Masimo Rad-8

Pulse Oximeter

Compact design. Unmatched clinical performance.

The Masimo Rad-8 has a compact design and unmatched clinical performance. The Rad-8 is proven to be accurate during motion and low perfusion in more than 100 independent and objective studies. With 95% accuracy without missing true clinical events, the Rad-8 has a reduced number of false alarms.

FEATURES

- Featuring Masimo SET pulse oximetry, proven accurate during motion and low perfusion in more than 100 independent and objective studies
- The accuracy of Masimo SET pulse oximetry has been shown to reduce false alarms by 95% without missing true clinical events
- Simple, easy to use interface for quick setup and alarm management with one touch programming
- Large LED color display is easy to read at a distance
- Compact, lightweight design is ideal for acute and alternate care settings including long term care facilities, homecare and sleep labs
- Sleep Mode easily configures system to perform bedside studies
- 2 second averaging in sleep mode
- Home Mode allows for safe and accurate monitoring and trending at home
- RadNet® and RadLink® interface capability for multi-patient remote monitoring Perfusion Index (PI) indicates arterial pulse signal strength and may be used as a diagnostic tool during low perfusion
- Low Signal IQ® (SIQ) indicator highlights conditions of low signal quality
- FastSat™ tracks rapid changes in arterial > O2 with high fidelity unlike any other pulse oximeter
- APOD™ (Adaptive Probe Off Detection) offers the best probe off detection of Masimo's three sensitivity modes - APOD, Normal and MAX sensitivity
- Adjustable averaging 2 to 16 seconds
- Nurse call interface
- Up to 7 hours of internal battery life when fully charged
- 72 hours of trending memory
- Available in horizontal and vertical configurations
- Compatible with Philips Vuelink device interface module

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Performance & Ordering Information:

Performance Measurement Range
SpO_2 .....1 – 100%
Pulse Rate .....25 – 240 (bpm)
Perfusion Index .....0.02% – 20%

Saturation Accuracy
Saturation .....60% to 80%
No Motion[2]
Adults, Infants, Pediatrics .....±4 digits
Saturation .....70% to 100%
No Motion
Adults, Pediatrics .....±2 digits
Neonate .....±3 digits
Motion[4]
Adults, Pediatrics .....±3 digits
Neonate .....±3 digits
Low Perfusion[5]
Adults, Pediatrics .....±2 digits
Neonate .....±3 digits

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

Resolution
Saturation (%SpO_2) 1%
Pulse Rate (bpm) .....1 bpm

Electrical
AC Power requirements .....100-240 VAC, 47-63 Hz
Power consumption.....20 VA Max

Batteries
Handheld
Type .....Sealed lead acid
Capacity .....up to 7 hours[6]
Charging time .....8 hours

Environmental
Operating Temperature .....41°F to 104°F (5°C to 40°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.....8.2” x 6.0” x 3.0” (20.8 cm x 15.2 cm x 7.6 cm)
Weight.....2.1 lbs=.908 kg=32oz

Modes
Averaging mode[7] .....2, 4, 8,10, 12, 14 or 16 seconds
Sensitivity.....APOD, Normal and Max[8]

Alarms
Audible and visual alarms for high and low saturation (1% to 100%), pulse rate (25 - 240 bpm), sensor condition, system failure and low battery
Alarm volume .....High: 85dB (min) - Low: 45dB (min)

Display/Indicators
Data display .....% SpO2, alarm status, alarm silenced status
AC power, Signal IQ/pleth bar, perfusion index bar,
battery status, no sensor, sensor off
Type .....LED

Compliance
Safety Standard for Medical Equipment .....IEC 60601-1 2nd Edition
UL 60601-1
CAN/CSA C22.2 No. 601-1
JIS 0601-1
Type of Protection...Class 1 (AC power) Internally powered (battery power)
Degree of Protection-Patient Cable .....Type BF, Defib Proof-Applied Part
Rad-8 Mode of Operation.....Continuous
EMC Standard .....EN60601-1-2, Class B

[1] Hay WW, Rodden DJ, Collins SM, Melera DL, Hale KA, Fashaw LM, Reliability of conventional and new oximetry in neonatal patients. Journal of Perinatology. 2002; 22:360-366. | [2] The arterial oxygen saturation accuracy during no motion only applies to LNOP® Blue SpO2 adhesive sensors | [3] De Felice et al. The pulse oximeter perfusion index as a predictor for high illness severity in neonates. Eu J Pediatr 2002; 161:561-562. | [4] Continuous rubbing and tapping motions at 2 to 4 Hz at an amplitude of 1 to 2 cm and continuous random frequency motion between 1 to 4 Hz at an amplitude of 2 to 3 cm. | [5] Pulse Amplitude >0.02% and % Transmission > 5%. | [6] When using a new, fully charged battery. | [7] With FastSat the averaging time is dependent on the input signal. For the 2 and 4 second settings the averaging time may range from 2-4 and 4-6 seconds, respectively. | [8] Maximum Sensitivity mode disables APOD, but maximizes measuring ability.

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