MASIMO

Rad-5v™

The accuracy and reliability of Masimo SET pulse oximetry in a compact device, perfect for spot-check and triage

> Masimo SET® technology is clinically proven to provide accurate pulse oximetry measurements during motion and low perfusion

> Lightweight, convenient handheld device with a long battery life

> FastStart™ allows for rapid measurement at start-up

> Signal IQ (SIQ®) bar for signal identification and quality indication during motion and low signal-to-noise situations

> Perfusion Index (PI) indicates arterial pulse signal strength and assists in site selection

> Multiple sensor options designed for various clinical applications

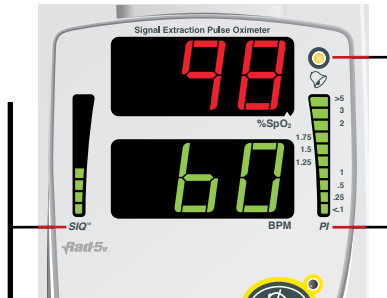> Battery indicator lights provide visual notification of power

Masimo

Masimo Rad-5v

FEATURES

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).

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

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

Measurement Range

SpO₂ ....1 – 100%
Pulse Rate ....25 – 240 (bpm)
Perfusion ....0.02% – 20%

Resolution

Saturation (%SpO₂) 1%
Pulse Rate (bpm)...1 bpm

Arterial Oxygen Saturation Accuracy (70% to 100%)

	No Motion	Motion	Low Perfusion
Neonates	±3 %	±3 %	±3 %
Paediatrics	±2 %	±3 %	±2 %
Adults	±2 %	±3 %	±2 %

Pulse Rate Accuracy (25 - 240 bpm)

	No Motion	Motion	Low Perfusion
Neonates	±3 bpm	±5 bpm	±3 bpm
Paediatrics	±3 bpm	±5 bpm	±3 bpm
Adults	±3 bpm	±5 bpm	±3 bpm

SPECIFICATIONS

Product

Mode of Operation .... Spot-Check

Electrical

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...................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)

Modes

Averaging Mode..8 seconds
Sensitivity... Normal

Alarms

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 ....% SpO₂, pulse rate, perfusion index,
alarm status, alarm silenced status, Signal IQ/pleth bar,
perfusion index bar, battery status
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-5v Mode of Operation ....Spot Check

Masimo U.S.
tel 1-877-462-7466
info-america@masimo.com

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

Masimo UK
tel +44-(0)-1256-479988
uksales@masimo.com

Masimo Asia-Pacific
tel+65-6392-4085
info-asia@masimo.com

0160-0230-0770