

Frequently Asked Questions

SenSmart™ Model X-100 Universal Oximetry System

Q: What is the SenSmart Universal Oximetry System?

A: The SenSmart System is the first system to measure regional oximetry (rSO₂) and pulse oximetry (SpO₂)/pulse rate values. The SenSmart processing platform is designed to accommodate more parameters in the future. The system maximizes ease of use as the menus and configurations are very user-friendly. The Signal Processors are miniaturized to stay out of the way and increase usability in a variety of clinical environments.

Q: Can I use either the SenSmart EQUANOX™ 3-wavelength 8003CA or 4-wavelength 8004CA Sensors? If I am using a mixture of the 3- and 4-wavelength sensors (trending and absolute respectively), how do I know which is which on the display?

A: Yes, you can use either sensor. On the SenSmart Monitor, the channel(s) using the 3-wavelength trending sensor (8003CA) will show "T" for trending after the rSO₂ designation in the display's channel box (i.e., rSO₂-T).

Q: Will existing 7600 System EQUANOX rSO₂ Sensors work in SenSmart Signal Processors?

A: 7600 System EQUANOX rSO₂ Sensors are functionally equivalent to SenSmart rSO₂ Sensors. The 7600 System EQUANOX rSO₂ Sensor relies on friction fit to stay connected to the Signal Processor as it currently does to the blue 7600PA pod. The 7600 System EQUANOX sensor connector overmold does not include the SenSmart overmold raised plateau that secures the SenSmart Sensor connectors with the SenSmart Signal Processor's clear plastic Sensor Lock. [NOTE: When using 7600 EQUANOX sensors with the SenSmart Signal Processors, care should be taken to insert with the "Nonin" side of the 7600 sensor connector facing upward to match the white arrow on the SenSmart Signal Processor. Damage to the SenSmart Signal Processor can occur by forcing a 7600 sensor into it upside down.]

Q: Will a SenSmart rSO₂ Sensor work with Nonin's EQUANOX Model 7600 Monitor and blue 7600PA pods?

A: Yes, although the connector overmold looks different on SenSmart Sensors, the SenSmart Sensors are functionally equivalent to 7600 System rSO₂ Sensors. However, it should be noted that the 8003CA 3-wavelength Sensor will not show the label "rSO₂-T" (trending designation) on the 7600 display.

Q: Do the SenSmart 8003CA, 8004CA, 8004CB, and 8004CB-NA Sensors apply to the same patients as those used on the EQUANOX 7600 Regional Oximetry System?

A: Yes.

Q: Does it matter in what order I plug Signal Processor cables into the Hub?

A: No. The display will read the signal coming from the Signal Processor and display the channels in the correct order identified by the Signal Processor channel, regardless of the order the Signal Processors are plugged into the Hub.

Q: Do I have to use a minimum number of channels?

A: No. You can use as few or as many channels as you wish, up to six. The Monitor will automatically change to a two-, four-, or six-channel display based on the number of Signal Processors you have plugged in.

Q: What happens if I use two Signal Processors using the same designated channel numbers?

A: Neither channel will display any values and the Monitor will display that duplicate Signal Processors are connected.

Q: Can I display each channel's sensor anatomical site on the Monitor?

A: Yes, you have a wide range of site names in the built-in menu, and you can also create a custom anatomical site label.

Q: Can I stream and view the case data live on another monitor or computer?

A: You can interface the rSO₂ values and trend lines to a Philips® IntelliVue® monitor using Philips’ IntelliBridge® module. You can also download the case data after the case to a computer using the download software provided for your computer. At the present time there is no way to connect the display view to another display other than a Philips monitor.

Q: Will any Nonin SpO₂ sensor work with the SenSmart System?

A: No. Only the SenSmart 8100S(X) Soft Reusable Sensors (three sizes) will work.

Q: Is there a limit to how many SpO₂ or rSO₂ sensors can be used on the system?

A: Understanding that there is a maximum of six channels on the system, there is no limit to the number of SpO₂ or rSO₂ sensors that can be used to take up those six channels.

Q: How much memory does the Monitor have to store cases?

A: 840 hours when two channels are used; 420 hours when four channels are used; 280 hours when six channels are used.

Q: Can more than one extension cable be used on the same channel?

A: No. If you wish to use an extension cable on a channel, you must choose between a 1 meter or 2 meter cable. Additional extension cables are available as accessories. You can use one extension cable per channel for as many channels as you like. Two one-meter extension cables are provided with the system.

Q: Can I connect a single channel directly to the Monitor without using the hub cable?


A: Yes.

Q: Is the clear plastic sensor lock on the Signal Processor removable for cleaning? Will the sensor work without the lock in place?

A: The clear plastic sensor lock is easily removed and replaced. The sensors are designed to have a reasonable friction fit and positive connection even without the sensor lock. Additional bags with two sensor locks/bag are available to replace lost sensor locks.

Q: How do I decide what size reusable SpO₂ sensor is appropriate?

A: Digit thickness.

SenSmart SpO ₂ Soft Sensor Size	Digit Height (thickness)	
Model 8100SL (Large)	12.5 – 25.5 mm (0.5 – 1.0 in.)	
Model 8100SM (Medium)	10.0 – 19.0 mm (0.4 – 0.75 in.)	
Model 8100SS (Small)	7.5 – 12.5 mm (0.3 – 0.5 in.)	

Q: Can I have rSO₂ and SpO₂ appear on the same trendline graph on the display?

A: No, but they can be graphed together after download using the SenSmart™ Download Software provided with your system.

Q: What is the warranty on this system?

A: Three years on all parts except for the battery, which is one year, and the SenSmart 8100S(X) SpO₂ Soft Sensors, which are two years. There is no warranty on the disposable sensors.

Q: Is the data output HIPAA compliant?

A: Yes.