

O3[®] Regional Oximetry

Available for Adult, Pediatric, Infant, and Neonatal Applications



The O3 Regional Oximetry platform has been expanded to allow monitoring of infant and neonatal patients <10 kg

- > Brain oximetry can help clinicians gain insight into neonatal patient status as “a large share of neonatal pathology is brain associated”¹
- > O3 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
- > O3 integrates with Masimo SET[®] pulse oximetry on Root[®], providing clinicians with expanded visibility of a patient’s oxygenation status
- > O3 provides a 3% ARMS² trending accuracy specification on neonatal patients
- > With its reduced size and flexible design, the O3 neonatal sensor easily conforms to and allows for ergonomic application on small foreheads



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



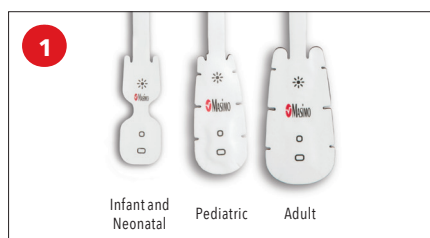
rSO₂
Tissue oxygen saturation

rSO₂ Trend

ΔSpO₂
Displays the difference between SpO₂ (from the Radical-7[®], if applicable) and rSO₂

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
Wavelengths..... 4
Neonatal rSO₂ Sensor Accuracy (ARMS)² <10kg
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%
Adult rSO₂ Sensor Accuracy (ARMS)² ≥40 kg
Absolute Regional Oxygen Saturation (rSO ₂)..... .4%
Trending Regional Oxygen Saturation (rSO ₂)..... .3%
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 95%, 86 to 140° F (30 to 60° C)

¹ Dix et al (2017) Frontiers in pediatrics. *Monitoring Cerebral Oxygenation in Neonates: An Update*. 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. * 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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