Pronto-7°



Pronto-7 — with rainbow $4D^{\text{TM}}$ technology — for noninvasive and quick spot-checking of total hemoglobin (SpHb®), oxygen saturation (SpO2), pulse rate (PR), and perfusion index (PI)





Your Solution for Hemoglobin Spot-checking

The Pronto-7 may provide the following benefits:

- > Facilitates timely patient assessment
- > Easy-to-use Improves efficiency
- > Expands information available to your clinician at time of assessment





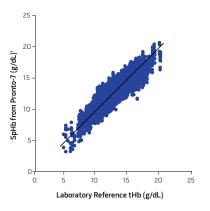
FOUR SIMPLE STEPS

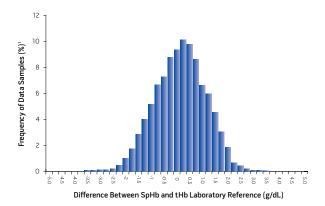






SpHb ANALYTICAL PERFORMANCE





In 11,335 comparisons of SpHb and invasive hemoglobin (tHb) measurements from a laboratory reference device, SpHb accuracy was as follows:*

- > -0.02 g/dL bias
- > 0.99 g/dL A_{RMS} accuracy
- Between 6 12 g/dL, greater than 95% of SpHb readings were within 2 g/dL from the laboratory tHb value
- Between 12 18 g/dL, greater than 95% of SpHb readings were within 2 g/dL from the laboratory tHb value

Please note: These results were obtained in normal sensitivity mode following a specific protocol, in which all Directions for Use were followed and SpHb measurements were compared to validated laboratory reference measurements. Differences in results may be caused by many factors, such as those explained in Masimo's Directions for Use. Some independent researchers have conducted their own testing and obtained similar results, while other researchers have reported larger differences when comparing SpHb measurements to laboratory measurements.

SPECIFICATIONS

Total Hemoglobin (SpHb) Normal sensitivity mode 025 g/dL 0.1 g/dL 0.1 g/dL 4.5-20 g/dL ± 1.0 g/dL @ 1 Std.	Performance		
Total Hemoglobin (SpIPb) Maximum sensitivity mode			
Arterial Daygen Saturation (Sp02). 0-100%. 1% 70% to 100% ± 2% 20 below Rate (PR). 3-0-250 bpm 1 bpm ± 3 bpm 2 bpm 2 bpm 1 bpm ± 3 bpm 2 bpm 1 bpm ± 3 bpm 2 bpm 1 bpm ± 3 bpm 2 bpm 1 bpm			
Product Type Produ			
Product Type			
Product Type			±3 bpm
Type Pulse CO-Oximeter Mode of operation Spot check Spot-check storage capacity 8,000 time-stamped spot-check results Wireless connectivity 802.11 b/g, Bluetooth Reporting modes Print, email, audible Reporting modes Optional Bluetooth thermal printer, USB, 802.11 wireless (PCL 5, 5e, 6), or Bluetooth printing to validated printers Included accessories AC power cord, USB cable and Pronto-7 pouch Electrical Battery power Rechargeable lithium polymer Capacity Approximately 2 hours after full charge Number of spot checks on fully charged battery	Perfusion Index (PI)	%0.01%	
Type — Pulse CO-Oximeter Mode of operation — Spot check Spot-check storage capacity — 8,000 time-stamped spot-check results Wireless connectivity — 802.11 b/g, Bluetooth Reporting modes — Print, email, audible Report formats — Single or multiple spot-checks, device summary Reporting devices — Optional Bluetooth thermal printer, USB, 802.11 wireless (PCL 5, 5e, 6), or Bluetooth thermal printer, USB, 802.11 wireless (PCL 5, 5e, 6), or Bluetooth printing to validated printers Included accessories — AC power cord, USB cable and Pronto-7 pouch Battery power — Rechargeable lithium polymer Capacity — Approximately 2 hours after full charge Mumber of spot checks on fully charged battery — 140 Battery charging time — 5 hours when powered off AC power — 100-240V, 50-60 Hz, 15VA max. Environmental Operating temperature — 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% non-condensing Operating altitude — 500 mbart o 1060 mbar — 1000 ft to 18,000 ft (-304 m to 5,486 m) Prior to using this device, the user should read and understand the Operator's Manual and Directions	Product	Physical Characteristics	
Mode of operation Spot-check Storage capacity. 8,000 time-stamped spot-check results Wireless connectivity. 802.11 b/g. Bluetooth Reporting modes Print, email, audible Report formats Single or multiple spot-checks, device summary Reporting devices Optional Bluetooth thermal printer, USB, 802.11 wireless (PCL 5, 5e, 6), or Bluetooth printing to validated printers Included accessories. AC power cord, USB cable and Pronto-7 pouch Battery power. Rechargeable lithium polymer Capacity Approximately 2 hours after full charge Number of spot checks on fully charged battery 6 hours when powered on Isolation Medical grade AC/DC adapter AC power 100-240V, 50-60 Hz, 15VA max. Environmental Operating temperature 41°Ft o 104°F (5°C to +40°C) Storage temperature 41°Ft o 158°F (-40°C to +70°C) Operating humidity 500 mbar to 1060 mbar -1000 ft to 18,000 ft (-304 m to 5,486 m) Prior to using this device, the user should read and understand the Operator's Manual and Directions	Type Pulse CO-C		5.1" x 2.8" x 1" (13 cm x 7.2 cm x 2.5 cm)
Spot-check storage capacity			
Wireless connectivity. 802.11 b/g. Bluetooth Report fing modes Print, email, audible Report formats Single or multiple spot-checks, device summary Reporting devices Optional Bluetooth thermal printer, USB, 802.11 wireless (PCL 5, 5e, 6), or Bluetooth printing to validated printers AC power cord, USB cable and Pronto-7 pouch Included accessories AC power cord, USB cable and Pronto-7 pouch Capacity Approximately 2 hours after full charge Number of spot checks on fully charged battery	Spot-check storage capacity 8,000 time-stamped spot-chec		
Report formats Single or multiple spot-checks, device summary Reporting devices Optional Bluetooth thermal printer, USB, 802.11 wireless (PCL 5, 5e, 6), or Bluetooth printing to validated printers Included accessories AC power cord, USB cable and Pronto-7 pouch Battery power Rechargeable lithium polymer Capacity Approximately 2 hours after full charge Number of spot checks on fully charged battery 140 Battery charging time 5 hours when powered of 6 hours when powered of 1 Solation Medical grade AC/DC adapter AC power 100-240V, 50-60 Hz, 15VA max. 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 -1000 ft to 18,000 ft (-304 m to 5,486 m) Prior to using this device, the user should read and understand the Operator's Manual and Directions Data Display. Sp02%, pulse rate (PR) beats per minute, SpHb g/dL, PIW, battery level indicator, time, and number of spot-check reple indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, be user should read and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW, battery level indicator, time, and number of spot-check PIW,			
Report formats	Reporting modes	I, audible Display/Indicators	
Reporting devices			se rate (PR) beats per minute, SpHb g/dL,
wireless (PCL 5, 5, 6, 6), or Bluetooth printing to validated printers Included accessories			ndicator, time, and number of spot-check
Electrical Battery power			3.7" resistive touchscreen
Electrical Battery power			
Battery power	'	Compliance	
Capacity	Electrical	EMC compliance	EN60601-1-2, Class B
Number of spot checks on fully charged battery			IEC 60601-1
Battery charging time	Capacity Approximately 2 hours after fu	Il charge Type of protection (battery power) .	Internally powered
Battery charging time	Number of spot checks on fully charged battery	140 Type of protection (AC power)	
Isolation		wered off Degree of protection-sensor	
AC power 100-240V, 50-60 Hz, 15VA max. Environmental Type Direct connect spot-check reusable sensor Small (yellow) 8mm - 12mm (.31"47") diameter Storage temperature40 °F to 158 °F (-40 °C to +70 °C) Operating humidity5% to 95% non-condensing Operating altitude5% to 95% non-condensing500 mbar to 1060 mbar1000 ft to 18,000 ft (-304 m to 5,486 m) Prior to using this device, the user should read and understand the Operator's Manual and Directions General Type Direct connect spot-check reusable sensor Small (yellow)8mm - 12mm (.31"47") diameter47" (diameter47" (diameter47") diameter47" (arge (gray))15mm - 20mm (.63"79") diameter500 mbar to 1060 mbar500 mbar to			
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 1-1000 ft to 18,000 ft (-304 m to 5,486 m) Prior to using this device, the user should read and understand the Operator's Manual and Directions Type Direct connect spot-check reusable sensor Small (yellow) 8mm - 12mm (.31"47") diameter Medium (red) 12mm - 16mm (.47"63") diameter Large (gray) 16mm - 20mm (.63"79") diameter Spot-check replenishment Pre-load or via online download Physical Characteristics Length 47" (119.4 cm) Weight 3.7 oz (105 g)		Idilibow 15 Oction	
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 -1000 ft to 18,000 ft (-304 m to 5,486 m) Prior to using this device, the user should read and understand the Operator's Manual and Directions Small (yellow) 8mm - 12mm (.31"47") diameter Medium (red) 12mm - 16mm (.47"63") diameter Medium (red) 50ml (.31m20mm (.63"79") diameter Spot-check replenishment 9re-load or via online download Physical Characteristics Length 47" (119.4 cm) Weight 3.7 oz (105 g)		Ceneral	
Storage temperature	Environmental	Consult (continue)	
Operating humidity	Operating temperature	JT4() (.)	,
Operating altitude	Storage temperature40 °F to 158 °F (-40 °C to		
Operating altitude	Operating humidity		
-1000 ft to 18,000 ft (-304 m to 5,486 m) Physical Characteristics Length			Pre-load or via online download
Length		5.486 m)	
Prior to using this device, the user should read and understand the Operator's Manual and Directions Weight			
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making to completely understand the patient's condition. Comparisons between SpHb measurements and laboratory diagnostic hemoglobin measurements may be affected by sample type, collection technique, physiological, and other factors.

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^{*}Masimo FDA 510(k) Submission Data using normal sensitivity mode.

Sp02 accuracy has been validated on healthy adult male and female volunteers with light to dark skin pigmentations in the range of 60% - 100% against a laboratory CO-Oximeter. The Pronto-7 and rainbow 40 DC sensors are indicated for adults and pediatrics with the finger sizes of 8 mm – 20 mm in diameter (small sensor: 8 mm – 12 mm, medium sensor: 12 mm – 16 mm, and large sensor: 16 mm – 20 mm). The Pronto-7 SpHb accuracy with rainbow 40 DC sensors was validated in adults and pediatrics greater than 30kg. The SpHb has not been validated with motion or 10 wperfusion. Pulse Rate accuracy has been validated in the range of 25-240 bpm in bench top testing against a Bittel Index's simulator. The variation in accuracy specifications equale hus go grinus 13 tandard. Biotek Index2 simulator. The variation in accuracy specifications equals plus or minus 1 standard deviation which encompasses 68% of the population. Contact Masimo for testing specifications