

SenSmart™ Model 8204CA

*Dual Emitter Regional Oximetry
(rSO₂) Sensor*



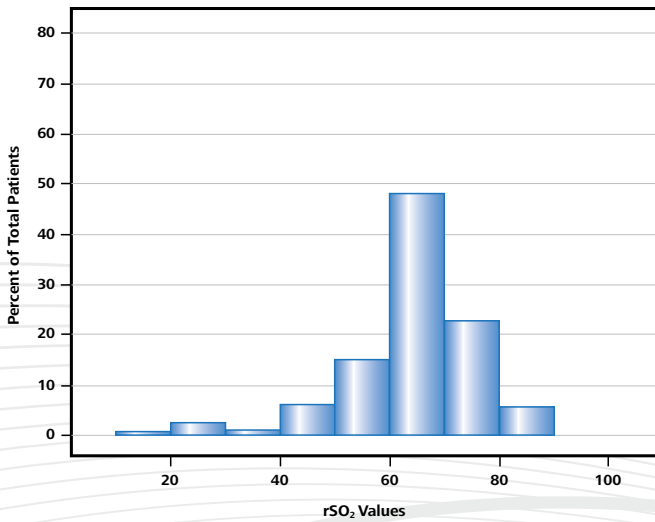
Greater Accuracy and Reliability for Enhanced Patient Outcomes

An advancement in near-infrared spectroscopy (NIRS) regional oximetry, the SenSmart Model 8204CA dual emitter regional oximetry sensor for use with the SenSmart Universal Oximetry (rSO₂/SpO₂) System, offers clinicians absolute accuracy to optimize patient care. SenSmart Technology offers accurate rSO₂ values on all patients...no more guessing when the system doesn't provide a reading, and no more outliers that misrepresent patients' true physiologic condition.^{1,2}

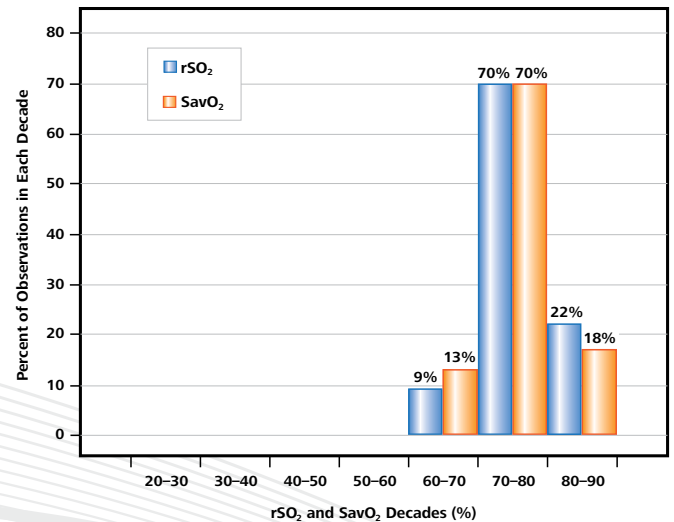
SenSmart™ rSO₂ Technology: Four-Wavelength Optics Greater Accuracy and Reliability through Better Science

SenSmart rSO₂ Technology utilizes four wavelengths of light to measure the balance of oxy- and deoxy-hemoglobin, while compensating for tissue factors that reduce rSO₂ accuracy. The result is highly accurate measurements of patients' true tissue oxygen saturation.

Conventional Two-Wavelength, Single-Emitter NIRS Trending Variability¹



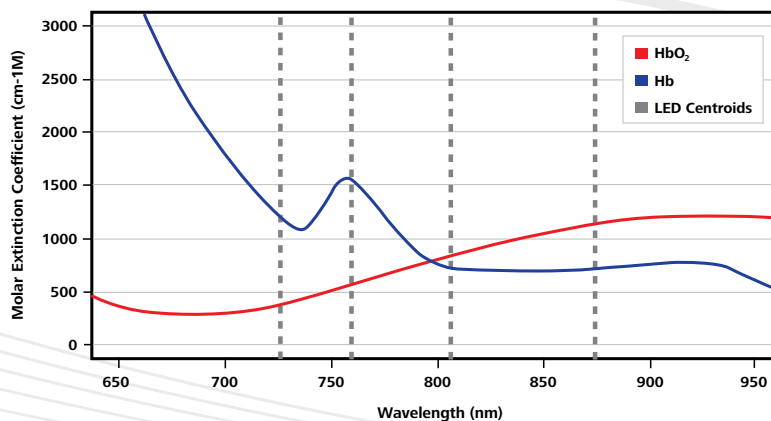
Nonin rSO₂ Technology Four-Wavelength rSO₂ Values Aligned with SavO₂¹



Data rounded up, percentages add up to greater than 100%

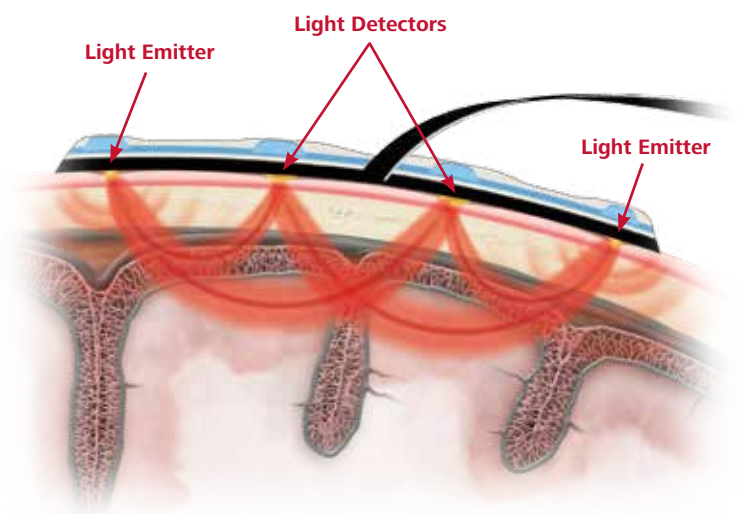
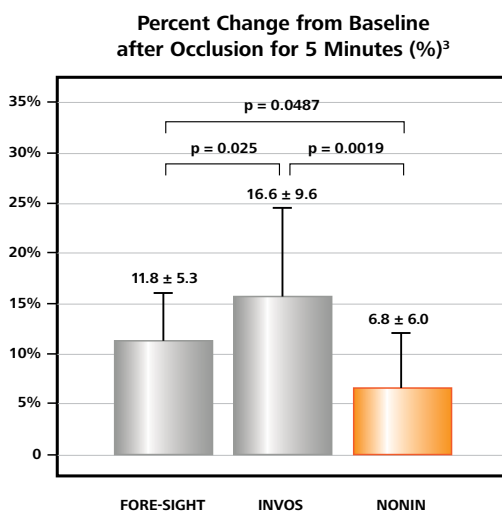
Compared to traditional NIRS trending technology, SenSmart rSO₂ Technology is absolute, providing enhanced accuracy in rSO₂ measurements on all patients, regardless of skin color¹...no more guessing or over-treatment if patients do not read, or read inaccurately.

Nonin SenSmart rSO₂ Technology Four-Wavelength Accuracy¹



SenSmart™ rSO₂ Technology: Dual-Emitter Architecture Effectively Removes Surface Tissue Artifacts

Only the patented SenSmart rSO₂ sensors use dual emitters and dual detectors to provide repeatable cerebral cortex measurements that are minimally affected by intervening tissue or surface effects.³



A recent independent, peer-reviewed study showed in a statistically significant manner that of the three cerebral oximeters, Nonin's rSO₂ technology had the least interference from extracranial tissue.³

Older NIRS technology claimed to be absolute, but clinician confidence suffered when the technology could not read some patients. In a recent series of 50 healthy adults, Nonin's rSO₂ technology captured data on all subjects, regardless of gender, body type or skin color, while 5% of subjects did not read using other technologies.¹



SenSmart™ Model X-100 Universal Oximetry (rSO₂/SpO₂) System

Product Highlights

- **Absolute Accuracy**¹ – 4.1 A_{rms}*
- **Consistent** – Repeatable results for maximum efficiency and time savings⁴
- **Immediate Response** – Near-instant measurements ensure readings from the moment the sensor is placed
- **Real-time Readings** – Sampling rates less than two seconds apart guarantee up-to-date saturation readings



SenSmart™ X-100
Universal Oximetry
(rSO₂/SpO₂) System

Portable and durable, the SenSmart X-100 Universal Oximetry System has six-channel display and the ability to monitor rSO₂ and SpO₂ at the same time.

SenSmart™ Model 8204CA Regional Oximetry (rSO₂) Sensor

Improved rSO₂ Sensor Utility

- 13% smaller footprint than 8004CA
- Quick-connect intermediate cable that can stay connected to signal processor between cases
- Proven, reliable adhesion; even with highly diaphoretic patients
- Nonin dual-emitter absolute accuracy
- Same “over the top” vs side-of-head cable exit angle
- Write-on Sharpie strip on sensor face for time/date of placement (e.g. ICU use)



INT-100
Intermediate Cable

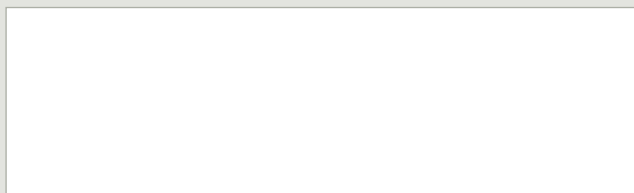
8204CA
Regional Oximetry Sensor

References:

- ¹ Data on file at Nonin Medical, Inc. Plymouth, MN.
² Fischer G et al; J Thorac Cardiovasc Surg 2011; 141:815.
³ Davie SN, Grocott HP. Impact of Extracranial Contamination on Regional Cerebral Oxygen Saturation: A Comparison of Three Cerebral Oximetry Technologies. *Anesthesiology*. 2012; 116(4):834–40.
⁴ Lobbstaal A et al; White Paper 2009; Nonin Medical, Inc.

*Accuracy for SenSmart™ EQUANOX Advance™ Sensor, Model 8004CA only. Pediatric through adult >40 kg.

Authorized Distributor:



Nonin Medical, Inc.
13700 1st Avenue North
Plymouth, MN • 55441-5443 • U.S.A.
Tel: +1.763.553.9968 1.800.356.8874
Fax: +1.763.577.5521
E-mail: info@nonin.com

sensmart.com nonin.com

Nonin Medical B.V.
Prins Hendriklaan 26
1075 BD Amsterdam • Netherlands
Tel: +31 (0)13-79 99 040
Fax: +31 (0)13-79 99 042
E-mail: infointl@nonin.com