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.

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).

**PERFORMANCE & ORDERING INFORMATION:**

**PHYSICAL CHARACTERISTICS**

**DIMENSIONS**

Handheld .................................................. 6.2” x 3.0” x 1.4” (15.8 cm x 7.6 cm x 3.6 cm)

Handheld .................................................. 13 oz (0.32 kg)

**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 ........................................ % SpO₂, pulse rate, perfusion index, FastSat, alarm status, alarm silenced status, signal IQ/pleth bar, battery status, MAX

Type ............................................... LED

**COMPLIANCE**

EMC Classification ............................... IEC 60601-1-1, 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

**PERFORMANCE & ORDERING INFORMATION:**

**MEASUREMENT RANGE**

SpO₂ .................................................. 1 – 100%

Pulse Rate ........................................... 25 – 240 bpm

**SATURATION ACCURACY**

Saturation ........................................... ±3 digits

Adults, Pediatrics ........................................... ±3 digits

Neonates ........................................... ±3 digits

Motion

Adults, Pediatrics ........................................... ±2 digits

Neonates ........................................... ±2 digits

Low Perfusion

Adults, Pediatrics ........................................... ±3 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 (%SpO₂) ........................................... 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)

**ALARM VOLUME**

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

**SENSOR CONDITION**

FastSat, alarm status, alarm silenced status, signal IQ/pleth bar, battery status, MAX

**DISPLAY/INDICATORS**

Data display ........................................ % SpO₂, pulse rate, perfusion index, FastSat, alarm status, alarm silenced status, signal IQ/pleth bar, battery status, MAX

**COMPLIANCE**

EMC Classification ............................... IEC 60601-1-1, 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

**EQUIPMENT CLASSIFICATION**

Masimo Americas

tel 1-877-4-Masimo

info-america@masimo.com

Masimo International

tel +41-32-720-1111

info-international@masimo.com

© 2009 Masimo Corporation. All rights reserved.