
Upgradeable rainbow SET™ Measurements

(SpHb˙) (SpMet˙) (SpCO˙)

(SpOC™) (RRa˙)

Featuring rainbow SET Pulse CO-Oximetry with Integrated Noninvasive Blood Pressure (NIBP) Monitoring in a Standalone Device

Customizable display allows for quick assessment of patient status and provides pertinent data at a glance

Configurable patient profile settings for a variety of patient populations

Connectivity solutions for electronic charting of patient data in the EMR, automated by Patient SafetyNet™* or Iris Gateway™
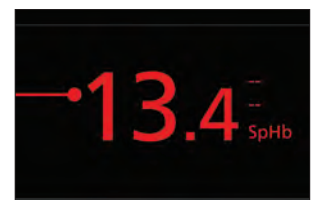
Upgradeable rainbow SET technology allows for continuous monitoring of multiple additional parameters

MASIMO

Noninvasive Blood Pressure Monitoring

Spot-check blood pressure measurements can be taken at any time

Automatic Interval Mode routinely takes blood pressure measurements once every desired interval, eliminating the need to do so manually

Stat Interval Mode continuously measures blood pressure for a desired duration of 5 or 10 minutes

Features

Use simple gestures on the multi-touch screen to move, expand, or collapse parameter trends for real-time analysis

Ethernet, Nurse Call Interface, and USB ports for seamless integration into wired infrastructures

Wi-fi and Bluetooth® provide compatibility with a variety of advanced connectivity solutions

Data can be displayed in numeric view or trend view

Optional roll stand allows for tetherless device transport, offering flexibility when space is limited

Integrated port to connect blood pressure hose

Easily interpretable display of blood pressure measurements

Compatible with disposable and reusable cuffs, for a variety of patient types, designed for reliability and patient comfort

Rad-97 with NIBP Specifications

MEASUREMENT ACCURACY	
NIBP	
Between 0 mmHg and 300 mmHg	±3 mmHg

DISPLAY RANGES	
NIBP (Adult, Pediatric, Neonatal)	
Systolic	40-260 mmHg, 40-230 mmHg, 40-130 mmHg
Diastolic	20-200 mmHg, 20-160 mmHg, 20-100 mmHg
MAP	26-220 mmHg, 26-183 mmHg, 26-110 mmHg

PHYSICAL CHARACTERISTICS	
Weight	3 lbs (< 1.36 kg)
Dimensions	22.9 cm x 16.5 cm x 10.2 cm (Approx. 9" x 6.5" x 4")

ENVIRONMENTAL	
Operating Temperature	32–95° F (0–35° C)
Atmospheric Pressure	540–1,060 mBar

COMPLIANCE	
Safety Standard(s)	ANSI/AAMI ES 60601-1, CAN/CSA C22.2 No. 60601-1, IEC/EN 60601-1, 3rd Ed.
Pulse Oximeter Standard(s)	ISO 80601-2-61
Alarm Standard(s)	IEC 60601-1-8
EMC Standard(s)	EN 60601-1-2, Class B
Type of Protection	Class I (AC power) / Class II (Internally Powered)
Degree of Protection	Type BF, Defib Proof-Applied Part
Mode of Operation (per IEC 60601-1)	Continuous Operation
Enclosure Degree of Protection	IP21

ORDERING INFORMATION	
	Part Number
Rad-97 NIBP	9797

Mounts, carts, cuffs, and other optional accessories sold separately.

* The use of the trademark PATIENT SAFETYNET is under license from University Health System Consortium.

Rad-97 is not licensed for sale in Canada.

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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Masimo Sensors

RD SET®

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

Now with Improved SpO2 Accuracy for All Patients

> Maximizing Patient Comfort

> Optimizing Clinician Workflow

> Helping Hospitals Meet Their Green Initiatives ♻

Masimo

MAXIMIZING PATIENT COMFORT

Lightweight sensor with a flat, soft cable

> ## FLAT SENSOR CABLE

> Flat, lightweight sensor cable with smooth edges lies comfortably on the patient's hand or foot
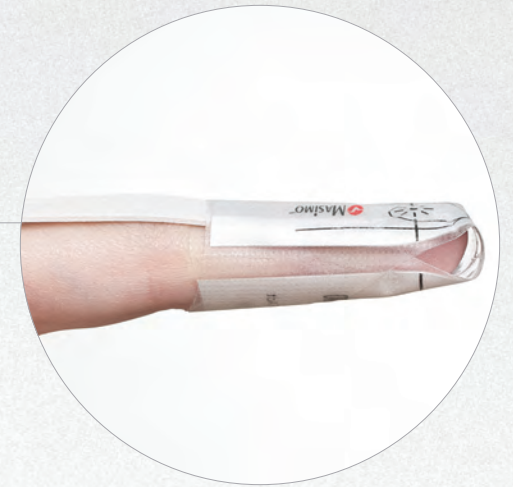
> ## LIGHTWEIGHT CONNECTOR

> ## SMALL, THIN OPTICAL COMPONENTS

> Low profile internal components allow the sensor to better conform to the shape of a finger and may put less pressure on the measurement site

> Orientation of optical components position the sensor cable comfortably on top of the hand

Tape removed for illustrative purposes

RD SET Sensors for Caregivers
OPTIMIZING CLINICIAN WORKFLOW

Simple to use with enhanced connection and sensor application features for a better user experience

> SpO2 accuracy has improved in conditions of motion and no motion, providing clinicians with greater confidence when monitoring oxygenation status.

location of emitter/detector

> TWO STYLES OF SENSORS FOR USE ON DIFFERENT PATIENT TYPES

Wrap-around Style Sensors
- > Available in adult, pediatric, infant, and neonatal sizes
- > Easily removed and reapplied
- > Suited for patients with long fingernails or finger deformities

Fold-over Style Sensors
- > Available in adult and pediatric sizes
- > Offer a more secure application to the digit and more intuitive sensor alignment

> QUICK CONNECTION

- > Intuitive sensor-to-cable connection
- > Tactile and audible feedback to ensure proper connection

> SENSOR GRAPHICS TO GUIDE PROPER SENSOR APPLICATION

- > Application graphics printed on top and bottom of sensors to assist with sensor application for optimal performance and ease of sensor removal and reapplication
- > Sensor labels to immediately communicate location of emitter/detector

RD SET Sensors for the Environment

HELPING HOSPITALS MEET THEIR GREEN INITIATIVES ♻

The same Masimo SET® performance with a significant reduction in waste

> SENSOR MATERIALS

› Lightweight sensor results in less material waste

RD SET Adt Sensor

Lighter than traditional cable-based sensors

Traditional Cable-based Sensor
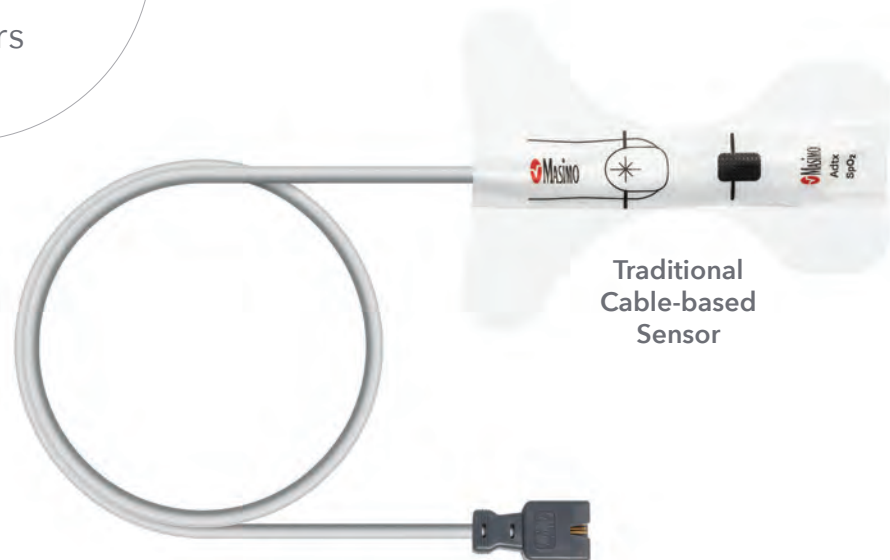
> PACKAGING DESIGN

› RD SET sensors utilize significantly smaller packaging

› Lightweight package design is easy to handle

Volume: 100.48 inches³ (255.22 cm³)

Volume: 181.25 inches³ (460.375 cm³)

Sleek recyclable packaging reduces storage space by 44%*

Traditional Cable-based Sensor Box
Box of 20

RD SET Sensor Box
Box of 20

*Storage space reduction calculated by dividing the reduction in volume by volume of the traditional cable-based sensor box.

> LIGHTWEIGHT SENSOR AND PACKAGING DESIGN FOR A GREEN SOLUTION

Up to 84% less waste with Adult RD SET sensors versus traditional cable-based sensors**

Traditional Cable-based Sensors

84%
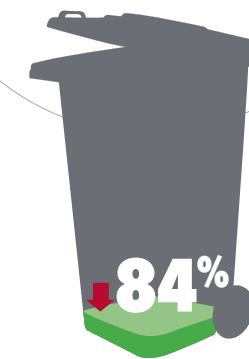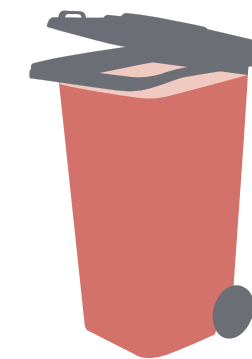
RD SET Sensors

**Waste calculated by comparing the sensor and packaging weight of traditional cable-based sensors versus Adult RD adhesive sensors. Internal data on file.

APPLICATION

RD SET Adt
finger application

RD SET Pdt
finger application

RD SET Inf
thumb application

RD SET Neo
foot application

RD SET NeoPt /
NeoPt-500
foot application

DISPOSABLE SENSORS

RD SET Adt

RD SET Pdt

RD SET Neo

RD SET Inf

RD SET NeoPt

RD SET NeoPt-500

Masimo's SofTouch line of sensors is designed to be used whenever skin sensitivity issues are a concern, such as with extremely low birth weight infants. Masimo SofTouch sensors incorporate soft foam and VelAid hook and loop attachment wraps that come in a variety of configurations to address a wide range of clinical uses.

RD SET DISPOSABLE SENSOR SERIES SPECIFICATIONS

ACCURACY

RD SET Adt/ Pdt/ Inf/ Neo/ NeoPt/ NeoPt-500 (A$_{RMS}$)[1]
SpO$_2$ Accuracy Range 70–100%
No Motion 1.5%
Motion 1.5%
Low Perfusion 2%
PR Accuracy
No Motion . . . . .3 bpm
Motion . . . . .5 bpm
Low Perfusion . . . . .3 bpm

SpO$_2$ Limits of Agreement (LoA)
Upper 95% LoA (no motion) 2.3%
Lower 95% LoA (no motion). . . . . –2.3%
Upper 95% LoA (motion) 2.9%
Lower 95% LoA (motion) . . . . –2.2%

WEIGHT RANGE

RD SET Adt . . . . >30 kg, finger or toe application
RD SET Pdt . . . . 10–50 kg, finger or toe application
RD SET Inf . . . . .3–10 kg, thumb or great toe application
RD SET Inf . . . . 10–20 kg, finger or toe application
RD SET Neo (neonatal) . . . . <3 kg, hand or foot application
RD SET Neo (adult) . . . . >40 kg, finger or toe application
RD SET NeoPt. . . . . <1 kg, hand or foot application
RD SET NeoPt-500. . . . . <1 kg, hand or foot application

COMPATIBILITY

Compatible Oximeters . . . . Systems containing Masimo SET® or licensed to use RD SET Series sensors[2]

INFORMATION

Single-patient-use / Non-sterile / Packaged 20 per box / Does not contain natural rubber latex

ORDERING INFORMATION

RD SET Disposable Sensor Series	**Part Number**
RD SET Adt	4000
RD SET Pdt	4001
RD SET Inf	4002
RD SET Neo.	4003
RD SET NeoPt.	4004
RD SET NeoPt-500.	4005

RD SET Replacement Tapes/Wraps	**Part Number**
Replacement Tapes, Inf	4046
Replacement Tapes, Neo	4047
Replacement Wraps, NeoPt	4048
Replacement Wraps, NeoPt-500	4094
Replacement Tapes, Neo, Large	4674

PARAMETERS SUPPORTED

Oxygen Saturation (SpO$_2$)
Pulse Rate (PR)
Perfusion Index (Pi)
Pleth Variability Index (PVi®)
Respiration Rate from the Pleth (RRp®)

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[1] A$_{RMS}$ accuracy is a statistical calculation of the difference between device measurements and reference measurements. Approximately two-thirds of the device measurements fell within ± A$_{RMS}$ of the reference measurements in a controlled study. [2] Accuracy specifications provided reflect use with the following Masimo technology boards and software versions and higher: MS-2000 SB version V5.1, MSX-1 version V5.3, MX-5 version V7.12.

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