

Root[®] with O3[®] Regional Oximetry

Available for Adult, Pediatric, Infant, and Neonatal Applications



- > May help clinicians monitor cerebral oxygenation in situations in which peripheral pulse oximetry alone may not be fully indicative of the oxygen in the brain
- > Seamlessly integrates with the Root platform alongside SedLine[®] Brain Function Monitoring for a more complete brain monitoring solution for adult and pediatric patients

O3 Display

Δbase

Displays the difference between current rSO₂ and user-defined baseline

AUC

Area Under the Curve index quantifies the depth and duration of patient-stay below user-defined rSO₂ low alarm limit

ΔSpO₂

Displays the difference between SpO₂ (from the Radical-7®, if applicable) and rSO₂



rSO₂
Tissue oxygen saturation

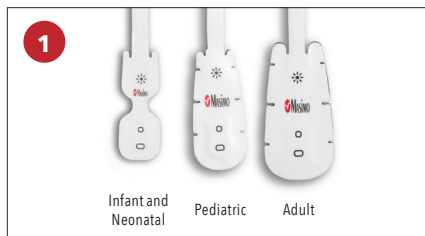
ΔcHbi
Displays an index representing the sum of the ΔO₂Hbi and ΔHHbi components of the rSO₂ calculation

ΔHHbi
Displays an index representing the change in the deoxyhemoglobin component of the rSO₂ calculation

ΔO₂Hbi
Displays an index representing the change in the oxyhemoglobin component of the rSO₂ calculation

O3 Monitoring

Root patient monitoring and connectivity hub offers plug and play monitoring with Masimo Open Connect® (MOC-9®) modules.¹



Apply the appropriate O3 sensors to the forehead:

- > Adult Adhesive Sensor (≥40 kg)
- > Pediatric Adhesive Sensor (≥5 kg and <40 kg)
- > Infant and Neonatal Adhesive Sensor (<10kg)



Connect the O3 sensors to an O3 MOC-9 module (up to two sensors per module)



Connect the O3 MOC-9 module to one of three MOC-9 ports on Root

O3 MOC-9 Module Specifications

PHYSICAL CHARACTERISTICS	ENVIRONMENTAL
Length (including cable)..... 12.1 ft (3.7 m)	Operational Temperature..... 32 to 104° F (0 to 40° C)
Width..... 1.8 in (4.6 cm)	Storage Temperature..... -40 to 158° F (-40 to 70° C)
Thickness..... 0.6 in (1.5 cm)	Operating and Storage Humidity..... 10 to 95%, non-condensing
Weight..... 7.1 oz max (200 g max)	Altitude..... Up to 12,000 ft (3700 m)

O3 Sensor Specifications

PHYSICAL CHARACTERISTICS	ENVIRONMENTAL
Application Site..... Forehead	Operating Temperature at Ambient Humidity..... 41 to 104° F (5 to 40° C)
Wavelengths..... 4	Storage Temperature at Ambient Humidity..... -40 to 140° F (-40 to 60° C)
Adult rSO₂ Sensor Accuracy (ARMS)² ≥40 kg	Storage Humidity..... 15% to 90%, 86 to 140° F (30 to 60° C)
Absolute Regional Oxygen Saturation (rSO ₂)..... 4%	
Trending Regional Oxygen Saturation (rSO ₂)..... 3%	
Pediatric rSO₂ Sensor Accuracy (ARMS)² ≥5 kg and <40 kg	
Absolute Regional Oxygen Saturation (rSO ₂)..... 5%	
Trending Regional Oxygen Saturation (rSO ₂)..... 3%	
Infant and Neonatal rSO₂ Sensor Accuracy (ARMS)²	
Trending Regional Oxygen Saturation (rSO ₂)..... 3%	

¹ In countries with regulatory approval and Root devices with the correct software version ² ARMS accuracy is a statistical calculation of the difference between device measurements and reference measurements. Approximately two-thirds of the device measurements fell within ± ARMS of the reference measurements in a controlled study.

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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