SpO2 Modules (8210 & 8220 Series)

Alarms: Audible and visual alarms for high and low saturation and pulse rate, sensor

condition, system failure and low battery conditions.

Alarm Limits: <u>Low</u> <u>High</u>

Pulse Rate: 30 - 239 bpm 31 - 240 bpm SpO₂ 20 - 99% 21 - 100%

Dimensions: 3.3" W x 8.9" H x 5.5" D

(8.4 cm W x 22.6 cm H x 14 cm D)

Environmental Conditions: Operating Storage/Transport

Temperature Range: 41 - 104° F -4 - 140° F

(5 - 40° C) (-20 - 60° C)

Relative Humidity: 20 - 90% 5 - 85%

noncondensing noncondensing

Atmospheric Pressure: 525 - 4560 mmHg 375 - 760 mmHg

(700 - 6080 hPa) (500 - 1013 hPa)

Fluid Ingress Protection: IPX1, Drip Proof

Mode of Operation: Continuous

Shock Protection: Type BF

Weight: 2 lbs (0.91 kg)

SpO2 Modules (8210 Series Only)

Low Perfusion [©]	<u>Adult</u> ^①	Neonate [©]
20 - 250 bpm ±3 digits	20 - 250 bpm ±3 digits	20 - 250 bpm ±3 digits
70 - 100%	70 - 100%	70 - 100% ±3 digits
	20 - 250 bpm ±3 digits	20 - 250 bpm 20 - 250 bpm ±3 digits ±3 digits 70 - 100%

Display Update Period: 2.25 seconds

Measurement Range:

 Perfusion
 0.03 - 20%

 Pulse Rate
 20 - 250 bpm

 SpO2
 1 - 100%

Pulse Amplitude Display: Visual indicators for pulse signals represent proportional pulse amplitude

strength.

Sensor: Emitted light wavelength range is within 500 - 1000 nm. Output power does not exceed 15 mw.

SpO2 Modules (8220 Series Only)

Accuracy and Motion Tolerance:

	Low Perfusion ^①	Motion ∜ 🦫	No Motion [♠]	Resolution
Pulse Rate:	25 - 240 bpm ±3 digits Adults, Pediatrics, Neonates	25 - 240 bpm ±5 digits Adults, Pediatrics, Neonates	25 - 240 bpm ±3 digits Adults, Pediatrics, Neonates	1 bpm
Saturation:	70 - 100% Adults, Pediatrics: ±2 digits; Neonates: ±3 digits	70 - 100% ±3 digits Adults, Pediatrics, Neonates	70 - 100% Adults, Pediatrics: ±2 digits; Neonates: ±3 digits	1% SpO ₂

Display Update Period: Approximately 1 second.

Measurement Range:

 Perfusion
 0.02 - 20%

 Pulse Rate
 25 - 240 bpm

 SpO2
 1 - 100%

Pulse Amplitude Display: Proportional to height of I.Q. signal.

Sensor: Emitted light wavelength range is within 500 - 1000 nm. Output power does not exceed 1 mw.

NOTES:

- Specification applies to monitor performance.
- Adult specifications are shown for OXIMAX MAX-A and MAX-N sensors. Neonate specifications are shown for OXIMAX MAX-N sensors. Saturation accuracy varies by sensor type.
- Masimo[®] Board performance has been validated for low perfusion accuracy in bench-top testing against a BIO-TEK simulator and a Masimo[®] simulator.
- ✓ Masimo® Board performance has been validated for motion accuracy in human blood studies on healthy adult volunteers in induced hypoxia studies, while performing rubbing and tapping motions at 2 4 Hz at an amplitude of 1 2 cm and a nonrepetitive range of 70 100% SpO₂ against a laboratory co—oximeter and ECG monitor. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.
- Masimo[®] Board performance with Masimo[®] LNOP[®] Neo and Neo Pt sensors has been validated for neonatal motion accuracy in human blood studies on neonates, while moving the neonate's foot at 2 4 Hz at an amplitude of 1 2 cm against a laboratory co–oximeter and ECG monitor. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.
- Masimo[®] Board performance has been validated for no-motion accuracy in human blood studies on healthy adult volunteers in induced hypoxia studies, in the range of 70 100% SpO₂ against a laboratory co–oximeter and ECG monitor. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.