Rad-8

Compact design. Unmatched clinical performance.

- > 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







Masimo Rad-8

FEATURES

- 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 perfusion3
- 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

Signal I.Q.® (SIQ) bar is a signal quality indicator, most useful during motion and low perfusion situations. The LED rises and falls with the pulse, its height indicating signal

quality.

When Signal IQ is low, the display turns red, identifying suspect ${\sf SpO}_2$ and ${\sf Pulse}$ Rate values.



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

Perfusion Index (PI) indicates arterial pulse signal strength. PI may be used as a diagnostic tool during low perfusion for the accurate prediction of illness severity. The PI display is green when perfusion index is greater than or equal to 0.5 (left graphic) while the PI display is red when perfusion index is less than 0.5 (right graphic).





One touch alarm limits access



Rad-8 Back Panel: Serial output to compatible devices and nurse

PERFORMANCE & ORDERING INFORMATION:

PERFORMANCE MEASUREMENT RANGE	
SpO2. 1 – 100% Pulse Rate 25 – 240 (bpm) Perfusion Index. 0.02% – 20%	
SATURATION ACCURACY Saturation 60% to 80% No Motion² ±4 digits Saturation 70% to 100% No Motion Adults, Pediatrics Adults, Pediatrics ±2 digits Neonate ±3 digits Motion4 4 Adults, Pediatrics ±3 digits Neonate ±3 digits Low Perfusion⁵ 4 Adults, Pediatrics ±2 digits	
Neonate ±3 digits PULSE RATE ACCURACY	
Pulse Rate 25 – 240 bpm No Motion 4dults, Pediatrics, Neonate. ±3 digits Motion ±3 digits Adults, Pediatrics, Neonate. ±5 digits Low Perfusion ±3 digits Adults, Pediatrics, Neonate. ±3 digits	
RESOLUTION Saturation (%SpO2) 1% Pulse Rate (bpm) 1 bpm	
ELECTRICAL100-240 VAC, 47-63 HzAC Power requirements100-240 VAC, 47-63 HzPower consumption20 VA Max	

Handheld	
Type	Sealed lead acid
Capacity	up to 7 hours ⁶
Charging time	8 hours

ENIVIDONIMENTA I

RATTERIES

LIVINOINILIVIAL	
Operating Temperature	41°F to 104°F (5°C to 40°C)
	40°F to 158°F (-40°C to 70°C)
	5% to 95%, non-condensing
Operating Altitude	500 mbar to 1060 mbar pressure
-10	00 ft to 18,000 ft (-304 m to 5,486 m)
PHYSICAL CHARACTERISTICS	

THE SIGNE 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
MODEC	

AL ADMC					
Sensitiv	/ity	 	 APOI	D, Normal a	nd Max ⁸
			2, 4, 8,10,		

udible and visual alarms for high and low saturation (1% to 100%) nulse

Addible and visual diarnis for high and low saturation (1% to 100%), poise	
rate (25 - 240 bpm), sensor condition, system failure and low battery	
Alarm volume	۱)

DISPLAY/INDICATORS

DIST EAT/ INDICATIONS
Data display % SpO ₂ , alarm status, alarm silenced status
AC power, Signal IQ/pleth bar, perfusion index bar
battery status, no sensor, sensor of
Type LEC

COMPLIANCE

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 StandardEN60601-1-2, Class B

Safety Standard for Medical Equipment IEC 60601-1 2^{nd} Edition

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 SpQ₂ adhesive sensors|3De 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. I a Maximum Sensitivity mode disables APOD, but maximizes measuring ability.

