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
Sp02 1-100% Pulse Rate 25-240 bpm Perfusion 0.02-20%	Dimensions .6.2" x 3.0" x 1.4" (15.8 cm x 7.6 cm x 3.6 cm) Weight .13 oz (0.32 kg) TRENDING
ACCURACY (Arms) ²	IKENDING
Saturation	Provides up to 72 hours of trending at 2 second resolution. Output to PC running Masimo TrendCom™ Utility
No Motion Neonates	MODES
Motion Adults/Pediatrics 3 % Motion Neonates 3 %	Averaging Mode 2, 4, 8, 10, 12, 14, or 16 seconds Sensitivity APOD, Normal, and Maximum
Low Perfusion Adults/Pediatrics	ALARMS
Pulse Rate .25-240 bpm No Motion .3 bpm Motion .5 bpm Low Perfusion .3 bpm	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
RESOLUTION	pulse spacing: 0.250s, 0.250s, 0.500s, 0.250s, repeat time: 10s
Saturation (%SpO2)	Low Priority
Pulse Rate (bpm)	DISPLAY/INDICATORS
BATTERIES	Data Display% SpO2, pulse rate, perfusion index,
Type	FastSat, alarm status, alarm silenced status, Signal IQ/pleth bar, battery status, MAX Type LED
ENVIRONMENTAL	71
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)	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

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.

