

# Root<sup>®</sup> with O3<sup>®</sup> Regional Oximetry

Available for Adult, Paediatric, 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<sup>®</sup> Brain Function Monitoring for a more complete brain monitoring solution for adult and paediatric patients

## O3 Display

### Δbase

Displays the difference between current rSO<sub>2</sub> and user-defined baseline

### AUC

Area Under the Curve index quantifies the depth and duration of patient-stay below user-defined rSO<sub>2</sub> low alarm limit

### ΔSpO<sub>2</sub>

Displays the difference between SpO<sub>2</sub> (from the Radical-7®, if applicable) and rSO<sub>2</sub>



**rSO<sub>2</sub>**  
Tissue oxygen saturation

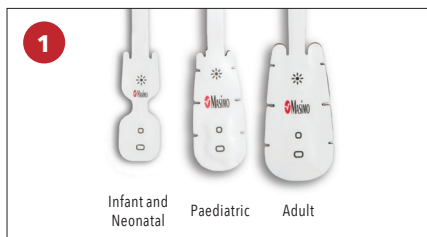
**ΔcHbi**  
Displays an index representing the sum of the ΔO<sub>2</sub>Hbi and ΔHHbi components of the rSO<sub>2</sub> calculation

**ΔHHbi**  
Displays an index representing the change in the deoxyhaemoglobin component of the rSO<sub>2</sub> calculation

**ΔO<sub>2</sub>Hbi**  
Displays an index representing the change in the oxyhaemoglobin component of the rSO<sub>2</sub> calculation

## O3 Monitoring

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



Apply the appropriate O3 sensors to the forehead:

- > Adult Adhesive Sensor (≥40 kg)
- > Paediatric 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

Length (including cable) .....	12.1 ft (3.7 m)
Width .....	1.8 in (4.6 cm)
Thickness .....	0.6 in (1.5 cm)
Weight .....	7.1 oz max (200 g max)

### ENVIRONMENTAL

Operational Temperature .....	32 to 104° F (0 to 40° C)
Storage Temperature .....	-40 to 158° F (-40 to 70° C)
Operating and Storage Humidity .....	10 to 95%, non-condensing
Altitude .....	Up to 12,000 ft (3700 m)

## O3 Sensor Specifications

Application Site .....	Forehead
Wavelengths .....	4
<b>Adult rSO<sub>2</sub> Sensor Accuracy (ARMS)<sup>2</sup></b> .....	≥40 kg
Absolute Regional Oxygen Saturation (rSO <sub>2</sub> ) .....	4%
Trending Regional Oxygen Saturation (rSO <sub>2</sub> ) .....	3%
<b>Paediatric rSO<sub>2</sub> Sensor Accuracy (ARMS)<sup>2</sup></b> .....	≥5 kg and <40 kg
Absolute Regional Oxygen Saturation (rSO <sub>2</sub> ) .....	5%
Trending Regional Oxygen Saturation (rSO <sub>2</sub> ) .....	3%
<b>Infant and Neonatal rSO<sub>2</sub> Sensor Accuracy (ARMS)<sup>2</sup></b> .....	≥5 kg and <40 kg
Trending Regional Oxygen Saturation (rSO <sub>2</sub> ) .....	3%

### ENVIRONMENTAL

Operating Temperature at Ambient Humidity .....	41 to 104° F (5 to 40° C)
Storage Temperature at Ambient Humidity .....	-40 to 140° F (-40 to 60° C)
Storage Humidity .....	15% to 90%, 86 to 140° F (30 to 60° C)

<sup>1</sup> In countries with regulatory approval and Root devices with the correct software version <sup>2</sup> 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.

The O3 System with infant and neonatal sensor is not licensed for sale in Canada.

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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