



# PureLight<sup>®</sup>

SpO<sub>2</sub> Sensors

## The PureLight Principle

Accurate and dependable SpO<sub>2</sub> readings start with PureLight Sensors



### Red and infrared light sources (LEDs) are essential to pulse oximetry sensors

- ✓ The red LED measures deoxygenated hemoglobin
- ✓ The infrared LED measures oxygenated hemoglobin

### Common red LEDs may produce a secondary spectrum emission (contamination)

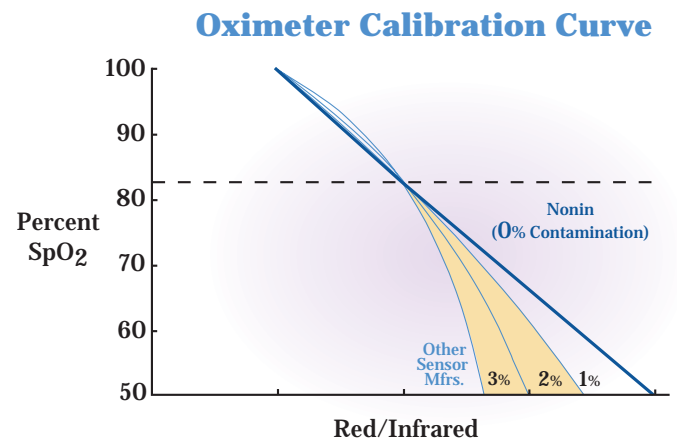
- ✓ Contamination impacts the oxygenated hemoglobin measurement
- ✓ LED contamination shifts the oximeter's calibration curve resulting in inaccurate SpO<sub>2</sub> readings below 80%

### PureLight red LEDs only produce the pure light spectrum

- ✓ PureLight LEDs do not cause a shift in the oximeter's calibration curve at SpO<sub>2</sub> levels below 80%
- ✓ Nonin PureLight Sensors eliminate variations in readings from patient-to-patient and sensor-to-sensor

## Product Highlights

- ✓ **Reliable** - Consistent readings from sensor-to-sensor
- ✓ **Accurate** - PureLight LEDs in every sensor
- ✓ **Functional** - Various options for multiple site applications
- ✓ **Versatile** - Spot checking, short-term and extended monitoring
- ✓ **Comprehensive** - Full range of sizes for all patients
- ✓ **Comfortable** - Trim design, great fit & latex-free



✓ *Where People Make the Difference*



## Reusable SpO<sub>2</sub> Sensors

Nonin has designed an array of PureLight reusable sensors – available for patients of all sizes (adult, pediatric, & infant) and clinical presentations. The 8000 Series of reusable sensors are ideal for short-term monitoring, stress testing and spot checks – any situation where the risk of cross-contamination is low. A comfortable sensor, each is designed for a specific application and is form-fitted to decrease ambient light interference.



**8000AP Pediatric Finger Clip**  
(10 - 40 kg / 22 - 88 lbs)



**8000AA Adult Finger Clip**  
(> 30 kg / > 66 lbs)



**8000Q Ear Clip**  
(> 40 kg / > 88 lbs)

### Reusable SpO<sub>2</sub> sensors:

- ✓ Proven PureLight LEDs for accuracy at critical SpO<sub>2</sub> levels
- ✓ Comfortable, self-aligning grips to assure proper placement
- ✓ Quick and easy application
- ✓ Variety of finger, earlobe and forehead sensors for various monitoring applications



**8000R Reflectance**  
(> 30 kg / > 66 lbs)



**Reflectance Sensor Holder**  
(10 pack w/ 20 adhesive collars)

- ✓ Easy-to-clean for convenience and reliability
- ✓ Cost-effective and durable, backed with our warranty

Sensor Type	1 meter	2 meter	3 meter	Extension Cable*
8000AP	✓		✓	✓
8000AA	✓	✓	✓	✓
8000Q	✓			✓
8000R	✓			✓

\*Optional Reusable Sensor Extension Cables are available in 1m, 3m, 6m and 9m lengths.

## Reusable Flex SpO<sub>2</sub> with FlexiWrap

Nonin's Flex Sensor System combines of a disposable sensor with the economic reusable Flex Sensor, made of a durable matching disposable FlexiWrap adhesive ideal for numerous applications including studies. Available in sizes to fit neonatal is a great value for patient monitoring FlexiWraps (additional packages of 25

### Reusable Flex SpO<sub>2</sub> sensor

- ✓ Proven PureLight LEDs for accuracy at
- ✓ Durability for repeated use
- ✓ Optimal performance in motion situations
- ✓ Cost-effective convenience
- ✓ Simple cleaning for ease-of-use
- ✓ Trim shape for comfort and contoured fit

Sensor Type	1 meter	2 meter
8000J	✓	
8008J	✓	
8001J	✓	

\*Optional Reusable Sensor Extension Cables

### Adult Flex System



**8000J Adult Flex Sensor**



**8000JFW Adult FlexiWrap**



**Adult Flex System**  
(> 20 kg / > 44 lbs)

### Infant Flex System



**8008J Infant Flex Sensor**



**8008JFW Infant FlexiWrap**

# s – Simply Brilliant

## SpO<sub>2</sub> Sensors FlexiWrap®

the convenience and performance  
 ics of a reusable sensor. The  
 le silicone, is secured with a  
 ive. This hybrid sensor system is  
 ling extended monitoring and sleep  
 es to adults, the Flex Sensor System  
 Each sensor is packaged with 25  
 may be purchased separately).

### s with FlexiWrap:

critical SpO<sub>2</sub> levels

ons

it

1 meter	3 meter	Extension Cable*
	✓	✓
		✓
		✓

are available in 1m, 3m, 6m and 9m lengths.

### Flex System



FW Infant  
dWrap

Infant Flex System  
(2 - 20 kg / 4 - 44 lbs)

### Neonate Flex System



8001J Neonate  
Flex Sensor

8001JFW Neonate  
FlexiWrap

Neonate Flex System  
(< 2 kg / < 4 lbs)

## Disposable SpO<sub>2</sub> Sensors

Nonin's Flexi-Form® II sensors are ideal for extended monitoring or situations where the risk of cross-contamination is high. The disposable Flexi-Form II sensors feature an inclusive cable, sensor and adhesive wrap to provide patients ultimate comfort, while providing a disposable solution at an attractive price. Each sensor has a simple placement illustration and an attached over-wrap that acts as a stabilizer for securing the sensor in position. These single-use sensors are available for patients of all sizes.

### Disposable SpO<sub>2</sub> sensors:

- ✓ Proven PureLight LEDs for accuracy at critical SpO<sub>2</sub> levels
- ✓ Self-adhesive for extended monitoring and security
- ✓ Easy to apply for clinicians or patients
- ✓ Trim shape for comfort and contoured fit
- ✓ Can be cold cycle (EtO) sterilized
- ✓ Assortment pack (7000D) includes 4 adult, 2 pediatric, 2 infant, and 2 neonate

Sensor Type	1 meter	2 meter	3 meter	Extension Cable*
7000A	✓			✓
7000P	✓			✓
7000I	✓			✓
7000N	✓			✓

\*Optional Reusable Sensor Extension Cables are available in 1m, 3m, 6m and 9m lengths.



7000A Adult  
Flexi-Form II  
(> 30 kg / > 66 lb)



7000P Pediatric  
Flexi-Form II  
(10 - 40 kg / 22 - 88 lbs)



7000I Infant  
Flexi-Form II  
(2 - 20 kg / 4 - 44 lbs)



7000N Neonatal  
Flexi-Form II  
(< 2 kg / < 4 lbs)

## A Rugged Performer



Nonin's Reusable Sensors are perfect for a number of applications where spot checks or short-term monitoring is needed. These durable, quality sensors are designed with precision performance and comfort in mind.

## Perfect For Overnight Monitoring

The Flex Sensor Systems are a great solution when extended monitoring is required, such as an overnight study. The Flex sensors are secured with the disposable FlexiWrap® adhesives, providing a comfortable fit without unwanted tightness.



## Performance In An Instant



Flexi-Form® II disposable sensors are ideal for emergency situations. Sensors can be easily secured for transport and monitoring on-the-go. EMS personnel particularly like the fact that these sensors perform even in bright light situations.

## Sensor Cable Extensions

UNI-RA-O  
Convenient 6"  
right angled  
adapter



Sensor  
Extension Cable  
Available in a  
variety of lengths  
(1, 3, 6 or 9m)



Please contact your authorized distributor for more information.



## Basic Tips for Sensor Selection

Application Criteria	Evaluation Points
<b>Physical Characteristics</b>	<b>General Age of Patient</b> ✓ Infant, Adolescent, Adult <b>Desired Application Site</b> ✓ Finger, Hand, Toe, Foot, Ear, Forehead <b>Patient's Physical Size</b> ✓ Example: A 12 lb. newborn may require an infant sensor rather than a neonatal size
<b>Monitoring Duration</b>	<b>Spot Check</b> ✓ Routine Vitals ✓ Emergency Evaluation <b>Short-Term</b> ✓ Office Procedure ✓ Patient Transport <b>Extended</b> ✓ Therapeutic Assessment ✓ Sleep Study
<b>Amount of Movement</b>	<b>Low Activity</b> ✓ Anesthetized, Unconscious <b>Limited Activity</b> ✓ Restraints, Tremors <b>General Activity</b> ✓ Ambulatory <b>High Activity</b> ✓ Exertion Testing
<b>Avoid Cross-Contamination</b>	<b>Disinfect</b> ✓ Wipe Sensor with Isopropyl Alcohol <b>Sterilize</b> ✓ Cold Cycle, Ethylene Oxide (EtO)



## Your Partner of Choice



With over 18 years of experience and dedication to the design and support of noninvasive monitoring devices, Nonin has helped many medical professionals meet clinical and economic objectives. Trusted by clinicians worldwide, countless tests are performed every day on thousands of Nonin pulse oximeters in more than 125 countries. Nonin's dedication to technological leadership, precision manufacturing and uncompromised customer support ensures quality products and service you expect.



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