

Instructions for Use—English





Model 8000FC Adult/Pediatric Fiber Optic Pulse Oximeter Sensor

Caution:

Federal law (USA) restricts this device to sale by or on the order of a licensed practitioner

The Nonin Model 8000FC Adult/Pediatric Fiber Optic Sensor is intended for use with Nonin's Fiber Optic Pulse Oximeters, for spot-checking or continuous monitoring of functional oxygen saturation of arterial hemoglobin (SpO $_2$) and pulse rate in a Magnetic Resonance (MR) environment.

Note: Because the fiber optic sensors and cables contain no conductive components, they can safely be placed on the patient's finger while inside an MR (magnetic resonance) environment.

- Do not use a damaged sensor.
 As with all medical equipment, carefully route patient cables and connections to reduce the possibility of entanglement or strangulation
- The fiber cable for the sensor is extremely sensitive and must be handled with caution at all times
- The connector that attaches to the monitor must be kept outside the 200 Gauss line of the MR field and firmly secured to the monitor

<u> Cautions:</u>

- The sensor might not work on cold extremities due to reduced circulation. Warm or rub the finger to increase circulation, or reposition the sensor. Do not gas sterilize or autoclave this sensor.
- Inspect the sensor application site at least every 6 to 8 hours to ensure correct sensor alignment and skin integrity. Patient sensitivity to sensors and/or adhesive strips may vary due to medical status or skin condition.

 Do not immerse the sensor in any liquids.
- Do not use caustic or abrasive cleaning agents on the sensor.
 Follow local, state and national governing ordinances and recycling
- instructions regarding disposal or recycling of the device and device components, including batteries. Use only Nonin-approved battery packs. In compliance with the European Directive on Waste Electrical and Electronic Equipment (WEEE) 2002/96EC, do not dispose of this product as unsorted municipal waste. This device contains WEEE materials; please contact your distributor regarding take-back or recycling of the device. If you are unsure how to reach your distributor, please call Nonin for your distributors contact
- A functional tester cannot be used to assess the accuracy of a pulse oximeter
- This device is designed to determine the percentage of arterial oxygen saturation of functional hemoglobin. Factors that may degrade pulse oximeter performance or affect the accuracy of the measurement include the following: · venous pulsations
- · excessive ambient light
- excessive motion
- electrosurgical interference
 blood flow restrictors (arterial catheters, blood pressure cuffs, infusion lines, etc.)
- moisture in the sensor
- improperly applied sensorincorrect sensor typepoor pulse quality

- cardiogreen and other intravascular dyes
 - carboxyhemoglobin methemoglobin

concentrations

- dysfunctional hemoglobin artificial nails or finger nail polish a sensor not at heart level

anemia or low hemoglobin

Symbols:

Definition of Symbol
Follow Instructions for Use
Caution!
CE Marking indicating conformance to EC Directive No. 93/42/EEC concerning medical devices
Lot Number
MR Conditional Symbol
Protected against vertically falling water drops when enclosure is tilted up to 15 degrees and ingress of solid foreign objects greater than or equal to 2.5 mm in diameter per IEC 60529.

Applying the Model 8000FC Fiber Optic Sensor

- The preferred site for the sensor application is the index finger (not the thumb) of adult and pediatric patients. For patients with large fingers, the ring finger or little finger may be used
- Before applying the sensor, ensure the nail is trimmed to allow the fingertip to rest against the sensor strap.
- Vertically align the sensor as illustrated (Figure 1). Avoid any configuration that would allow emitted light to bypass the fingertip.
- Secure the sensor with Nonin Model 8000FW Sensor Wrap. Model 8000FW is designed to block the ambient light. Other wraps or tapes are not

Note: If the sensor is not positioned properly, light may bypass the tissue and result in SpO2 inaccuracies. Proper sensor application is critical for optimal

Note: Use care when applying or removing the 8000FW medical tape to, and removing it from, the Model 8000FC sensor. The sheathing material protecting the glass fibers (located in the area between the dotted lines in Figure 2) is fragile and can easily be damaged.

Verifying Operation

recommended

Allow at least 1 minute for the system to stabilize after the sensor has been properly applied and the patient is at rest. After stabilization, verify that the system is operating properly by:

- · Ensuring that the sensor is applied to the finger as described above Observing the Pulse Strength Bar Graph is blinking green at a rate and rhythm corresponding to the patient's pulse for at least 3 minutes.
- Observing that the SpO₂ and pulse rate displays are stable and displaying values expected for the patient.
- If the following are observed, reposition the sensor or move the sensor to a different finger, following steps 1 – 4 of Applying the Sensor
- The Pulse Strength Bar Graph is blinking yellow or red.
- The Pulse Strength Bar Graph, pulse rate display, or ${\rm SpO}_2$ display are functioning inconsistently.

If unable to verify operation, do not use the pulse oximeter. Contact Nonin for assistance

Cleaning the Reusable Sensor

⚠ Cautions:

- Clean the sensor before applying it to a new patient.
- Unplug the sensor from the pulse oximeter before cleaning.
 Do not sterilize, autoclave, or immerse the sensors in liquid of any kind. Do not
- pour or spray any liquids into the sensor.
 Do not use caustic or abrasive cleaning agents on the sensors. Do not use cleaning agents containing ammonium chloride.
- 1. Clean the sensor with a soft cloth dampened with a mild detergent or a 10% bleach/90% water solution (household bleach [containing less than 10% sodium hypochlorite]). Ensure that all tape residue is removed.
- 2. Allow the sensor to dry thoroughly before reusing. Note: To minimize cable deterioration when cleaning the cable, gently wipe away from the plug end towards the sensor end.

Accuracy

SpO₂: 70 to 100% ±2 digits (A_{rms}*). Additional accuracy and performance information can be found in the respective pulse oximeter manual. Pulse Rate Accuracy: ±3 digits (BPM)

ns represents approximately 68% of mea

Measurement Wavelengths and Output Power** Red:

660 nanometers @ 0.8 mW maximum average Infrared: 910 nanometers @ 1.2 mW maximum average ** This information is especially useful for clinicians performing photodynamic therapy

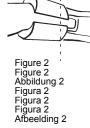
Compliance

This product complies with ISO 10993-1. Not made with natural rubber latex.

Warranty

The 8000FC is warranted for 90 days from delivery

Figure 1 Figure 1 Abbildung 1 Capteur Sensor Figura 1 Figura 1 Sensore Sensor Figura 1 Sensor Afbeelding 1 Sensor



nonin.com

infointl@nonin.com (Europe)