

SenSmart[™] Model 8204CA

Dual Emitter Regional Oximetry (rSO₂) Sensor



Greater Accuracy and Reliability for Enhanced Patient Outcomes

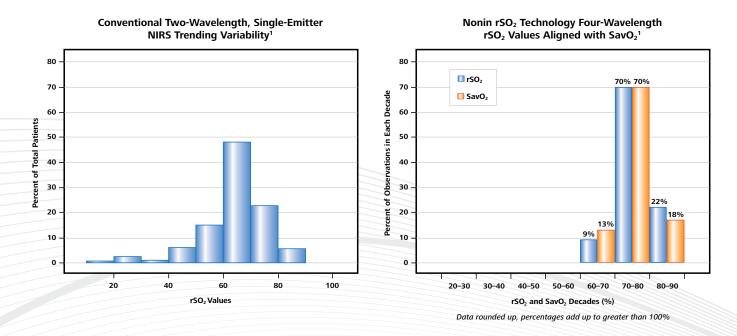
An advancement in near-infrared spectroscopy (NIRS) regional oximetry, the SenSmart Model 8204CA dual emitter regional oximetry sensor for use with the SenSmart Universal Oximetry (rSO₂/SpO₂) System, offers clinicians absolute accuracy to optimize patient care. SenSmart Technology offers accurate rSO₂ 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}



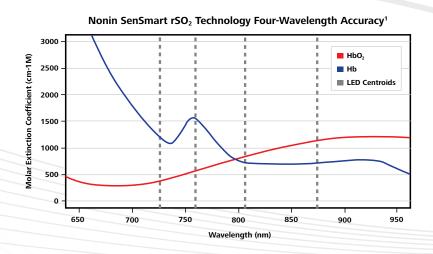


SenSmart[™] rSO₂ Technology: Four-Wavelength Optics Greater Accuracy and Reliability through Better Science

SenSmart rSO_2 Technology utilizes four wavelengths of light to measure the balance of oxyand deoxy-hemoglobin, while compensating for tissue factors that reduce rSO_2 accuracy. The result is highly accurate measurements of patients' true tissue oxygen saturation.

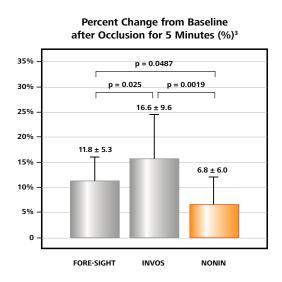


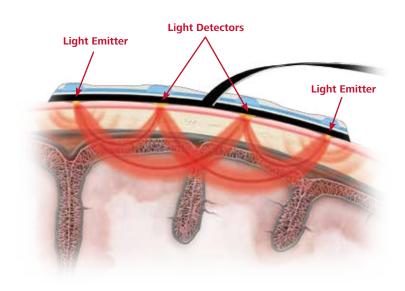
Compared to traditional NIRS trending technology, SenSmart rSO₂ Technology is absolute, providing enhanced accuracy in rSO₂ measurements on all patients, regardless of skin color¹...no more guessing or over-treatment if patients do not read, or read inaccurately.



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 Accuracy¹ 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



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)





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References:

1 Data on file at Nonin Medical, Inc. Plymouth, MN

² Fischer G et al; J Thorac Cardiovasc Surg 2011; 141:815.

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 Lobbestael A et al; White Paper 2009; Nonin Medical, Inc.

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

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