Instruments and sensors containing Masimo SET technology are identified with the Masimo SET logo. Look for the Masimo SET designation on both the sensors and monitors to ensure accurate pulse oximetry when needed most.

Masimo Corporation  40 Parker  Irvine, California  92618  Tel 949-297-7000  Fax 949-297-7101  www.masimo.com

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Overview

Masimo’s broad range of pulse oximeter sensors are designed to meet your clinical needs regardless of the setting—operating room, emergency room, post anesthesia care unit, critical care units, labor and delivery, transport, outpatient surgery, Sleep lab, exercise physiology lab and more.

When used with Masimo SET pulse oximeters, both Masimo SET LNOP® (Low Noise Optical Probe) sensors and the Masimo SET LNCS® (Low Noise Cabled Sensor, pronounced “links”) let you harness the power of Masimo Signal Extraction Technology—the first pulse oximetry technology that provides accurate, reliable clinical data during periods of patient motion and low perfusion.

The complete line of LNOP and LNCS sensors are described for you in this brochure. For more detailed information on which sensors are right for your particular application, contact your Masimo representative or visit us on the web at www.masimo.com.
Masimo LNOP adhesive sensors are our most advanced and durable single-patient pulse oximetry sensors. They feature a remarkably low noise floor with a very high signal to noise ratio, extraordinary shielding, and a recessed photodetector, allowing them to offer the patented ability to read accurately through motion, low perfusion, and other difficult challenges when used with Masimo SET. The LNOP Adult and Pediatric sensors come in two types of tape material: a clear tape similar to that of Nellcor® sensors, and a unique brown colored, thicker, durable tape. LNOP adhesive sensors are available in a wide assortment of designs and sizes for your patients’ specific needs.
Masimo offers a broad line of reusable sensors that provide flexibility in application, including adult and pediatric digit clip sensors, ear or forehead sensors for central core monitoring, and the LNOP YI Multi-site sensor with a variety of wraps. In addition to patented industry-leading technology that delivers unparalleled performance, especially when patients are moving or have low perfusion, LNOP reusable sensors have been engineered for the superior combination of comfort, fit, and durability. Further, this hallmark design has improved moisture resistance, and is resistant to electro-surgical interference and noise from bright ambient light. As with all Masimo SET solutions, the end result is the identification of true alarms and minimization of false alarms. LNOP sensors are compatible with all Masimo SET oximeters.
Masimo’s LNOP SofTouch line of sensors is designed to be used whenever skin sensitivity issues are a concern, such as with extremely low birth weight infants. Masimo SofTouch sensors incorporate soft foam and VelAid™ hook and loop attachment wraps that come in a variety of configurations to address a wide range of clinical uses.
In addition to pioneering read-through motion and low perfusion pulse oximetry, Masimo was the first to introduce other breakthrough designs, including sensors with built-in intelligence. Below are two specialty sensor lines featuring this sophisticated technology.

**LNOP Newborn® Sensors**

The LNOP Newborn sensor is specifically designed with newborn resuscitation in mind. When the Newborn sensor is connected to Masimo-equipped technology version 4.1.0.1 or higher, it automatically enables the fastest SpO2 and pulse rate readings at maximum sensitivity. In addition to providing optimal performance, the Newborn sensor allows quick application. With a unique combination of a VelAid™ SofTouch® hook-and-loop attachment, and adhesive emitter and detector strip, the sensor stays secure even when the site is wet. The Masimo LNOP Newborn sensor allows clinicians to focus their attention on their patients instead of using valuable seconds configuring the monitor to deliver the performance they need during critical situations.

**LNOP Blue® Sensor**

Neonatal, infant, and pediatric patients with congenital heart disease have unique physiology, which has frequently made it impossible for clinicians to obtain reliable pulse oximetry readings. This limitation has impacted the clinicians’ ability to rely on continuous SpO2 measurements to determine the precise cardiac medication and ventilatory management these patients require. After extensive research and development, Masimo introduced LNOP Blue, the first and only adhesive sensor proven accurate on pediatric patients with congenital heart disease with saturations as low as 60%. LNOP Blue provides clinicians with the reliable, continuous pulse oximetry they need to better manage the cardiac medications and ventilation therapy of these critical patients.

Different patient cables are available to connect LNCS or LNOP sensors to a variety of pulse oximeters and multi-parameter monitors equipped with Masimo SET. Adapter cables are also available for monitors with conventional technology, allowing standardization on sensors throughout a facility with a mixed inventory of instruments.

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Masimo LNCS sensors maintain the quality, reliability and accuracy expected of the Masimo SET family, with industry-leading noise shielding first introduced in Masimo’s LNOP line. The LNCS line has the accuracy and reliability you’ve come to expect from Masimo, especially in cases of patient motion and/or low perfusion. As with all Masimo SET solutions, LNCS allows for the accurate detection of more true alarms while minimizing false alarms to improve clinician effectiveness and patient outcomes. LNCS sensors can also connect to devices with conventional technology, allowing a facility with a variety of monitors to standardize on one sensor line.
Masimo’s LNCS line of sensors offers a full array of reusable options for various application sites. In addition to patented, industry-leading technology that delivers unparalleled performance, especially when patients are moving or have low perfusion, LNCS reusable sensors have been engineered for the optimal combination of comfort, fit and durability. Further, this latest design has increased moisture resistance and continues to resist electro-surgical interference and noise from bright ambient light. As with all Masimo SET solutions, the end result is the identification of true alarms and minimization of false alarms. LNCS sensors can also connect to devices with conventional technology, allowing a facility with a variety of monitors to standardize on one sensor line.
Different patient cables are available to connect LNCS or LNOP sensors to a variety of pulse oximeters and multi-parameter monitors equipped with Masimo SET. Adapter cables are also available for monitors with conventional technology, allowing standardization on sensors throughout a facility with a mixed inventory of instruments.
Clinical Validation of Masimo SET®

Accurate monitoring when you need it most.®

While clinical literature often reflects an even distribution of opinion on different medical issues and technologies, a review of the independent literature on pulse oximetry overwhelmingly demonstrates the superior performance of Masimo SET pulse oximetry. The graphic (right) demonstrates the distribution of conclusions when Masimo SET is compared head-to-head with Next Generation and conventional pulse oximetry. Note that in 46 independent and objective comparative studies, the researchers conclude that Masimo SET is superior to all other Next Generation pulse oximetry. In the 82 independent and objective studies that compare Masimo SET to all pulse oximetry (both conventional and next generation), all conclude Masimo SET is superior.

Proven Performance of Masimo SET®

Superior performance across patient populations.

1 Lutter et al. (2002) Testing was conducted on patients on intra-aortic balloon pumps, thus introducing artificial "pulses". Both pulse oximeters did not match the ECG heart rate.
2 All studies published between 1995 and 2006 comparing Masimo to other pulse oximetry technologies which were conducted under established scientific protocols without bias toward any technology and were not conducted or commissioned by a manufacturer.