

MASIMO Rad-5®

A fully-featured hand-held pulse oximeter with the accuracy and reliability of Masimo SET, perfect for both continuous monitoring and spot-check applications

- > Masimo SET® technology is scientifically and clinically proven to provide accurate pulse oximetry measurements during motion and low perfusion
- > Lightweight, convenient handheld device with a long battery life—over 30 hours on 4 AA batteries
- > User configurable power up default settings
- > Sleep Mode allows clinicians to disable audio tones and LEDs
- > Up to 72 hours of trending memory
- > Perfusion Index (PI) indicates arterial pulse signal strength and may be used as a diagnostic tool during low perfusion
- > Signal I.Q.® (SIQ) bar for signal identification and quality indication during motion and low signal to noise situations
- > FastSat® tracks rapid changes in arterial O₂ with unmatched fidelity
- > SmartTone™ beeps in sync with pulse, even under patient motion conditions
- > Sensitivity options: APOD™, Normal, and MAX
- > Audible and visual alarms for High/Low Saturation, Pulse Rate, Sensor Off & Low Battery
- > Optional protective boot cover with built in table-top stand



Masimo Rad-5

FEATURES

FastSat® tracks rapid changes in arterial O₂ with unmatched fidelity.

The Alarm Status Indicator flashes when an alarm condition is present.

Signal I.Q.® (SIQ) bar is used for signal identification and quality indication during motion and low signal to noise situations. The LED rises and falls with the pulse, its height indicating signal quality. When Signal IQ is very low, and the SpO₂ and pulse rate values may be suspect, the LED turns red (left graphic).

Perfusion Index (PI) indicates arterial pulse signal strength. The LED bar is highest and green when the quality of the perfused site is best (left graphic); when PI is poor the LED bar is low and turns red (right graphic).



Protective boots are available in your choice of seven different colors.

PERFORMANCE & ORDERING INFORMATION:

PERFORMANCE

MEASUREMENT RANGE

SpO ₂	1 – 100%
Pulse Rate	25 – 240 (bpm)
Perfusion	0.02% – 20%

SATURATION ACCURACY

Saturation	70% to 100%
No Motion	
Adults, Pediatrics	±2 digits
Neonates	±3 digits
Motion	
Adults, Pediatrics	±3 digits
Neonates	±3 digits
Low Perfusion	
Adults, Pediatrics	±2 digits
Neonates	±3 digits

PULSE RATE ACCURACY

Pulse Rate	25 – 240 bpm
No Motion	
Adults, Pediatrics, Neonates	±3 digits
Motion	
Adults, Pediatrics, Neonates	±5 digits
Low Perfusion	
Adults, Pediatrics, Neonates	±3 digits

RESOLUTION

Saturation (%SpO ₂)	1%
Pulse Rate (bpm)	1 bpm

ELECTRICAL

BATTERIES

Type	4 AA Alkaline
Capacity	over 30 hours

ENVIRONMENTAL

Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)
Operating Humidity	5% to 95%, non-condensing
Operating Altitude	500 mbar to 1060 mbar pressure -1000 ft to 18,000 ft (-304 m to 5,486 m)

PHYSICAL CHARACTERISTICS

DIMENSIONS

Handheld	6.2" x 3.0" x 1.4" (15.8 cm x 7.6 cm x 3.6 cm)
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WEIGHT

Handheld	13 oz (0.32 kg)
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TRENDING

Provides up to 72 hours of trending at 2 second resolution.
Output to PC running Masimo TrendCom™ Utility

MODES

Averaging mode	2, 4, 8, 10, 12, 14 or 16 seconds
Sensitivity	APOD, Normal and Maximum

ALARMS

Audible and visual alarms for high and low saturation and pulse rate (SpO₂ range 1% - 100%, pulse rate range 25 - 240 bpm)
Sensor condition, system failure and low battery alarms

High Priority

- 799 Hz tone, 5 pulse burst, pulse spacing: 0.250s, 0.250s, 0.500s, 0.250s, repeat time: 10s

Low Priority

- 432 Hz tone, 3 pulses, repeat time: 5s

Alarm Volume

- High Priority: 75 dB (max), Low Priority: 75 dB (max)

DISPLAY/INDICATORS

Data display	% SpO ₂ , pulse rate, perfusion index, FastSat, alarm status, alarm silenced status, Signal IQ/pleth bar, battery status, MAX
Type	LED

COMPLIANCE

EMC Classification

- IEC 60601-1 2, Class B

Equipment Classification

- IEC 60601-1-1 / UL 60601-1

Type of Protection

- Internally powered (on battery power)

Degree of Protection-Patient Cable

- Type BF-Applied Part

Rad-5 Mode of Operation

- Continuous