

# 03<sup>®</sup> Regional Oximetry

Available for Adult, Pediatric, Infant, and Neonatal Applications



**The 03 Regional Oximetry platform has been expanded to allow monitoring of infant and neonatal patients <10 kg**

- > 03 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
- > 03 integrates with Masimo SET<sup>®</sup> pulse oximetry on Root<sup>®</sup>, providing clinicians with expanded visibility of a patient's oxygenation status
- > 3% ARMS<sup>1</sup> trending accuracy specification on neonatal patients
- > With its reduced size and flexible design, the 03 neonatal sensor easily conforms to and allows for ergonomic application on small foreheads



## O3 Display

### $\Delta$ base

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

### $\Delta$ SpO<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

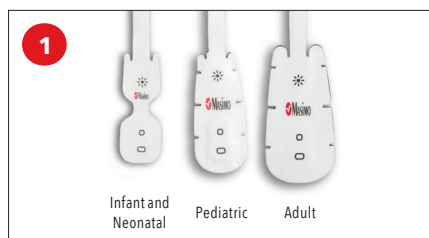
**$\Delta$ cHbi**  
Displays an index representing the sum of the  $\Delta$ O<sub>2</sub>Hbi and  $\Delta$ HHbi components of the rSO<sub>2</sub> calculation

**$\Delta$ HHbi**  
Displays an index representing the change in the deoxyhemoglobin component of the rSO<sub>2</sub> calculation

**$\Delta$ O<sub>2</sub>Hbi**  
Displays an index representing the change in the oxyhemoglobin component of the rSO<sub>2</sub> calculation

## O3 Monitoring

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



Apply the appropriate O3 sensors to the forehead:

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



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

	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)
<b>Neonatal rSO<sub>2</sub> Sensor Accuracy (ARMS)<sup>1</sup></b> ..... <10kg	Storage Humidity..... 15% to 95%, 86 to 140° F (30 to 60° C)
Trending Regional Oxygen Saturation (rSO <sub>2</sub> )..... 3%	
<b>Pediatric rSO<sub>2</sub> Sensor Accuracy (ARMS)<sup>1</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>Adult rSO<sub>2</sub> Sensor Accuracy (ARMS)<sup>1</sup></b> ..... ≥40 kg	
Absolute Regional Oxygen Saturation (rSO <sub>2</sub> )..... .4%	
Trending Regional Oxygen Saturation (rSO <sub>2</sub> )..... .3%	

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

The O3 System with infant and neonatal sensors 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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