

Rad-5[®]

A handheld pulse oximeter with Masimo SET[®] Measure-through Motion and Low Perfusion[™] pulse oximetry



- > In a study published in *Journal of Clinical Anesthesiology* comparing three pulse oximetry technologies, Masimo SET[®] demonstrated the highest sensitivity and specificity in identifying desaturation events during conditions of motion and low perfusion¹
- > Lightweight, handheld device with user-configurable power up default settings
- > Sleep Mode allows clinicians to disable audio tones and dim LEDs
- > Up to 72 hours of trending memory
- > Perfusion Index (Pi) is an assessment of the pulsatile strength at a specific monitoring site (e.g. the hand, finger, or foot), and as such Pi is an indirect and noninvasive measure of peripheral perfusion
- > Signal I.Q.[®] (SIQ) provides an assessment of the confidence in the displayed SpO2 value
- > FastSat[®] tracks rapid changes in arterial O2
- > 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, and Low Battery



Features

FastSat tracks rapid changes in arterial O₂.

Signal I.Q. (SIQ) provides an assessment of the confidence in the displayed SpO₂ value. A vertical LED bar rises and falls with the pulse, where the height of the bar indicates the quality of the signal (left graphic).

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

Perfusion Index (Pi) is an assessment of the pulsatile strength at a specific monitoring site (e.g. the hand, finger, or foot), and as such Pi is an indirect and noninvasive measure of peripheral perfusion. The LED bar is highest and green when the quality of the perfused site is best; 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.

Rad-5 Specifications

MEASUREMENT RANGE	PHYSICAL CHARACTERISTICS
SpO ₂ 1-100%	Dimensions 6.2" x 3.0" x 1.4" (15.8 cm x 7.6 cm x 3.6 cm)
Pulse Rate 25-240 bpm	Weight 13 oz (0.32 kg)
Perfusion 0.02-20%	
ACCURACY (ARMS) ²	TRENDING
Saturation 70-100%	Provides up to 72 hours of trending at 2 second resolution.
No Motion Adults/Pediatrics 2%	Output to PC running Masimo TrendCom™ Utility
No Motion Neonates 3%	
Motion Adults/Pediatrics 3%	MODES
Motion Neonates 3%	Averaging Mode 2, 4, 8, 10, 12, 14, or 16 seconds
Low Perfusion Adults/Pediatrics 2%	Sensitivity APOD, Normal, and Maximum
Low Perfusion Neonates 3%	ALARMS
Pulse Rate 25-240 bpm	Audible and visual alarms for high and low saturation and pulse rate (SpO ₂ range 1% - 100%, pulse rate range 25 - 240 bpm)
No Motion 3 bpm	Sensor condition, system failure, and low battery alarms
Motion 5 bpm	High Priority 799 Hz tone, 5 pulse burst, pulse spacing: 0.250s, 0.250s, 0.500s, 0.250s, repeat time: 10s
Low Perfusion 3 bpm	Low Priority 432 Hz tone, 3 pulses, repeat time: 5s
RESOLUTION	Alarm Volume High Priority: 75 dB (max), Low Priority: 75 dB (max)
Saturation (%SpO ₂) 1%	DISPLAY/INDICATORS
Pulse Rate (bpm) 1 bpm	Data Display % SpO ₂ , pulse rate, perfusion index, FastSat, alarm status, alarm silenced status, Signal IQ/pleth bar, battery status, MAX
BATTERIES	Type LED
Type 4 AA Alkaline	COMPLIANCE
Capacity over 30 hours	EMC Classification IEC 60601-1 2, Class B
ENVIRONMENTAL	Equipment Classification IEC 60601-1-1 / UL 60601-1
Operating Temperature 32°F to 122°F (0°C to 50°C)	Type of Protection Internally powered (on battery power)
Storage Temperature -40°F to 158°F (-40°C to 70°C)	Degree of Protection - Patient Cable Type BF - Applied Part
Operating Humidity 5% to 95%, non-condensing	Rad-5 Mode of Operation Continuous
Operating Altitude 500 mbar to 1060 mbar pressure -1000 ft to 18,000 ft (-304 m to 5,486 m)	

¹ Shah et al. *J Clin Anesth.* 2012;24(5):385-91. ² 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.

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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