



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. 

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 Masimo SET.

pulse oximetry sensors
2007



7367-3478C-0906

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.

¹ Barker SJ, Morgan S. A laboratory comparison of the newest “motion-resistant” pulse oximeters during motion and hypoxemia. *Anesthesia & Analgesia* 2004; 98(5S):S2.

² Barker SJ. Standardization of the testing of pulse oximeter performance. *Anesthesia & Analgesia* 2002;94:S17-S20.

³ Hay WW, Rodden DJ, Collins SM, Melara DL, Hale KA, Fashaw LM. Reliability of conventional and new oximetry in neonatal patients. *Journal of Perinatology* 2002;22:360-366.

LNOP[®]

adhesive sensors

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.



LNOP Adt/Adult
> 30 kg

Sensor Part #1001



LNOP Adtx/Adult
> 30 kg

Sensor Part #1829



LNOP Pdt/Pediatric
10 - 50 kg

Sensor Part #1025



LNOP Pdtx/Pediatric
10 - 50 kg

Sensor Part #1830



LNOP Inf-L/Infant
3 - 20 kg

Sensor Part #1800
Replacement Tape Part #1801



LNOP Neo-L/Neonatal & Adult
< 3 kg or > 40 kg
Sensor Part #1798

Replacement Tape Part #1799



LNOP NeoPt-L/Neonatal Pre-term
< 1 kg

Sensor Part #1651
Replacement Posey Part #1926



LNOP Neo/Neonatal
< 10 kg

Sensor Part #1002
Replacement Tape Part #1054

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 LNOPYI 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.



LNOP DCI Adult Digit Sensor > 30 kg Sensor Part #1269	LNOP DCIP Pediatric Digit Sensor 10 - 50 kg Sensor Part #1276	DCSC Adult Direct Connect Sensor > 30 kg Sensor Part #1396 (3 ft), #1969 (12 ft)
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LNOPYI Multi-site Sensor > 1 kg Sensor Part #1544	CleanShield [®] Wrap > 1 kg Wrap Part #1596	Standard Wrap > 1 kg Wrap Part #1597	Standard Petite Wrap > 1 kg Wrap Part #1598	Foam Wrap > 1 kg Wrap Part #1602
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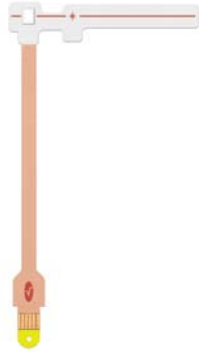


LNOP DC-195 Adult Digit Sensor > 30 kg Sensor Part #1560	LNOP TC-I Adult Ear Sensor > 30 kg Sensor Part #1794	LNOP TF-I Adult Transreflectance Sensor > 30 kg Sensor Part #1793, Headband Part #1608
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Masimo's LNOP SofTouch line of sensors is designed 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.



LNOP SofTouch NeoPt-L
< 1 kg
Sensor Part #1651
Replacement Posey Part #1926



LNOP Newborn Neonatal
< 3 kg
Sensor Part #2203
Replacement Posey Part #1926

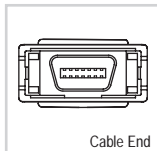


LNOP SofTouch NeoPt
< 1 kg
Sensor Part #1003
Replacement Posey Part #1053

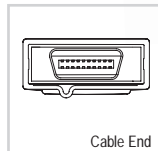


LNOP YI Multi-site with Foam Wrap
> 1 kg
Sensor Part #1544
Replacement Posey Part #1602

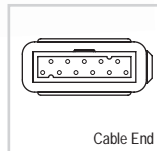
Different patient cables are available to connect LNCS or LNOP sensors to a variety of pulse oximeters and multi-parameter monitors equipped with Masimo SET. Adapter cables are also available for monitors with conventional technology, allowing standardization on sensors throughout a facility with a mixed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



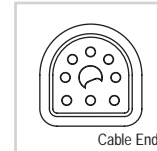
LNOP Patient Cable
Masimo SET Oximeters and monitors with Masimo SET
Cable Part #1173 (4 ft), #1005 (8 ft), #1006 (12 ft)



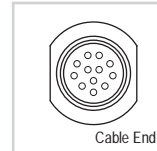
Red LNOP Patient Cable
Masimo SET Rainbow equipped Oximeters
Cable Part #2058 (4 ft), #2059 (8 ft), #2060 (12 ft)



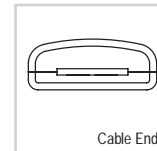
LNOP to GE
GE Solar and DASH Monitors with Masimo SET
Cable Part #1978



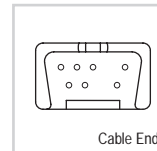
LNOP to Philips Patient Cable
For use with Masimo SET Intellivue Modules, Philips FAST SpO₂ technology Intellivue Modules or Intellivue MMS
Cable Part #2282 (12 ft)



AC-1 Philips 12 Pin Cable
Allows use of LNOP Sensors with Philips non-Masimo SET Monitors
Cable Part #1849 (12 ft)



LNOP PC04 Ext
Extension Cable for LNOP Patient Cable
Cable Part #1619 (4 ft)



MAC-1 Adapter Cable
Allows use of LNOP Sensors with LNCS Patient Cables or conventional Nellcor Cables
Cable Part #1645 (18 in), #1927 (12 ft)

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.



LNCS Adux
Adult Sensor
> 30 kg
Sensor Part #1859



LNCS Pdux
Pediatric Sensor
10 - 50 kg
Sensor Part #1860



LNCS Inf-L
Infant Sensor
3 - 20 kg
Sensor Part #1861



LNCS Neo-L
Neonatal Sensor
< 3 kg or > 40 kg
Sensor Part #1862



LNCS NeoPt-L
Neonatal Pre-term Sensor
< 1 kg
Sensor Part #1901

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.



LNCS DCI
Adult Digit Sensor
> 30 kg
Sensor Part #1863



LNCS DCIP
Pediatric Digit Sensor
10 - 50 kg
Sensor Part #1864



LNCS DCSC
Adult Direct Connect Sensor
> 30 kg
Sensor Part #1396 (3 ft), #1969 (12 ft)



LNCS YI Multi-site Sensor
> 1 kg
Sensor Part #2258



CleanShield[®] Wrap
> 1 kg
Wrap Part #1596



Standard Wrap
> 1 kg
Wrap Part #1597



Standard Petite Wrap
> 1 kg
Wrap Part #1598



Foam Wrap
> 1 kg
Wrap Part #1602

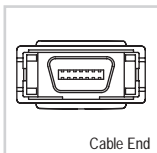


LNCS TC-I
Adult Ear Sensor
> 30 kg
Sensor Part #1895

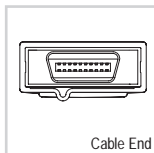


LNCS TF-I
Adult Transflectance Forehead Sensor
> 30 kg
Sensor Part #1896, Headband Part #1608

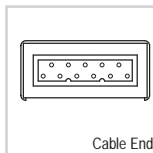
Different patient cables are available to connect LNCS or LNOP sensors to a variety of pulse oximeters and multi-parameter monitors equipped with Masimo SET. Adapter cables are also available for monitors with conventional technology, allowing standardization on sensors throughout a facility with a mixed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



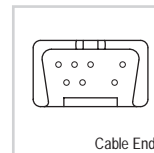
Cable End



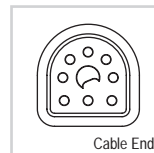
Cable End



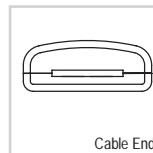
Cable End



Cable End



Cable End



Cable End

LNCS Patient Cable
For Masimo SET Oximeters
Cable Part #2017 (4 ft),
#1814 (10 ft), #2013 (14 ft)

Red LNCS Patient Cable
For Masimo SET Rainbow equipped Oximeters
Cable Part #2055 (4 ft), #2056 (10 ft), #2057 (12ft)

LNCS to GE Cable
For GE Solar and Dash Monitors with Masimo SET
Cable Part #2016 (10 ft)

LNCS Ext-4
Extension Cable for LNCS Patient Cable
For Medtronic LP12 with Conventional Nellcor
Cable Part #2021 (4 ft)

LNCS to Philips Patient Cable
Masimo SET Intellivue Modules, Philips FAST
SpO₂ Intellivue Modules or Intellivue MMS
Cable Part #2281 (10 ft)

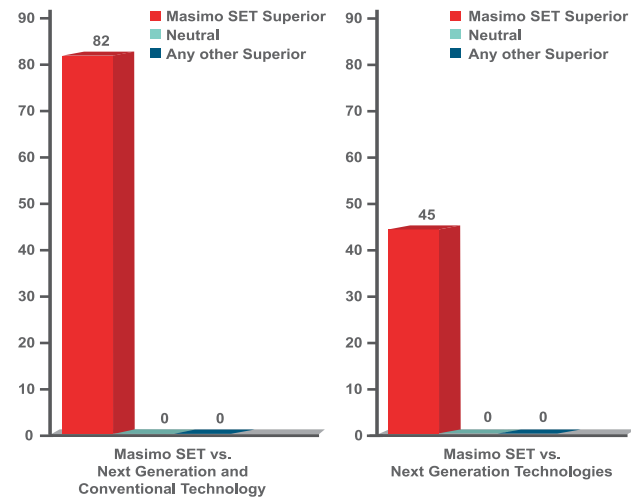
LNCS to LNOP Patient Cable Adapter
Allows use of LNCS Sensors with LNOP Cables
Cable Part #1816 (18 in)

Clinical Validation of Masimo SET.

Accurate monitoring when you need it most.®

Independent and objective published studies^{1,2}

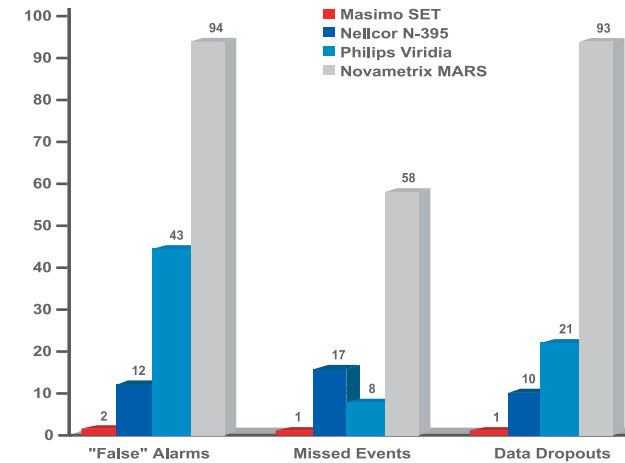
While clinical literature often reflects an even distribution of opinion on different medical issues and technologies, a review of the independent literature on pulse oximetry overwhelmingly demonstrates the superior performance of Masimo SET pulse oximetry. The graphic (right) demonstrates the distribution of conclusions when Masimo SET is compared head-to-head with Next Generation and conventional pulse oximetry. Note that in 45 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.



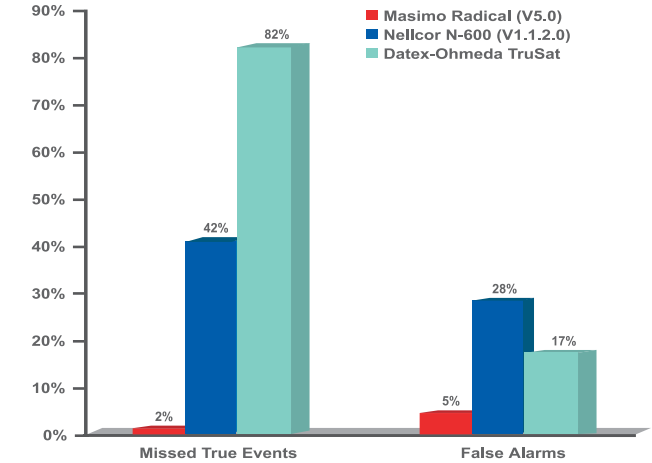
Proven Performance of Masimo SET.

Superior performance across patient populations.

motion and hypoxemia¹



motion and low perfusion²



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.

¹ Hay WW, et al, Reliability of conventional and new oximetry in neonatal patients. *Journal of Perinatology*. 2002; 22:360-366.

² Nitin Shah, M.D., Laverne Estanol, M.S. Comparison of three new generation pulse oximeters during motion and low perfusion in volunteers. *Anesthesiology* 2006; 105: A929.