

# 510(k) SUMMARY

JUL 11 2001



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**Submitted by:** Masimo Corporation  
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**Company Contact:** James J. Cronin, Vice President, Regulatory Affairs/Quality Assurance

**Date Summary Prepared:** June 12, 2001

**Trade Name** Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and accessories

**Common Name** Pulse Oximeter and Sensor

**Classification Name** Oximeter (74DQA) (870.2700)  
Cable, Transducer and Electrode (74DSA) (870.2900)

**Substantially Equivalent Devices** Masimo SET Radical Pulse Oximeter with SatShare<sup>™</sup> and LNOP series of Sensors and Cables  
510(k) Number - K000126

### Description of Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup>

The Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and accessories is a device consisting of the Masimo SET technology, connecting cable, and oximetry sensors to noninvasively calculate the functional oxygen saturation of arterial hemoglobin (SpO<sub>2</sub>) and pulse rate. It features an easy-to-read display that presents patient data and status information: a LCD (liquid crystal display) display that shows the SpO<sub>2</sub>, pulse rate values, and a plethysmographic waveform, the current high and low SpO<sub>2</sub> and pulse rate limit setting, and messages as appropriate.

#### Features

- Ability to perform as a stand alone monitor and a detachable portable monitor
- Several types of Masimo LNOP<sup>®</sup> sensors for flexibility.
- An automatic self-test at start-up.
- Ability to be connected to the sensor port of multi-parameter devices that allows the multi-parameter device to share the Masimo SET<sup>®</sup> Radical Pulse Oximetry measurements
- Ability to be connected to digital communication modules
- Backlit display for excellent visibility in subdued lighting conditions.
- Direct access to user-selectable high and low alarm limits for SpO<sub>2</sub> and pulse rate.
- An audible pulse indicator with an adjustable volume
- Visual and audible (adjustable volume) alarms.
- An alarm-silence feature; silences audible alarms for 120 seconds or continuously until deactivated.
- Status and alarm informational messages appear on the LCD.

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- 4, 6, 8, 12, or 16 second SpO<sub>2</sub> response averaging modes.
- Trend data storage of up to 8 hours .
- Automatic scaled plethysmographic waveform
- Large SpO<sub>2</sub> digital display for clear differentiation from the pulse rate value.

The PC series of connecting cables connects the monitor to the oximetry sensors and transfers LED drive power to the oximetry sensors from the monitor and the monitor receives the detector signals from the oximetry sensor.

This filing included additional SatShare cables that attach to the docking station and the oximeter sensor connector/port of additional validated multi-parameter device/modules enabling the SatShare™ feature of the Radical Pulse Oximeter with these multi-parameter devices.

The LNOP® series of oximetry sensors measure the light absorption of blood from two light emitting diodes (LED's). Oxygen saturated blood absorbs light differently than unsaturated blood. The amount of light absorbed by the blood is used to calculate the ratio of oxygenated hemoglobin to total hemoglobin in arterial blood.

### Intended use

The Masimo SET® Radical Pulse Oximeter with SatShare™ and accessories is intended for continuous noninvasive monitoring of functional oxygen saturation of arterial hemoglobin (SpO<sub>2</sub>) and pulse rate (measured by an SpO<sub>2</sub> sensor) for adult, pediatric, and neonatal patients in hospitals, hospital-type facilities, mobile, and home environments.

### Indications For Use:

The Masimo SET® Radical Pulse Oximeter with SatShare™ and accessories are indicated for the continuous noninvasive monitoring of functional oxygen saturation of arterial hemoglobin (SpO<sub>2</sub>) and pulse rate (measured by an SpO<sub>2</sub> sensor). The Masimo SET® Radical Pulse Oximeter with SatShare™ and accessories are indicated for use with adult, pediatric, and neonatal patients during both no motion and motion conditions, for patients who are well or poorly perfused in hospitals, hospital-type facilities, mobile, and home environments. In addition the Masimo SET® Radical Pulse Oximeter with SatShare™ and accessories is indicated to provide the continuous noninvasive monitoring data obtained from the Masimo SET® Radical Pulse Oximeter with SatShare™ of functional oxygen saturation of arterial hemoglobin (SpO<sub>2</sub>) and pulse rate (measured by an SpO<sub>2</sub> sensor) to multi-parameter devices for display on those devices.

### Principles of Operation

The principles of operation of the Masimo SET® Radical Pulse Oximeter with SatShare™ are that oxyhemoglobin and deoxyhemoglobin differ in their absorption of red and infrared light (spectrophotometry), the volume of arterial blood in tissue (and hence, light absorption by that blood) changes during the pulse (plethysmography), and that arterio-venous shunting is highly variable and that fluctuating absorbance by venous blood is a major component of noise during the pulse. Because oxyhemoglobin and deoxyhemoglobin differ in light absorption, the amount of red and infrared light absorbed by the blood is related to hemoglobin oxygen saturation. The Masimo SET® Radical Pulse Oximeter with SatShare™ decomposes the red and infrared pulsatile absorbance signal into an arterial signal plus a noise component and calculates the ratio of the arterial signals without noise. The ratio of the two arterial pulse-added absorbance signals and its value is used to find the SpO<sub>2</sub> saturation in an empirically derived equation in the Masimo SET® Radical II's software. The values in the look-up table are based upon human blood studies against a laboratory co-oximeter on healthy adult volunteers in induced hypoxia states during motion and non-motion conditions.

### Method of Operation

The Masimo SET® Radical Pulse Oximeter with SatShare™ is turned on. An oximetry sensor is attached to a patient's finger and one end of a patient cable is connected to the sensor and the other end connected to the Masimo SET® Radical Pulse Oximeter with SatShare™ module.

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The monitor will begin continuously displaying the patient's pulse plethysmographic waveform, pulse rate, and SpO<sub>2</sub> value. The practitioner can adjust the high and low alarm limits to their desired value, if required. The practitioner can then use the information that is continuously displayed on the monitor, and hear if an alarm limit is reached, to help assess the condition of the patient and as an aide in determining if any intervention is required by the practitioner.

Once the practitioner determines the patient no longer requires monitoring, the cable is disconnected from the sensor, the oximetry sensor is removed (and disposed of if it is a single use device), and the power to the monitor is turned off.

### Power Source

The Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> is powered either with a voltage input of 100-230 Vac, 47 – 63 Hz. The detachable portable monitor operates on 4 rechargeable Nickel Metal Hydride batteries with an operating time of 2-4 hours.

### Specifications and Operating Ranges

#### Range

Saturation (% SpO <sub>2</sub> )	1% - 100%
Pulse Rate (bpm)	25 – 240
Perfusion	0.02% - 20%

#### Accuracy

Saturation (% SpO <sub>2</sub> ) - During No Motion Conditions <sup>1</sup>	
Adults, Pediatrics	70% - 100% ± 2 digits 0% - 69% unspecified
Neonates	70% - 100% ± 3 digits 0% - 69% unspecified

Saturation (% SpO <sub>2</sub> ) - During Motion Conditions <sup>2,3</sup>	
Adults, Pediatrics <sup>2</sup>	70% - 100% ± 3 digits 0% - 69% unspecified
Neonates <sup>3</sup>	70% - 100% ± 3 digits 0% - 69% unspecified

Pulse Rate (bpm) - During No Motion Conditions <sup>1</sup>	
Adults, Pediatric, Neonates	25 to 240 ± 3 digits

Pulse Rate (bpm) - During Motion Conditions <sup>2,3</sup>	
Adults, Pediatric, Neonates	25 to 240 ± 5 digits

#### Resolution

Saturation (% SpO <sub>2</sub> )	1%
Pulse Rate (bpm)	1

#### Low Perfusion Performance<sup>4</sup>

> 0.02% Pulse Amplitude and % Transmission > 5%	Saturation (% SpO <sub>2</sub> ) ± 2 digits Pulse Rate ± 3 digits
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#### Interfering Substances

Carboxyhemoglobin may erroneously increase readings. The level of increase is approximately equal to the amount of carboxyhemoglobin present. Dyes, or any substance containing dyes, that change usual arterial pigmentation may cause erroneous readings.

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### Power

Voltage Input Range 100-230 Vac, 47-63 Hz  
Maximum AC Power Consumption: 55 VA

### Battery

Type 4 Rechargeable Nickel Metal Hydride Batteries  
Operating Time > 3 hours  
Charge Time < 3 hours

### Fuses

1ASB, Metric, (5x20mm), 250V

### Isolation

Chassis Leakage Current Less than 100  $\mu$ Amp  
Ground resistance Less than 1.0  $\Omega$

### Environmental

Operating Temperature 41°F to + 104°F (5°C to +40°C)  
Storage Temperature -40°F to + 158°F (-40°C to +70°C)  
Relative Humidity 5% to 95% noncondensing

### Circuitry

Microprocessor controlled  
Automatic self-test of oximeter when powered on  
Automatic setting of default parameters  
Automatic alarm messages  
Trend data output of SpO<sub>2</sub>, pulse rate - up to 8 hours of stored data

### Display

Type Backlit LCD  
Pixels 480 x 160 dots  
Dot Pitch 0.24 mm  
Data Displayed Pulse Rate, SpO<sub>2</sub> %, Pleth wave, Alarms, Trends, Status messages

### Audio indicators

Adjustable volume audible pulse: OFF and 25% to 100% in 4 steps  
Adjustable volume audible alarm tone: levels and 25% to 100% in 4 steps  
Alarm silence (120 seconds); all mute (continuous silence)  
Pulse rate out-of-limits alarm  
SpO<sub>2</sub> level out-of limits alarm  
Sensor condition alarms  
System failure and battery low alarms

### Modes

Averaging mode: 4, 6, 8, 12, and 16 seconds  
Sensitivity Normal and High

### Audible Volumes

Alarm 25% to 100% in 4 steps  
Pulse Beep OFF and 25% to 100% in 4 steps

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COM 1: A digital interface for network communication.

Data output every second; SpO<sub>2</sub>, and pulse rate

9600 Baud bidirectional

Number of bits per character:	8
Parity	None
Bits	1 start, 1 stop
Handshaking	None
Connector type	9-pin standard D, female

Connector pin functions:

1	No Connection
2	Receive data – RS-232 $\pm 9$ V ( $\pm 5$ Vmin)
3	Transmit data – RS-232 $\pm 9$ V ( $\pm 5$ Vmin)
4	No Connection
5	Signal Ground Reference for COM 1 signals
6	No Connection
7	Request to send – Not used
8	Clear to send – Not used
9	No Connection

PRINTER: A connection for optional printer.

Connector pin functions:

1	No Connection
2	Receive data – Not used
3	Transmit data – RS-232 $\pm 9$ V ( $\pm 5$ Vmin)
4	No Connection
5	Signal Ground – Reference for Printer signals
6	No Connection
7	Request to send – Not used
8	Clear to send – RS-232 $\pm 9$ V ( $\pm 5$ Vmin)
9	No Connection

### Dimensions

#### Docking Station

Height	3.5 in (8.9 cm)
Width	10.5 in (26.7 cm)
Depth	7.7 in (19.6 cm)
Weight	4.7 lbs (2.14 kg)

#### Portable

Height	8.9 in (22.6 cm)
Width	3.3 in (8.4 cm)
Depth	2.1 in (5.3 cm)
Weight	1.3 lbs (0.59 kg)

<sup>1</sup> The Masimo SET<sup>®</sup> Radical pulse oximeter with LNOP•Adt sensors has been validated for no motion accuracy in human blood studies on healthy adult volunteers in induced hypoxia studies in the range of 70-100% SpO<sub>2</sub> against a laboratory co-oximeter and ECG monitor. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.

<sup>2</sup> The Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> with LNOP-Adt sensors has been validated for motion accuracy in human blood studies on healthy adult volunteers in induced hypoxia studies while performing rubbing and tapping motions at 2 to 4 Hz at an amplitude of 1 to 2 cm and a non-repetitive motion between 1 to 5 Hz at an amplitude of 2 to 3 cm in induced hypoxia studies in the range of 70 - 100% SpO<sub>2</sub> against a laboratory co-oximeter and ECG monitor. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.

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- 3 The Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> with LNOP-Neo and Neo Pt sensors has been validated for neonatal motion accuracy in human blood studies on neonates while moving the neonate's foot at 2 to 4 Hz at an amplitude of 1 to 2 cm against a laboratory co-oximeter and ECG monitor. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.
- 4 The Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> has been validated for low perfusion accuracy in bench top testing against a Biotek Index 2 simulator and Masimo's simulator with signal strengths of greater than 0.02% and a % transmission of greater than 5% for saturations ranging from 70 to 100%. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.

### Environmental Testing

Applicable environmental testing per the Reviewers Guidance for Premarket Submissions - November 1993, i.e. electrical, mechanical and environmental were performed and all tests passed.

### Biocompatibility Testing

All patient contact materials were tested as Surface Devices with skin contact for prolonged contact duration (>24 hr to 30 days) as defined ISO-10993-1: 1992 Biological Evaluation of Medical Devices - Part 1: Guidance on Selection of Tests. All patient contacting material passed.

### Nonclinical tests performed that support a determination of substantial equivalence.

The Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and accessories was subjected to bench testing using a simulator that determined the performance accuracy of the instruments against the simulator under the range of saturation and pulse rates that both devices specify.

The results of the bench testing showed that the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and accessories returned the same saturation accuracy values within  $\pm 2$  digits and pulse rate values within  $\pm 3$  digits when compared to the simulators used.

### Clinical tests performed that support a determination of substantial equivalence.

Clinical studies were performed using the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> on healthy adult volunteer subjects during no motion and motion conditions who were subjected to a progressive induced hypoxia and measuring the arterial hemoglobin saturation value with the instruments against the arterial hemoglobin oxygen determined from arterial blood samples with a CO-Oximeter.

Clinical studies were performed using the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> on neonates during no motion and motion conditions and measuring the arterial hemoglobin saturation value with the instruments against the arterial hemoglobin oxygen determined from arterial blood samples with a CO-Oximeter.

Clinical studies were performed using the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> on healthy adult volunteer subjects who were subjected to low perfusion conditions and to a progressive induced hypoxia and measuring the arterial hemoglobin saturation value with the instruments against the arterial hemoglobin oxygen determined from arterial blood samples with a CO-Oximeter.

Clinical studies were performed using the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> on neonates with low perfusion conditions and measuring the arterial hemoglobin saturation value with the instruments against the arterial hemoglobin oxygen determined from arterial blood samples with a CO-Oximeter.

Clinical studies were conducted following regulations under Title 21 of the Code of Federal Regulations (21CFR), Part 812 - Investigational Device Exemptions, Part 50 - Protection of Human Subjects and Part 56 - Institutional Review Boards.

The results from the clinical studies show that the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> saturation accuracy values for adults and pediatrics within  $\pm 2$  digits during no motion conditions and  $\pm 3$  digits during motion conditions when

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compared to the CO-Oximeter and the pulse rate accuracy values within  $\pm 3$  digits during no motion conditions and  $\pm 5$  digits during motion conditions when compared to the ECG.

The specified saturation accuracy from 70% - 100% for neonates is based on the results from clinical studies on neonates with saturations down to 83% combined with clinical studies on adults to show that the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> to be within  $\pm 3$  digits during both motion and no motion conditions when compared to the CO-Oximeter, and the pulse rate accuracy values for neonates to be within  $\pm 3$  digits during no motion and  $\pm 5$  digits during motion conditions when compared to the ECG.

### Conclusions

The results of the **environmental testing** demonstrated that the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and accessories **met** the requirements of Reviewers Guidance for Premarket Submissions - November 1993.

The results of the **biocompatibility testing** demonstrates the all patient contacting material **met** the requirements of ISO-10993-1: 1992 Biological Evaluation of Medical Devices - Part 1: Guidance on Selection of Tests for Surface Devices with skin contact for prolonged contact duration (>24 hr to 30 days).

The results of the **bench testing** demonstrates that the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> **meets** its performance requirements.

The results of the **clinical testing** demonstrates that the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and accessories **meet** its performance requirements during no motion and motion conditions and low perfusion conditions.

The **non-clinical and clinical testing** performed demonstrates that the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and accessories is safe, effective.

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Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

Mr. James J. Cronin  
Masimo Corporation  
2852 Kelvin Avenue  
Irvine, CA 92614

Re: K011851  
Masimo SET® Radical Pulse Oximeter with SatShare™ and LNOP®  
series of Sensors and Cables  
Regulation Number: 870.2700  
Regulatory Class: II (two)  
Product Code: 74 DQA  
Dated: June 12, 2001  
Received: June 13, 2001

Dear Mr. Cronin:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Current Good Manufacturing Practice requirements, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic QS inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish

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further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4648. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification"(21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597, or at its internet address "<http://www.fda.gov/cdrh/dsma/dsmamain.html>".

Sincerely yours,

A handwritten signature in cursive script, appearing to read "James E. Dillard III for,".

James E. Dillard III  
Director  
Division of Cardiovascular and  
Respiratory Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known): **K011851**

Device Name: Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and the LNOP<sup>®</sup> Series of Sensors and Cables

### Indications For Use:

The Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and accessories are indicated for the continuous noninvasive monitoring of functional oxygen saturation of arterial hemoglobin (SpO<sub>2</sub>) and pulse rate (measured by an SpO<sub>2</sub> sensor). The Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and accessories are indicated for use with adult, pediatric, and neonatal patients during both no motion and motion conditions, for patients who are well or poorly perfused in hospitals, hospital-type facilities, mobile, and home environments. In addition the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> and accessories is indicated to provide the continuous noninvasive monitoring data obtained from the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup> of functional oxygen saturation of arterial hemoglobin (SpO<sub>2</sub>) and pulse rate (measured by an SpO<sub>2</sub> sensor) to multi-parameter devices for display on those devices.

The Masimo LNOP<sup>®</sup> Series of Sensors are indicated for the following:

- A single use oximetry sensor intended for adults and pediatrics greater than 30 kg
- A single use oximetry sensor intended for pediatrics and small adults greater than 10 kg and less than 50 kg
- A single use oximetry sensor intended for neonates with good skin integrity less than 10 kg
- A single use oximetry sensor intended for neonates with poor skin integrity less than 1 kg
- A reusable oximetry sensor intended for adults and pediatrics greater than 30 kg
- A reusable oximetry sensor intended for pediatrics and small adults greater than 10 kg and less than 50 kg

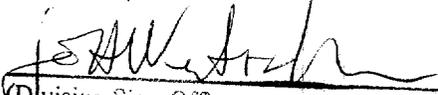
The Masimo PC Series of Patient Cables are indicated for use with the Masimo LNOP<sup>®</sup> Series of Sensors and the Masimo SET<sup>®</sup> Radical Pulse Oximeter with SatShare<sup>™</sup>.

The following are additional SatShare cables indicated for connection to the following multi-parameter monitors:

- Ohmeda - RGM Respiratory Monitor and
- Datex-Ohmeda - M-EST and M-ESTP Modules
- Draeger - Vitalert 1000, 3200, Evita 4, Evita 2 dura, Julian Anesthetic Workstation, and Narcomed 4 Monitors
- Airshields - Multiparameter Monitor with Ohmeda SpO<sub>2</sub>
- Datascope - Passport Monitor with Datascope SpO<sub>2</sub> and Accutor Monitors with Nellcor SpO<sub>2</sub> and Datascope SpO<sub>2</sub>
- GE/Marquette - Tram 100A and Tram 500A modules with Ohmeda SpO<sub>2</sub>

**(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)**

Concurrence of CDRH, Office of Device Evaluation (ODE)

  
(Division Sign-Off)  
Division of Cardiovascular, Respiratory,  
and Neonatal Devices  
510(k) number \_\_\_\_\_

Prescription Use  \_\_\_\_\_  
(Per 21 CFR 801.109)

or

Over-The-Counter Use \_\_\_\_\_  
(Optional Format 1-2-96)