

NoninConnect™ Model 3230

Bluetooth® Smart Wireless Technology

Wireless Finger Pulse Oximeter



Rx Only-US



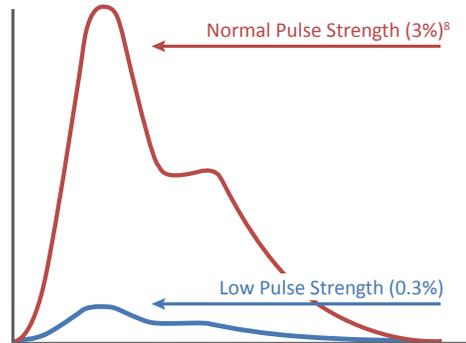
Accuracy and Connectivity Paired with Superior Performance for Challenging Patient Conditions

Making the right decision for patients with respiratory conditions such as Chronic Obstructive Pulmonary Disease (COPD) is often dependent on getting an accurate oxygen saturation (SpO₂) reading. The NoninConnect™ Model 3230 finger pulse oximeter can enable clinicians to remotely (up to 32ft) view their patient's SpO₂ in real-time. And patients can save and send their SpO₂ history via an Apple® device which can aid in proactively identifying issues for early intervention and avoiding re-hospitalization.

NoninConnect Model 3230 – for accuracy in patients

COPD patients often have co-morbidities resulting in a small pulse wave form

- Up to 27% of COPD patients may also have congestive heart failure (CHF).¹
- Poor circulation is a symptom of CHF.²
- COPD patients with CHF often have low pulse strength and a small pulse wave form.



NoninConnect is accurate in patients with as low as 0.3% pulse signal strength.³ A normal arterial pulse wave form showing the systolic peak is in red. NoninConnect can read pulse strength in patients with poor circulation (in blue) even when it is as low as 1/10th the strength of a normal wave form.

Motion and labored breathing can challenge oximeter accuracy

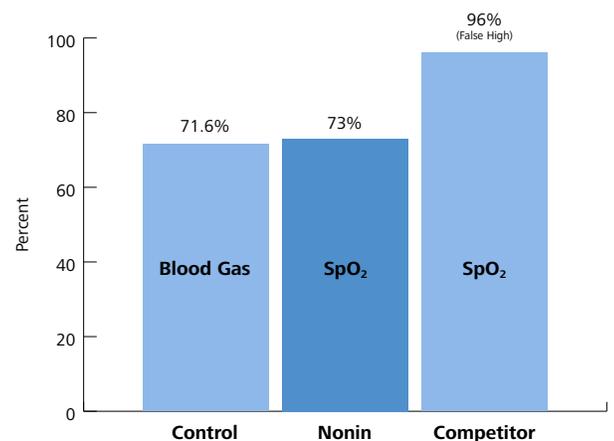
- Motion and labored breathing can create noise artifact which distorts a small pulse wave form.
- The removal of noise artifact is crucial to an oximeter's ability to accurately assess SpO₂ in low perfusion/ pulse strength.

Nonin PureSAT[®] technology provides proven accuracy

- Nonin Medical's clinically proven PureSAT technology utilizes intelligent pulse-by-pulse filtering to achieve its dependable, proven accuracy in low pulse strength.
- **Many low-cost oximeters can't accurately read through noise in a low-strength pulse.³**

Superior accuracy during patient motion

- In a study comparing accuracy in motion, Nonin and a competitor's finger pulse oximeter were tested during motion and compared to arterial blood gas samples.⁴
- Only Nonin's oximeter technology read accurately during patient motion.
- The competitor oximeter gave **false high** SpO₂ readings.
- The competitor was unable to consistently read during patient movement (e.g., extend, flex, twitch, shake, clench, etc.).



¹PHC4-provided hospital discharges between Oct 1, 2007 and Sept 30, 2008. Pittsburgh Regional Health Initiative 2010.

²Mechanisms of Disease: Congestive Heart Failure. Loyola University Medical Education Network. <http://www.meddean.luc.edu/lumen/meded/mech/cases/case4/chf.htm>

³Nonin Medical, Inc. Data on file.

⁴Study conducted in a leading hypoxia research lab. Competitor finger pulse oximeter manufactured by Beijing Choice Electronic Technology Co., LTD. This test is a competitive comparison. There are currently no finger pulse oximeters with accuracy in motion claims cleared by the FDA. Nonin Medical, Inc. Data on file.

⁵Control is Nellcor Tabletop Oximeter.

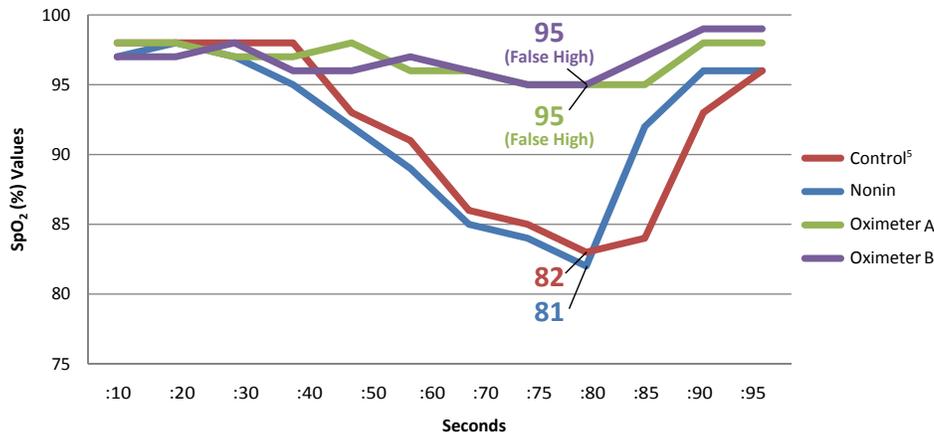
*Hazardous materials are defined by REACH compliance.

with complex co-morbidities

Accuracy during desaturations

Only Nonin's finger oximeter was able to track the subject's desaturation.³

- Nonin PureSAT technology uses pulse-by-pulse filtering to provide accurate SpO₂ measurements.
- The leading competitors use measurement averaging across numerous pulses which can result in delayed or inaccurate readings during saturation changes.



- In the above comparison, Nonin was the only finger pulse oximeter to accurately track the subject's desaturation down to 81-82% and back up to 96% SpO₂. The two competitors registered changes of only 3% SpO₂.

The Nonin Advantage

- ✓ Enables **clinicians** to remotely (up to 32ft) view their patients' SpO₂ in real-time
- ✓ Enables **patients and clinicians** to save their SpO₂ history (via email) using a compatible Apple smart phone or tablet
- ✓ NoninConnect app allows **patients** to share spot check readings with Apple's Health app
- ✓ Can aid in proactively identifying issues for early intervention and avoiding re-hospitalization
- ✓ Provides simplified pairing for vital information exchange over a secure wireless connection
- ✓ Provides SpO₂ and pulse rate readings from small to large fingers, good to poor perfusion and dark to light skin tones
- ✓ Long battery life — up to 2,200 spot checks on two AAA batteries
- ✓ NoninConnect protects against dropping and water spills and allows for thousands of uses
- ✓ 2-year warranty
- ✓ RoHS compliant and environmental friendly with no lead or hazardous materials*



NoninConnect 3230 Compatibility

Download the NoninConnect app to track and save SpO₂ readings via email

- Free app is available on the Apple® iTunes® Store.
- Simply place the NoninConnect on your finger with your Bluetooth Smart device nearby (up to 10m, 32ft).
- SpO₂ readings will be sent to the Bluetooth Smart device and can be emailed as a CSV file or tracked with Apple's Health app.
- Apple devices compatible with NoninConnect: iPhone 4S and newer, iPad 3 and newer, all iPad Air and iPad Minis, iPod Touch 5th edition and newer. Compatible with iOS 8.1 or newer.
- NoninConnect is not compatible with Windows or Android devices or Apple iPad2 devices that use Bluetooth Classic.



Specifications

Dimensions	46mm (1.81") x 69mm (2.72") x 31mm (1.22")
Weight	63 grams with batteries installed
Warranty	2 years
Oxygen Saturation Display Range	0 – 100% SpO ₂
Pulse Rate Display Range	18 – 321 beats per minute (BPM)
Oxygen Saturation Declared Accuracy	
Range (A_{rms}*)	70 – 100% SpO ₂ ±2 digits
Low Perfusion Oxygen Saturation Declared Accuracy	
Accuracy Range (A_{rms}*)	70 – 100% SpO ₂ ±2 digits
Pulse Rate Declared Accuracy	
Range (A_{rms}*)	20 – 250 BPM ±3 digits
Low Perfusion Pulse Rate Declared Accuracy	
Range (A_{rms}*)	40 – 240 BPM ±3 digits
Measurement Wavelengths and Output Power**	
Red	660 nanometers @ 0.8 mW maximum average
Infrared	910 nanometers @ 1.2 mW maximum average
Temperature	
Operating	-5° to +40°C (+23° to +104°F)
Storage/Transportation	-40° to +70°C (-40° to +158°F)***

Humidity

Operating	10 – 95% relative humidity, non-condensing
Storage/Transportation	10 – 95% relative humidity, non-condensing (allow to stabilize)

Altitude

Operating	Up to 12,192 meters (40,000 feet)
Hyperbaric Pressure	Up to 4 atmospheres

Internal Power

Battery	Two 1.5 volt AAA batteries
Operating	2200 spot-checks (25 sec/spot-check), within 10 feet from collector while in a connection
Storage	3 months****

Bluetooth Information

Bluetooth Compliance	Version 4.0 single mode low energy
Operating Frequency	2.4 – 2.4835 GHz

Classifications per IEC 60601-1 / CAN/CSA-C22.2 No. 601.1 / UL 60601-1:

Degree of Protection	Type BF-Applied Part
Mode of Operation	Continuous
Enclosure Degree of Ingress Protection	IP32

NoninConnect 3230 is RoHS compliant and environmentally friendly with no lead or hazardous materials. REACH compliant December 2012 revision.

This product complies with ISO 10993-1, Biological evaluation of medical devices – Part 1: Evaluation and testing.

*±1 A_{rms} represents approximately 68% of measurements.

**This information is especially useful for clinicians performing photodynamic therapy.

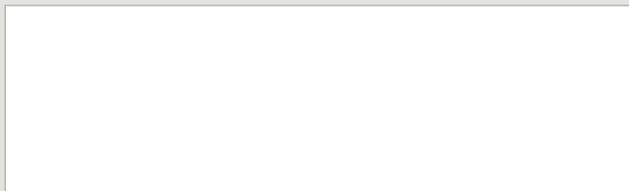
*** When the oximeter is transferred from a non-operating temperature/humidity condition, allow one hour of stabilization to operating temperature/humidity specifications prior to use.

****If the device will not be used for 30 days or more, remove the batteries to prevent battery leakage.

Specifications are subject to change without notice.

Contact Regulatory@nonin.com for regulatory status.

Authorized Distributor:



©2015 Nonin Medical, Inc. All trademarks are the property of Nonin Medical, Inc. unless otherwise noted. Bluetooth® and the Bluetooth logo are registered trademarks of Bluetooth SIG, Inc. P/N 10708-001-02

Nonin Medical, Inc.

13700 1st Avenue North
Plymouth, MN • 55441-5443 • U.S.A.
Tel: +1.763.553.9968 800.356.8874
Fax: +1.763.577.5521
E-mail: info@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

nonin.com

