



The **Medtronic INVOS 5100C** cerebral somatic oximeter is designed to provide accurate monitoring of regional hemoglobin oxygen saturation. The INVOS 5100C offers real-time rSO₂ monitoring for adults, pediatric, and neonatal patients. Clinicians monitor cerebral and peripheral circulations to better manage care in the OR, PICU, NICU, or cardiac cath labs.

Features

- Noninvasive real-time monitoring
- Identify regional oxygenation in adults, pediatrics, and neonatal patients.
- Intuitive interface with an easy-to-use design
- Compact and portable, allowing for flexibility in various clinical settings.



Specifications

Dimensions

Height: 9.5 in (24 cm)
Width: 11.25 in (29 cm)
Depth: 7.5 in (19 cm)
Weight: 10.9 lb (4.95 kg)

General

Range of rSO₂: 15–95 (updated every 5–6 seconds)
Repeatability: Hardware (including sensor) repeatability if within 1 rSO₂ point from unit to unit (measured in vitro).
Alarm Limit Range: High: 20–95; Low: 15–90
Trend Memory: 24 hours at two samples per minute

Outputs

Digital Output: RS-232 communication
USB Port: USB 2.0 flash memory (does not support other USB devices)

Electrical

Power: External AC mains or backup battery
Battery Backup: 12 VDC; approximately 20 minutes
Input Voltage: 100–240VAC
Frequency: 50/60 Hz
Current: 1.0 A – 0.5 A (maximum at 100 and 240 volts respectively)

Environmental Storage / Shipping

Operating Temperature: +60°F to +90°F (+16°C to +32°C)
Shipping/storage Temperature: +32°F to +122°F (0°C to +50°C)
Operating Humidity: 20% to 80%, non-condensing
Shipping/storage Humidity: 15% to 95%, non-condensing
Operating Altitude and Pressure: –1247 ft to +9842 ft (–380 m to +3000 m)
Ambient Pressure: 106 kPa to 70 kPa
Shipping/storage Altitude and Pressure: –1640 ft to +15092 ft (–500 m to +4600 m)
Ambient Pressure: 109 kPa to 52 kPa

