Envitec Oxygen Sensors Essential Requirements 01 Aug 2017

Section: 1

"The devices must be designed and manufactured in such a way that, when used under the conditions and for the purposes intended, they will not compromise the clinical condition or the safety of patients, or the safety and health of users or, where applicable, other persons, provided that any risks which may be associated with their intended use constitute acceptable risks when weighed against the benefits to the patient and are compatible with a high level of protection of health and safety."

Standards Applied
EN ISO 14971:2012

Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#18100 Envitec Oxygen Sensors Risk management document for the system

Section: 1 i

"reducing, as far as possible, the risk of use error due to the ergonomic features of the device and the environment in which the device is intended to be used (design for patient safety), "

Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES

Section: 1 ii

"consideration of the technical knowledge, experience, education and training and where applicable the medical and physical conditions of intended users (design for lay, professional, disabled or other users)."

Notes:
Does NOT Apply Internal Component

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Section: 2 i

"The solutions adopted by the manufacturer for the design and
construction of the devices must conform to safety principles, taking account of the generally acknowledged state of the art.
In selecting the most appropriate solutions, the manufacturer must apply the following principles in the following order:"

Supporting Document IDs
#17622 Specification Datasheet - 0110049
#17620 Specification Datasheet - 0110048
#17618 Specification Datasheet - 0110043
#16701 Envitec Oxygen Sensor Quality Assurance agreement Appendix 1
#16320 0110021 Specification Datasheet
#15494 Envitec Oxygen Sensors OES (OEM) Specifications (20) OOM204
#15493 Envitec Oxygen Sensors OES (OEM) Specifications (19) OOM202-2
#15492 Envitec Oxygen Sensors OES (OEM) Specifications (18) OOM 202-25
#15490 Envitec Oxygen Sensors OES (OEM) Specifications (16) OOM203
#15489 Envitec Oxygen Sensors OES (OEM) Specifications (15) OOM202-1
#15488 Envitec Oxygen Sensors OES (OEM) Specifications (14) OOM201
#15487 Envitec Oxygen Sensors OES (OEM) Specifications (13) OOM112
#15486 Envitec Oxygen Sensors OES (OEM) Specifications (12) OOM111
#15485 Envitec Oxygen Sensors OES (OEM) Specifications (11) OOM110
#15481 Envitec Oxygen Sensors OES (OEM) Specifications (7) OOM105
#15475 Envitec Oxygen Sensors OES (OEM) Specifications (1) OOM103
#15142 0110045 Maxtec Oxygen Sensors Specifications R-45V datasheet
#14365 Envitec Oxygen Sensors Specifications 0110042 Specification Datasheet v1.1
#14359 Maxtec Oxygen Sensors Specifications 0110071 Specification Datasheet v1.0
#12330 0110041 Specification Datasheet
#12328 0110040 Specification Datasheet
#12326 0110047 Specification Datasheet
#12324 0110044 Specification Datasheet
#12322 0110023 Specification Datasheet

Notes:
 Design drawings,label, instructions for use

Section: 2 ii

"eliminate or reduce risks as far as possible (inherently safe design and construction),"

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Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Notes:
Design drawings,label, instructions for use

Section: 2 iii

"where appropriate take adequate protection measures including alarms if necessary, in relation to risks that cannot be eliminated, "

Notes:
Does NOT Apply Internal Component.

Section: 2 iv

" inform users of the residual risks due to any shortcomings of the protection measures adopted."

Supporting Document IDs
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Notes:
label, instructions for use

Section: 3

"The devices must achieve the performances intended by the manufacturer and be designed, manufactured and packaged in such a way that they are suitable for one or more of the functions referred to in Article 1 (2) (a), as specified by the manufacturer."

Standards Applied
ISO 80601-2-55

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Supporting Document IDs
#20842 Envitec Oxygen Sensors External Test Results and Certificates ISO 80601-2-55 CONFIDENTIAL FILES

Section: 4

"The characteristics and performances referred to in Sections 1, 2 and 3 must not be adversely affected to such a degree that the clinical conditions and safety of the patients and, where applicable, of other persons are compromised during the lifetime of the device as indicated by the manufacturer, when the device is subjected to the stresses which can occur during normal conditions of use."

Standards Applied
EN ISO 14971:2012
ISO 80601-2-55

Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#20842 Envitec Oxygen Sensors External Test Results and Certificates ISO 80601-2-55 CONFIDENTIAL FILES

Section: 5

"The devices must be designed, manufactured and packed in such a way that their characteristics and performances during their intended use will not be adversely affected during transport and storage taking account of the instructions and information provided by the manufacturer."

Supporting Document IDs
#21150 Envitec Oxygen Sensors Packaging Trials and validation Viamed
#17847 Envitec Oxygen Sensors Material Safety Data Sheet
#17847 Envitec Oxygen Sensors Material Safety Data Sheet
#17842 MSDS Viamed Oxygen Sensors
#9044 Envitec Oxygen Sensor R-23V Packaging Trials and validation
#9043 Envitec Oxygen Sensor R-23V Packaging Trials and validation Photos
#1563 Envitec Oxygen Sensor R-23V Packaging Trials and validation 5
#1562 Envitec Oxygen Sensor R-23V Packaging Trials and validation 4
#1561 Envitec Oxygen Sensor R-23V Packaging Trials and validation 3
#1560 Envitec Oxygen Sensor R-23V Packaging Trials and validation 2
#1559 Envitec Oxygen Sensor R-23V Packaging Trials and validation 1

Envitec Oxygen Sensors Essential Requirements 01 Aug 2017

Section: 6

"Any undesirable side-effect must constitute an acceptable risk when weighed against the performances intended."

Supporting Document IDs
#20910 Envitec Oxygen Sensors Clinical Trials Reports Reviews and Post Market Surveillance Clinical Evaluation
#20854 Envitec Oxygen Sensors Clinical Evaluation CONFIDENTIAL FILES
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#20115 Envitec Oxygen Sensors Post Market Surveillance

Section: 6 ii

"Demonstration of conformity with the essential requirements must include a clinical evaluation in accordance with Annex X."

Supporting Document IDs
#20910 Envitec Oxygen Sensors Clinical Trials Reports Reviews and Post Market Surveillance Clinical Evaluation
#20854 Envitec Oxygen Sensors Clinical Evaluation CONFIDENTIAL FILES

Section: 7.1 i

"The devices must be designed and manufactured in such a way as to guarantee the characteristics and performances referred to in Section I on the ‘General requirements’."

Supporting Document IDs
#20910 Envitec Oxygen Sensors Clinical Trials Reports Reviews and Post Market Surveillance Clinical Evaluation
#20854 Envitec Oxygen Sensors Clinical Evaluation CONFIDENTIAL FILES

Envitec Oxygen Sensors Essential Requirements 01 Aug 2017

Section: 7.1 ii

"the choice of materials used, particularly as regards toxicity and, where appropriate, flammability"

Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#17847 Envitec Oxygen Sensors Material Safety Data Sheet
#17842 MSDS Viamed Oxygen Sensors

Section: 7.1 ii

"the compatibility between the materials used and biological tissues, cells and body fluids, taking account of the intended purpose of the device,"

Supporting Document IDs
#17842 MSDS Viamed Oxygen Sensors

Section: 7.1 iii

"where appropriate, the results of biophysical or modelling research whose validity has been demonstrated beforehand."

Supporting Document IDs
#20854 Envitec Oxygen Sensors Clinical Evaluation CONFIDENTIAL FILES
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES

Envitec Oxygen Sensors Essential Requirements 01 Aug 2017

Section: 7.2

"The devices must be designed, manufactured and packed in such a way as to minimize the risk posed by contaminants and residues to the persons involved in the transport, storage and use of the devices and to the patients, taking account of the intended purpose of the product. Particular attention must be paid to the tissues exposed and to the duration and frequency of exposure"

Supporting Document IDs
#20854 Envitec Oxygen Sensors Clinical Evaluation CONFIDENTIAL FILES
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#17847 Envitec Oxygen Sensors Material Safety Data Sheet
#17842 MSDS Viamed Oxygen Sensors

Section: 7.3

"The devices must be designed and manufactured in such a way that they can be used safely with the materials, substances and gases with which they enter into contact during their normal use or during routine procedures; if the devices are intended to administer medicinal products they must be designed and manufactured in such a way as to be compatible with the medicinal products concerned according to the provisions and restrictions governing these products and that their performance is maintained in accordance with the intended use."

Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#20842 Envitec Oxygen Sensors External Test Results and Certificates ISO 80601-2-55 CONFIDENTIAL FILES

Notes:
anaesthetic gases

Section: 7.4

"Where a device incorporates, as an integral part, a substance which, if used separately, may be considered to be a medicinal product as defined in Article 1 of Directive 2001/83/EC and which is liable to act upon the body with action ancillary to that of the device, the quality, safety and usefulness of the substance must be verified by analogy with the methods specified in Annex I to Directive 2001/83/ EC.
For the substances referred to in the first paragraph, the notified body shall, having verified the usefulness of the substance as part of the medical device and taking account of the intended purpose of the device, seek a scientific opinion from one of the competent authorities designated by the Member States or the European Medicines Agency (EMEA) acting particularly through its committee in accordance with Regulation (EC) No 726/2004 (1) on the quality and safety of the substance including the clinical benefit/risk profile of the incorporation of the substance into the

device. When issuing its opinion, the competent authority or the EMEA shall take into account the manufacturing process and the data related to the usefulness of incorporation of the substance into the device as determined by the notified body.
Where a device incorporates, as an integral part, a human blood derivative, the notified body shall, having verified the usefulness of the substance as part of the medical device and taking into account the intended purpose of the device, seek a scientific opinion from the EMEA, acting particularly through its committee, on the quality and safety of the substance including the clinical benefit/risk profile of the incorporation of the human blood derivative into the device. When issuing its opinion, the EMEA shall take into account the manufacturing process and the data related to the usefulness of incorporation of the substance into the device as determined by the notified body.
Where changes are made to an ancillary substance incorporated in a device, in particular related to its manufacturing process, the notified body shall be informed of the changes and shall consult the relevant medicines competent authority (i.e. the one involved in the initial consultation), in order to confirm that the quality and safety of the ancillary substance are maintained. The competent authority shall take into account the data related to the usefulness of incorporation of the substance into the device as determined by the notified body, in order to ensure that the changes have no negative impact on the established benefit/risk profile of the addition of the substance in the medical device. When the relevant medicines competent authority (i.e. the one involved in the initial consultation) has obtained information on the ancillary substance, which could have an impact on the established benefit/risk profile of the addition of the substance in the medical device, it shall provide the notified body with advice, whether this information has an impact on the established benefit/risk profile of the addition of the substance in the medical device or not. The notified body shall take the updated scientific opinion into account in reconsidering its assessment of the conformity assessment procedure."

Notes:
Does NOT Apply No Drugs Included, no materials or derivatives from human blood

Section: 7.5

"The devices must be designed and manufactured in such a way as to reduce to a minimum the risks posed by substances leaking from the device. Special attention shall be given to substances which are carcinogenic, mutagenic or toxic to reproduction, in accordance with Annex I to Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (1).
If parts of a device (or a device itself) intended to administer and/or remove medicines, body liquids or other substances to or from the body, or devices intended for transport and storage of such body fluids or substances, contain phthalates which are classified as carcinogenic, mutagenic or toxic to reproduction, of category 1 or 2, in accordance with Annex I to Directive 67/548/EEC, these devices must be labelled on the device itself and/or on the packaging for each unit or, where appropriate, on the sales packaging as a device containing phthalates. If the intended use of such devices includes treatment of children or treatment of pregnant or nursing women, the manufacturer must provide a specific justification for the use of these substances with regard to compliance with the essential requirements, in particular of this paragraph, within the technical documentation and, within the instructions for use, information on residual risks for these patient groups and, if applicable, on appropriate precautionary measures."

Standards Applied
EN ISO 14971:2012

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Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#17847 Envitec Oxygen Sensors Material Safety Data Sheet
#17842 MSDS Viamed Oxygen Sensors
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Notes:
Risk management file, Product labelling, Safety data sheet, Instructions for use. no application of medicines, body liquids or other substances.

Section: 7.6

"Devices must be designed and manufactured in such a way as to reduce, as much as possible, risks posed by the unintentional ingress of substances into the device taking into account the device and the nature of the environment in which it is intended to be used."

Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES

Notes:
Damage, influence of disinfectants

Section: 8.1

"The devices and manufacturing processes must be designed in such a way as to eliminate or reduce as far as possible the risk of infection to the patient, user and third parties. The design must allow easy handling
and, where necessary, minimize contamination of the device by the patient or vice versa during use."

Standards Applied
EN ISO 14971:2012

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Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Notes:
Risk management file Instructions for use

Section: 8.2

"Tissues of animal origin must originate from animals that have been subjected to veterinary controls and surveillance adapted to the intended use of the tissues. Notified bodies shall retain information on the geographical origin of the animals. Processing, preservation, testing and handling of tissues, cells and
substances of animal origin must be carried out so as to provide
optimal security. In particular safety with regard to viruses and other transmissible agents must be addressed by implementation of validated methods of elimination or viral inactivation in the course of the manufacturing process."

Supporting Document IDs
#13135 No Animal Tissues No Animal Substances

Notes:
Does NOT Apply

Section: 8.3

"Devices delivered in a sterile state must be designed, manufactured and packed in a non-reusable pack and/or according to appropriate procedures to ensure that they are sterile when placed on the market and remain sterile, under the storage and transport conditions laid down, until the protective packaging is damaged or opened."

Notes:
Does NOT Apply no deliveries in sterile state

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Section: 8.4

"Devices delivered in a sterile state must have been manufactured and sterilized by an appropriate, validated method."

Notes:
Does NOT Apply no deliveries in sterile state

Section: 8.5

"Devices intended to be sterilized must be manufactured in appropriately controlled (e. g. environmental) conditions."

Notes:
Does NOT Apply no deliveries in sterile state

Section: 8.6

"Packaging systems for non-sterile devices must keep the product without deterioration at the level of cleanliness stipulated and, if the devices are to be sterilized prior to use, minimize the risk of microbial contamination; the packaging system must be suitable taking account of the method of sterilization indicated by the manufacturer."

Supporting Document IDs
#21150 Envitec Oxygen Sensors Packaging Trials and validation Viamed
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#9044 Envitec Oxygen Sensor R-23V Packaging Trials and validation
#9043 Envitec Oxygen Sensor R-23V Packaging Trials and validation Photos
#1563 Envitec Oxygen Sensor R-23V Packaging Trials and validation 5
#1562 Envitec Oxygen Sensor R-23V Packaging Trials and validation 4
#1561 Envitec Oxygen Sensor R-23V Packaging Trials and validation 3
#1560 Envitec Oxygen Sensor R-23V Packaging Trials and validation 2
#1559 Envitec Oxygen Sensor R-23V Packaging Trials and validation 1

Notes:
no deliveries in sterile state

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Section: 8.7

"The packaging and/or label of the device must distinguish between identical or similar products sold in both sterile and non-sterile condition.
"

Notes:
Does NOT Apply no deliveries in sterile state

Section: 9.1

"If the device is intended for use in combination with other devices or equipment, the whole combination, including the connection system must be safe and must not impair the specified performances of the devices. Any restrictions on use must be indicated on the label or in the instructions for use"

Standards Applied
EN ISO 14971:2012
 ISO 80601-2-55

Supporting Document IDs
#20899 Envitec Oxygen Sensors Evidence of Usability Human factors assessment
#20887 Envitec Oxygen Sensors Competitors Information patients and Market Research Known equivalents
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Notes:
Cross reference list (www.viamed.co.uk) Instructions for use

Section: 9.2

"Devices must be designed and manufactured in such a way as to remove or minimize as far as is possible:"

Notes:
Does NOT Apply Section Header

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Section: 9.2 i

"the risk of injury, in connection with their physical features, including the volume/pressure ratio, dimensional and where appropriate ergonomic features,"

Notes:
Does NOT Apply

Section: 9.2 ii

"risks connected with reasonably foreseeable environmental conditions, such as magnetic fields, external electrical influences, electrostatic discharge, pressure, temperature or variations in pressure and acceleration,"

Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#20842 Envitec Oxygen Sensors External Test Results and Certificates ISO 80601-2-55 CONFIDENTIAL FILES
#18100 Envitec Oxygen Sensors Risk management document for the system
#17642 Envitec Oxygen Sensors viamed Labels
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Section: 9.2 iii

"the risks of reciprocal interference with other devices normally used in the investigations or for the treatment given,"

Notes:
Does NOT Apply

Section: 9.2 iv

"risks arising where maintenance or calibration are not possible (as with implants), from ageing of materials used or loss of accuracy of any measuring or control mechanism."

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Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#20842 Envitec Oxygen Sensors External Test Results and Certificates ISO 80601-2-55 CONFIDENTIAL FILES

Notes:
calibration possible,,risk management file, regular calibration of the oxygen analyser

Section: 9.3

"Devices must be designed and manufactured in such a way as to minimize the risks of fire or explosion during normal use and in single fault condition. Particular attention must be paid to devices whose intended use includes exposure to flammable substances or to substances which could cause combustion."

Notes:
Does NOT Apply No, limited energy

Section: 10.1

"Devices with a measuring function must be designed and manufactured in such a way as to provide sufficient accuracy and stability within appropriate limits of accuracy and taking account of the intended purpose of the device. The limits of accuracy must be indicated by the manufacturer."

Standards Applied
ISO 80601-2-55

Supporting Document IDs
#20887 Envitec Oxygen Sensors Competitors Information patients and Market Research Known equivalents
#20842 Envitec Oxygen Sensors External Test Results and Certificates ISO 80601-2-55 CONFIDENTIAL FILES
#17622 Specification Datasheet - 0110049
#17620 Specification Datasheet - 0110048
#17618 Specification Datasheet - 0110043
#16320 0110021 Specification Datasheet
#15143 Envitec Oxygen Sensors Specifications Envitec OOM-106 datasheet
#15142 0110045 Maxtec Oxygen Sensors Specifications R-45V datasheet
#14367 Envitec Oxygen Sensors Specifications 0110021 Specification Datasheet v1.0
#14365 Envitec Oxygen Sensors Specifications 0110042 Specification Datasheet v1.1
#12328 0110040 Specification Datasheet
#12326 0110047 Specification Datasheet
#12324 0110044 Specification Datasheet
#12322 0110023 Specification Datasheet

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Section: 10.2

"The measurement, monitoring and display scale must be designed in line with ergonomic principles, taking account of the intended purpose of the device.
"

Notes:
Does NOT Apply No,sensor without display unit only

Section: 10.3

"The measurements made by devices with a measuring function must be expressed in legal units conforming to the provisions of Council Directive 80/181/EEC (1)."

Notes:
Does NOT Apply No,sensor without display unit only

Section: 11.1

"Devices shall be designed and manufactured in such a way that exposure of patients, users and other persons to radiation shall be reduced as far as possible compatible with the intended purpose, whilst not restricting the application of appropriate specified levels for therapeutic and diagnostic purposes."

Notes:
Does NOT Apply no radiation

Section: 11.2

"Intended radiation"

Notes:
Does NOT Apply no radiation

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Section: 11.2 i

"Where devices are designed to emit hazardous levels of radiation necessary for a specific medical purpose the benefit of which is considered to outweigh the risks inherent in the emission, it must be possible for the user to control the emissions. Such devices shall be designed and manufactured to ensure reproducibility and tolerance of
relevant variable parameters."

Notes:
Does NOT Apply no radiation

Section: 11.2 2

"Where devices are intended to emit potentially hazardous, visible and/ or invisible radiation, they must be fitted, where practicable, with visual displays and/or audible warnings of such emissions"

Notes:
Does NOT Apply no radiation

Section: 11.3

"Unintended radiation"

Notes:
Does NOT Apply no radiation

Section: 11.3 1

"Devices shall be designed and manufactured in such a way that exposure of patients, users and other persons to the emission of unintended, stray or scattered radiation is reduced as far as possible."

Notes:
Does NOT Apply no radiation

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Section: 11.4

"Instructions"

Notes:
Does NOT Apply no radiation

Section: 11.4 1

"The operating instructions for devices emitting radiation must give detailed information as to the nature of the emitted radiation, means of protecting the patient and the user and on ways of avoiding misuse and of eliminating the risks inherent in installation."

Notes:
Does NOT Apply no radiation

Section: 11.5

"Ionizing radiation"

Notes:
Does NOT Apply no ionizing radiation

Section: 11.5 1

"Devices intended to emit ionizing radiation must be designed and manufactured in such a way as to ensure that, where practicable, the quantity, geometry and quality of radiation emitted can be varied and controlled taking into account the intended use."

Notes:
Does NOT Apply no ionizing radiation

Section: 11.5 2

"Devices emitting ionizing radiation intended for diagnostic radiology shall be designed and manufactured in such a way as to achieve appropriate image and/or output quality for the intended medical purpose whilst minimizing radiation exposure of the patient and user."

Notes:
Does NOT Apply no ionizing radiation

Section: 11.5 3

"Devices emitting ionizing radiation, intended for therapeutic radiology shall be designed and manufactured in such a way as to enable reliable monitoring and control of the delivered dose, the beam type and energy and where appropriate the quality of radiation."

Notes:
Does NOT Apply no ionizing radiation

Section: 12

"Requirements for medical devices connected to or equipped with an energy source

"

Notes:
Does NOT Apply section header

Section: 12.1 i

"Devices incorporating electronic programmable systems must be designed to ensure the repeatability, reliability and performance of these systems according to the intended use. In the event of a single fault condition (in the system) appropriate means should be adopted to eliminate or reduce as far as possible consequent risks."

Notes:
Does NOT Apply No electronic programmable system

Section: 12.1 ii

"For devices which incorporate software or which are medical software in themselves, the software must be validated according to the state of the art taking into account the principles of development lifecycle, risk management, validation and verification"

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Notes:
Does NOT Apply

Section: 12.2

"Devices where the safety of the patients depends on an internal power supply must be equipped with a means of determining the state of the power supply.
"

Notes:
Does NOT Apply no safety- relevant power sources

Section: 12.3

"Devices where the safety of the patients depends on an external power supply must include an alarm system to signal any power failure.

"

Notes:
Does NOT Apply no safety- relevant power sources

Section: 12.4

"Devices intended to monitor one or more clinical parameters of a patient must be equipped with appropriate alarm systems to alert the user of situations which could lead to death or severe deterioration of the patient's state of health."

Notes:
Does NOT Apply sensor measures only inspirational oxygen concentration

Section: 12.5

"Devices must be designed and manufactured in such a way as to minimize the risks of creating electromagnetic fields which could impair the operation of other devices or equipment in the usual environment."

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Notes:
Does NOT Apply Only applicable in connection with the measuring unit

Section: 12.6

"Protection against electrical risks
Devices must be designed and manufactured in such a way as to avoid, as far as possible, the risk of accidental electric shocks during normal use and in single fault condition, provided the devices are installed correctly."

Notes:
Does NOT Apply limited energy circuit

Section: 12.7

"Protection against mechanical and thermal risks"

Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#20842 Envitec Oxygen Sensors External Test Results and Certificates ISO 80601-2-55 CONFIDENTIAL FILES

Section: 12.7 1

"Devices must be designed and manufactured in such a way as to protect the patient and user against mechanical risks connected with, for example, resistance, stability and moving parts.
"

Notes:
Does NOT Apply

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Section: 12.7 2

"Devices must be designed and manufactured in such a way as to reduce to the lowest possible level the risks arising from vibration generated by the devices, taking account of technical progress and of the means available for limiting vibrations, particularly at source, unless the vibrations are part of the specified performance."

Notes:
Does NOT Apply

Section: 12.7 3

"Devices must be designed and manufactured in such a way as to reduce to the lowest possible level the risks arising from the noise emitted, taking account of technical progress and of the means available to reduce noise, particularly at source, unless the noise emitted is part of the specified performance.
"

Notes:
Does NOT Apply

Section: 12.7 4

"Terminals and connectors to the electricity, gas or hydraulic and pneumatic energy supplies which the user has to handle must be designed and constructed in such a way as to minimize all possible risks."

Notes:
Does NOT Apply

Section: 12.7 5

"Accessible parts of the devices (excluding the parts or areas intended to supply heat or reach given temperatures) and their surroundings must not attain potentially dangerous temperatures under normal use."

Notes:
Does NOT Apply Limited energy

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Section: 12.8

"Protection against the risks posed to the patient by energy supplies or substances
"

Notes:
Does NOT Apply no energy supplies or substances to patients

Section: 12.8 1

"Devices for supplying the patient with energy or substances must be designed and constructed in such a way that the flow-rate can be set and maintained accurately enough to guarantee the safety of the patient and of the user."

Notes:
Does NOT Apply no energy supplies or substances to patients

Section: 12.8 2

"Devices must be fitted with the means of preventing and/or indicating any inadequacies in the flow-rate which could pose a danger. Devices must incorporate suitable means to prevent, as far as possible, the accidental release of dangerous levels of energy from an energy and/or substance source."

Notes:
Does NOT Apply no energy supplies or substances to patients

Section: 12.9

"The function of the controls and indicators must be clearly specified on the devices.
Where a device bears instructions required for its operation or indicates operating or adjustment parameters by means of a visual system, such information must be understandable to the user and, as appropriate, the patient."

Notes:
Does NOT Apply sensor without display unit or user interface only

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Section: 13

"Information supplied by the manufacturer

"

Supporting Document IDs
#20852 Viamed`s Envitec Oxygen Sensors Risk Asssesment
#20850 Envitec Oxygen Sensors Residual Risks Risk Management Master File CONFIDENTIAL FILES
#18100 Envitec Oxygen Sensors Risk management document for the system
#17642 Envitec Oxygen Sensors viamed Labels
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Section: 13.1

"Each device must be accompanied by the information needed to use it safely and properly, taking account of the training and knowledge of the potential users, and to identify the manufacturer.
This information comprises the details on the label and the data in the instructions for use. As far as practicable and appropriate, the information needed to use the device safely must be set out on the device itself and/or on the
packaging for each unit or, where appropriate, on the sales packaging. If individual packaging of each unit is not practicable, the information must be set out in the leaflet supplied with one or more devices. Instructions for use must be included in the packaging for every device. By way of exception, no such instructions for use are needed for devices in Class I or IIa if they can be used safely without any such instructions."

Supporting Document IDs
#17643 Envitec Oxygen Sensors Labels (Signed scan)
#17642 Envitec Oxygen Sensors viamed Labels
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Section: 13.2

"Where appropriate, this information should take the form of symbols. Any symbol or identification colour used must conform to the harmonized standards. In areas for which no standards exist, the symbols and colours must be described in the documentation supplied with the device."

Standards Applied
BS EN ISO 15223-1:2012

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#17642 Envitec Oxygen Sensors viamed Labels

Section: 13.3

"The label must bear the following particulars:"

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Section: 13.3 a

"the name or trade name and address of the manufacturer. For devices imported into the Community, in view of their distribution in the Community, the label, or the outer packaging, or instructions for use, shall contain in addition the name and address of the authorised representative where the manufacturer does not have a registered place of business in the Community;"

Standards Applied
BS EN ISO 15223-1:2012

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#17643 Envitec Oxygen Sensors Labels (Signed scan)
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Notes:
No Authorised representative

Section: 13.3 b

"the details strictly necessary to identify the device and the contents of the packaging especially for the users;"

Standards Applied
BS EN ISO 15223-1:2012

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Section: 13.3 c

"where appropriate, the word ‘STERILE’;"

Notes:
Does NOT Apply no sterilisation

Section: 13.3 d

"where appropriate, the batch code, preceded by the word ‘LOT’,or the serial number;"

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Notes:
serial number on label

Section: 13.3 e

"where appropriate, an indication of the date by which the device should be used, in safety, expressed as the year and month; (e). This indication may be included in the batch or serial number;"

Notes:
Does NOT Apply Regular self check and calibration of the monitor

Section: 13.3 f

"where appropriate, an indication that the device is for single use. A manufacturer's indication of single use must be consistent across the Community;"

Notes:
Does NOT Apply Not Single Use

Section: 13.3 g

"if the device is custom-made, the words ‘custom-made device’;"

Notes:
Does NOT Apply Not Custom Made

Section: 13.3 h

"if the device is intended for clinical investigations, the words ‘exclusively for clinical investigations’;
"

Notes:
Does NOT Apply Not for clinical investigations

Section: 13.3 i

"any special storage and/or handling conditions;"

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Section: 13.3 j

"any special operating instructions;"

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Section: 13.3 k

"any warnings and/or precautions to take;"

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Section: 13.3 l

"year of manufacture for active devices other than those covered by (e). This indication may be included in the batch or serial number;"

Standards Applied
BS EN ISO 15223-1:2012

Supporting Document IDs
#17642 Envitec Oxygen Sensors viamed Labels

Notes:
Label both on product and primary packaging

Section: 13.3 m

"where applicable, method of sterilization;"

Notes:
Does NOT Apply Not sterilizalised

Section: 13.3 n

"in the case of a device within the meaning of Article 1(4a), an indication that the device contains a human blood derivative."

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Notes:
Does NOT Apply no derivatives from human blood

Section: 13.4

"If the intended purpose of the device is not obvious to the user, the manufacturer must clearly state it on the label and in the instructions for use."

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Section: 13.5

"Wherever reasonable and practicable, the devices and detachable components must be identified, where appropriate in terms of batches, to allow all appropriate action to detect any potential risk posed by the devices and detachable components."

Supporting Document IDs
#17642 Envitec Oxygen Sensors viamed Labels

Notes:
SN on label

Section: 13.6

"Where appropriate, the instructions for use must contain the following particulars: "

Section: 13.6 a

"the details referred to in Section 13.3, with the exception of (d) and (e);"

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Supporting Document IDs
#17642 Envitec Oxygen Sensors viamed Labels

Section: 13.6 b

"the performances referred to in Section 3 and any undesirable side effects;"

Supporting Document IDs
#17847 Envitec Oxygen Sensors Material Safety Data Sheet
#17842 MSDS Viamed Oxygen Sensors
#17642 Envitec Oxygen Sensors viamed Labels
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Notes:
Reference in Instructions for Use and technical data sheet

Section: 13.6 c

"if the device must be installed with or connected to other medical devices or equipment in order to operate as required for its intended purpose, sufficient details of its characteristics to identify the correct devices or equipment to use in order to obtain a safe combination;"

Supporting Document IDs
#20887 Envitec Oxygen Sensors Competitors Information patients and Market Research Known equivalents
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Notes:
Reference in Instructions for Use with link to Cross Reference List www.viamed.co.uk

Section: 13.6 d

"all the information needed to verify whether the device is properly installed and can operate correctly and safely, plus details of the nature and frequency of the maintenance and calibration needed to ensure that the devices operate properly and safely at all times;"

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Supporting Document IDs
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Notes:
Does NOT Apply IFU of the equipment should be used

Section: 13.6 e

"where appropriate, information to avoid certain risks in connection with implantation of the device;"

Notes:
Does NOT Apply no implantable product

Section: 13.6 f

"information regarding the risks of reciprocal interference posed by the presence of the device during specific investigations or treatment; "

Notes:
Does NOT Apply

Section: 13.6 g

"the necessary instructions in the event of damage to the sterile packaging and, where appropriate, details of appropriate methods of resterilization;"

Notes:
Does NOT Apply not sterile

Section: 13.6 h

"if the device is reusable, information on the appropriate processes to allow reuse, including cleaning, disinfection, packaging and, where appropriate, the method of sterilization of the device to be resterilized, and any restriction on the number of reuses. Where devices are supplied with the intention that they be sterilized before use, the instructions for cleaning and sterilization must be such that, if correctly followed, the device will still comply with the requirements in Section I.
If the device bears an indication that the device is for single use, information on known characteristics and technical factors known to the manufacturer that could pose a risk if the device were to be re-used. If in accordance with Section 13.1 no instructions for use are needed, the information must be made available to the user upon request;"

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Supporting Document IDs
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Notes:
IFU and IFU of the main equipment should be usednot sterile

Section: 13.6 i

"details of any further treatment or handling needed before the device can be used (for example, sterilization, final assembly, etc.);"

Supporting Document IDs
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Section: 13.6 j

"in the case of devices emitting radiation for medical purposes, details of the nature, type, intensity and distribution of this radiation."

Notes:
Does NOT Apply No radiation

Section: 13.6

"The instructions for use must also include details allowing the medical staff to brief the patient on any contra-indications and any precautions to be taken. These details should cover in particular:"

Notes:
Does NOT Apply

Section: 13.6 k

"precautions to be taken in the event of changes in the performance of the device;"

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Notes:
Does NOT Apply

Section: 13.6 l

"precautions to be taken as regards exposure, in reasonably foreseeable environmental conditions, to magnetic fields, external electrical influences, electrostatic discharge, pressure or variations in pressure, acceleration, thermal ignition sources, etc.;"

Notes:
Does NOT Apply

Section: 13.6 m

"adequate information regarding the medicinal product or products which the device in question is designed to administer, including any limitations in the choice of substances to be delivered;"

Notes:
Does NOT Apply no medicines

Section: 13.6 n

"precautions to be taken against any special, unusual risks related to the disposal of the device;
"

Supporting Document IDs
#17842 MSDS Viamed Oxygen Sensors
#17642 Envitec Oxygen Sensors viamed Labels
#16693 Instructions for Use - Viamed Medical Oxygen Sensors

Notes:
we offer special disposal service

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Section: 13.6 o

"medicinal substances, or human blood derivatives incorporated into the device as an integral part in accordance with Section 7.4;"

Notes:
Does NOT Apply no derivatives, no human blood

Section: 13.6 p

"degree of accuracy claimed for devices with a measuring function;"

Notes:
Does NOT Apply no measuring function

Section: 13.6 q

"date of issue or the latest revision of the instructions for use."

Supporting Document IDs
#16693 Instructions for Use - Viamed Medical Oxygen Sensors