Masimo Rad-87[®]

Upgradable rainbow technology in a versatile, easy-to-use bedside monitor



Choose the noninvasive measurements that are right for your clinical setting—oxygen saturation, pulse rate, and perfusion index in addition to total hemoglobin, total arterial oxygen content, PVI, carboxyhemoglobin, and methemoglobin



Masimo Rad-87



- > Featuring "gold standard" Masimo SET® pulse oximetry, proven in more than 100 independent and objective studies to provide the most accurate and reliable SpO₂ readings during motion and low perfusion.
- > Upgradable Masimo Rainbow SET technology platform lets you add total hemoglobin (SpHb™) and total arterial oxygen content (SpOC™) through simple field-installed software upgrades.
- > Additional upgrades allow you to continuously and noninvasively measure carboxyhemoglobin (SpCO®), methemoglobin (SpMet®), and PVI™.

CUSTOM CONFIGURATION OPTIONS:









Alarm access allows you to instantly access, view, or modify alarm settings at the bedside.



Choose APOD™, Normal, or Max sensitivity with the touch of a button and verify settings at a glance.

In addition to SpO₂ and pulse rate, the Rad-87 allows you to select and display either SpHb or PVI on the main screen, with additional measurements displayed on subsequent screens accessed with the press of a button.







> The Rad-87 features a built-in radio for bidirectional wireless communication with Masimo Patient SafetyNet, the remote monitoring and clinician notification system that helps you keep at-risk patients safe on general care floors.

FEATURES:

- A simple, user-centered design allows activation of many features with only a single touch.
- > Easy-to-read, high-contrast display eliminates confusion common with many bedside monitors.
- One platform, multiple measurements—all Rainbow measurements can be displayed on the Rad-87.
- Alarms and alerts can be enabled at the bedside or via the Masimo Patient SafetyNet Remote Monitoring and Clinician Notification System.
- Perfusion Index (PI) with trending capability indicates arterial pulse signal strength and may be used as a diagnostic tool during low perfusion.
- Signal IQ™ provides signal identification and quality indication during excessive motion and low signal to noise situations.
- Compatible with Phillips Vuelink™ device interface module.
- > Compatible with 802.11a/b/g.

AT-A-GLANCE DISPLAYS:



PERFORMANCE:

MEASUREMENT RANGE 0 - 100% SpO2 0 - 100% SpMet 0 - 99.9% SpCO 0 - 99% SpHb 0 - 25 g/dL SpOC 0 - 35 ml of O ₂ /dl of blood Pulse Rate 25 - 240 bpm Perfusion Index 0.02 - 20% PVI 0 - 100% OXYGEN SATURATION ACCURACY SpO2	ENVIRONMENTAL 41°F to 104°F (5°C to 40°C) Operating temperature -40°F to 158°F (-40°C to + 70°C) Operating humidity .5% to 95%, noncondensing 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 = 32 oz
Saturation 60 – 80% No Motion ± 3% Adults/Infants/Pediatrics ± 3% Saturation 70 – 100%	Trending
No Motion ± 2% Adults/Infants/Pediatrics ± 3% Neonates ± 3% Motion ± 3% Adults/Infants/Pediatrics/Neonates ± 3% Low Perfusion ± 2% Adults/Infants/Pediatrics/Neonates ± 2%	Sensitivity
PULSE RATE ACCURACY Pulse Rate .25 – 240 bpm No Motion .4 3 bpm Adults/Infants/Pediatrics/Neonates .± 3 bpm Adults/Infants/Pediatrics/Neonates .± 5 bpm Low Perfusion .4 3 bpm Adults/Infants/Pediatrics/Neonates .± 3 bpm	DISPLAY/INDICATORS Data display: %SpO ₂ , %SpMet, %SpCO, SpHb g/dL, SpOC ml/dl, PVI, wireless, sensitivity, patient status light, device profile light, pulse rate, alarm status, alarm silenced status, AC power, Signal IQ / pleth bar, perfusion index bar, battery status, no sensor, sensor off Display Language English (default) APOD, Normal, and Max LED
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	OUTPUT INTERFACE 1) Serial RS-232 2) Nurse Call 3) Wireless radio (if installed)
TOTAL HEMOGLOBIN ACCURACY (SpHb g/dL) Adults/Pediatrics	COMPLIANCE Safety Standard for Medical Equipment IEC 60601-1 2nd Edition UL 60601-1 CAN/CSA C22.2 No. 601-1
Oxyhemoglobin Saturation (%SpO ₂)	JIS T 6061-1 Type of Protection
ELECTRICAL AC power requirements	## Continuous EMC Standard
BATTERIES Type	FCC Parts 15.247 and 15.407 Canada IC ID 7362A-Rad87 RSS-210 Europe En 300328 EN 301893 EN 301489-17



^{*} SpO₂, SpCO, and SpMet accuracy was determined by testing healthy adult volunteers in the range of 60% - 100% SpO₂, O% - 40% SpCO, and 0% - 15% SpMet against a laboratory CO-Oximeter. SpO₂ and SpMet accuracy was determined on 16 neonatal NICU patients ranging in age from 7 to 135 days old and weighing between 0.5 and 4.25 kgs. Seventy-nine (79) data samples were collected over a range of 70 - 100% SaO₂ and 0.5 - 2.5% HbMet with a resultant accuracy of 2.9% SpO₂ and 0.9% SpMet. Contact Masimo for testing specifications

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** This represents approximate runtime at the lowest indicator brightness and pulse tone turned off using a fully charged battery without radio power