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

- 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.
- 3% ARMS® 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

**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 deoxyhaemoglobin component of the rSO2 calculation

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

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O3 Monitoring

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

1. **Connect the O3 sensors to the forehead:**
   - Infant and Neonatal Adhesive Sensor (<10 kg)
   - Paediatric Adhesive Sensor (≥5 kg and <40 kg)
   - Adult Adhesive Sensor (≥40 kg)

2. **Connect the O3 sensors to an O3 MOC-9 module (up to two sensors per module):**

3. **Connect the O3 MOC-9 module to one of three MOC-9 ports on Root:**

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**O3 MOC-9 Module Specifications**

**PHYSICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Infant and Neonatal</th>
<th>Paediatric</th>
<th>Adult</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (including cable)</td>
<td>12.1 ft (3.7 m)</td>
<td>1.8 in (4.6 cm)</td>
<td>0.6 in (1.5 cm)</td>
</tr>
<tr>
<td>Width</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thickness</td>
<td>1.8 in (4.6 cm)</td>
<td>0.6 in (1.5 cm)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>7.1 oz max (200 g max)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ENVIRONMENTAL**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Infant and Neonatal</th>
<th>Paediatric</th>
<th>Adult</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational Temperature</td>
<td>32 to 104° F (0 to 40° C)</td>
<td>40 to 158° F (40 to 70° C)</td>
<td>40 to 104° F (0 to 40° C)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>32 to 104° F (0 to 40° C)</td>
<td>40 to 158° F (40 to 70° C)</td>
<td>40 to 104° F (0 to 40° C)</td>
</tr>
<tr>
<td>Operating and Storage Humidity</td>
<td>70 to 95%, non-condensing</td>
<td>70 to 95%, non-condensing</td>
<td>70 to 95%, non-condensing</td>
</tr>
<tr>
<td>Altitude</td>
<td>12,000 ft (3700 m)</td>
<td>12,000 ft (3700 m)</td>
<td>12,000 ft (3700 m)</td>
</tr>
</tbody>
</table>

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**O3 Sensor Specifications**

**Application Site**
- Forehead

**Wavelengths**
- Red: 670 nm
- Infrared: 890 nm

**Neonatal rSO2 Sensor Accuracy (AARMS)**
- 10 kg: 3%
- 5 kg and <40 kg: 3%

**Paediatric rSO2 Sensor Accuracy (AARMS)**
- 25 kg and <40 kg: 3%
- Absolute Regional Oxygen Saturation (sSDI): 5%
- Trending Regional Oxygen Saturation (sSDI): 3%

**Adult rSO2 Sensor Accuracy (AARMS)**
- ≥40 kg: 3%
- Absolute Regional Oxygen Saturation (sSDI): 4%
- Trending Regional Oxygen Saturation (sSDI): 3%

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

For professional use. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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* In countries with regulatory approval and Root devices with the correct software version.