

# Root with O3™ Regional Oximetry

Available in Adult and Paediatric Applications



May help clinicians monitor cerebral oxygenation in situations in which pulse oximetry alone may not be fully indicative of the oxygen in the brain

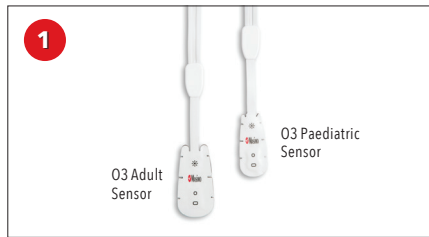
- > In a study of adult volunteers published in *Anesthesia and Analgesia*, researchers found O3 regional oximetry provided absolute root-mean-squared error of 4% and relative root-mean-squared error of 2.1%<sup>1</sup>
- > A more complete brain monitoring solution with the integration of both O3 Regional Oximetry and SedLine® Brain Function Monitoring

## O3 Display



## O3 Monitoring

Every Root offers plug-and-play monitoring with all MOC-9™ modules.<sup>3</sup>



Apply the appropriate O3 Sensors to the forehead:  
 > Adult Adhesive Sensor (≥40 kg)  
 > Paediatric 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 Root MOC-9 Ports.

## 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 Series Sensor Specifications

Application Site..... Forehead	ENVIRONMENTAL
Wavelengths..... 4	Operating Temperature at Ambient Humidity..... 41 to 104°F (5 to 40°C)
<b>Adult rSO2 SpO2 Adhesive Sensor Accuracy (ARMS)<sup>4</sup></b> ..... ≥40 kg	Storage Temperature at Ambient Humidity..... -40 to 140°F (-40 to 60°C)
Absolute Regional Oxygen Saturation (rSO2)..... 4%	Storage Humidity..... 15 to 90%, 86 to 140°F (30 to 60°C)
Trending Regional Oxygen Saturation (rSO2)..... 3%	
<b>Paediatric rSO2 SpO2 Adhesive Sensor Accuracy</b> ..... <40 kg	
Trending Regional Oxygen Saturation (rSO2)..... 3%	

<sup>1</sup> Redford D et al. Absolute and trend accuracy of a new regional oximeter in healthy volunteers during controlled hypoxia. *Anesth Analg*. 2014 Dec;199(6):1315-9.<sup>2</sup> Displayed forehead SpO2 value and trend is for informational use only. <sup>3</sup> If regulatory clearance has been obtained in your country and Root has the relevant software update. <sup>4</sup> ARMS Accuracy is calculated based upon measurement values that are statistically distributed; approximately 68% of the measured values fell within ± the ARMS value when compared to the reference device in a controlled study.

For professional use. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions. The O3 System with paediatric sensor and SpO2 indication has obtained CE Marking. Not available in the U.S.

**Masimo U.S.**  
 Tel: 1 877 4 Masimo  
 info-america@masimo.com

**Masimo International**  
 Tel: +41 32 720 1111  
 info-international@masimo.com

