

SLOVENSKI STANDARD SIST EN 60601-2-24:2015

01-september-2015

Nadomešča: SIST EN 60601-2-24:1998

Medicinska električna oprema - 2-24. del: Posebne zahteve za osnovno varnost in bistvene lastnosti infuzijskih črpalk in krmilnikov

Medical electrical equipment - Part 2-24: Particular requirements for basic safety and essential performance of infusion pumps and controllers

Medizinische elektrische Geräte - Teil 2-24: Besondere Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale von Infusionspumpen und Infusionsreglern

SIST EN 60601-2-24:2015

Appareils électromédicaux de Rartie 2-24 Exigences particulières pour la sécurité de base et les performances essentielles des pompes et régulateurs de perfusion

Ta slovenski standard je istoveten z: EN 60601-2-24:2015

ICS:

11.040.20Transfuzijska, infuzijska in
injekcijska opremaTransfusion, infusion and
injection equipment

SIST EN 60601-2-24:2015

en

SIST EN 60601-2-24:2015

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 60601-2-24:2015

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 60601-2-24

May 2015

ICS 11.040.20

Supersedes EN 60601-2-24:1998

English Version

Medical electrical equipment - Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers (IEC 60601-2-24:2012)

Appareils électromédicaux - Partie 2-24: Exigences particulières pour la sécurité de base et les performances essentielles des pompes et régulateurs de perfusion (IEC 60601-2-24:2012) Medizinische elektrische Geräte - Teil 2-24: Besondere Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale von Infusionspumpen und Infusionsreglern (IEC 60601-2-24:2012)

This European Standard was approved by CENELEC on 2015-04-14. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member. **ICLA CONCENELEC**.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions. dards. itch. ai/catalog/standards/sist/9ac8519d-47dc-4805-8402a34909880df4/sist-en-60601-2-24-2015

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 62D/1026/FDIS, future edition 2 of IEC 60601-2-24, prepared by SC 62D "Electromedical equipment", of IEC/TC 62 "Electrical equipment in medical practice" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60601-2-24:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at (dop) 2016-01-14 national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2018-04-14 the document have to be withdrawn

This document supersedes EN 60601-2-24:1998.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive 93/42/EEC, see informative Annex ZZ, which is an integral part of this document. https://standards.iteh.ai/catalog/standards/sist/9ac8519d-47dc-4805-8402-a34909880df4/sist-en-60601-2-24-2015

Endorsement notice

The text of the International Standard IEC 60601-2-24:2012 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated :

IEC 61000-4-2 NOTE Harmonized as EN 61000-4-2.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: <u>www.cenelec.eu</u>.

Annex ZA of EN 60601-1:2006 applies, except as follows:

Publication	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	Year
Replacement in An	nex ZA	of EN 60601-1:2006:		
IEC 60601-1-2 (mod) -	2007 iTe	Medical electrical equipment - Part 1-2. General requirements for basic - safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	EN 60601-1-2 Vorrigendum Mar.	2007 2010
IEC 60601-1-6	2010 ps://stand	Medical electrical equipment 15 Part 1-6: General requirements for basic48 safety and essential performance 015 Collateral standard: Usability	EN 60601-1-6 05-8402-	2010
IEC 60601-1-8	2006	Medical electrical equipment -	EN 60601-1-8	2007
-	-	Part 1-8: General requirements for basic safety and essential performance - Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems	+ corrigendum Mar.	2010
Addition to Annex	ZA of E	EN 60601-1:2006:		
IEC 60601-1 - + A1	2005 - 2012	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	EN 60601-1 + corrigendum Mar. + A1	2006 2010 2013
-	-		+ A1/AC	2014
-	-		+ A12	2014
ISO 3696	1987	Water for analytical laboratory use - Specification and test methods	EN ISO 3696	1995
ISO 7864	-	Sterile hypodermic needles for single use	EN ISO 7864	-
ISO 8536-4	-	Infusion equipment for medical use - Part 4: Infusion sets for single use, gravity feed	EN ISO 8536-4	-

Annex ZZ

(informative)

Coverage of Essential Requirements of EU Directives

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and within its scope the Standard covers all relevant essential requirements given in Annex I of EU Directive 93/42/EEC of 14 June 1993 concerning medical devices.

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive concerned.

WARNING: Other requirements and other EU Directives can be applied to the products falling within the scope of this standard.

iTeh STANDARD PREVIEW (standards.iteh.ai)





Edition 2.0 2012-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Medical electrical equipment ANDARD PREVIEW Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers

SIST EN 60601-2-24:2015

Appareils électromédicauxenai/catalog/standards/sist/9ac8519d-47dc-4805-8402-

Partie 2-24: Exigences particulières pour la sécurité de base et les performances essentielles des pompes et régulateurs de perfusion

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE



ICS 11.040.20

ISBN 978-2-83220-417-7

Warning! Make sure that you obtained this publication from an authorized distributor. Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.

 Registered trademark of the International Electrotechnical Commission Marque déposée de la Commission Electrotechnique Internationale

CONTENTS

FOREW	ORD	.4		
INTROD	UCTION	.6		
201.1	Scope, object and related standards	.7		
201.2	Normative references	.9		
201.3	Terms and definitions	.9		
201.4	General requirements	12		
201.5	General requirements for testing of ME EQUIPMENT	13		
201.6	Classification of ME EQUIPMENT and ME SYSTEMS	13		
201.7	ME EQUIPMENT identification, marking and documents	13		
201.8	Protection against electrical HAZARDS from ME EQUIPMENT	15		
201.9	Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS	16		
201.10	Protection against unwanted and excessive radiation HAZARDS	16		
201.11	Protection against excessive temperatures and other HAZARDS	16		
201.12	*Accuracy of controls and instruments and protection against hazardous outputs	17		
201.13	HAZARDOUS SITUATIONS and fault conditions	35		
201.14	PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS)	35		
201.15	Construction of ME EQUIPMENT	35		
201.16	ME SYSTEMS	37		
201.17	Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	37		
202	Electromagnetic compatibility Requirements and tests -4805-8402-	37		
206	Usabilitya34909880df4/sist-en-60601-2-24-2015	38		
208	General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems	38		
Annexes	· · · ·	42		
Annex A	A (informative) Particular guidance and rationale	43		
Bibliogra	iphy	58		
Index of	Index of defined terms used in this particular standard5			
Figure 2	01.103 – Analysis periods	22		
Figure 20	01.104a – Test apparatus for VOLUMETRIC INFUSION PUMPS and VOLUMETRIC	22		
Figure 2	01.104b – Test apparatus for SYRINGE OR CONTAINER PUMPS	23		
Figure 2	01.104 – Test apparatuses for different types of INFUSION PUMPS	23		
Figure 20 test perio	01.105 – Start-up graph plotted from data gathered during the first 2 h of the	23		
Figure 2 the test p	01.106 – Trumpet curve plotted from data gathered during the second hour of period	24		
Figure 201.107 – Trumpet curve plotted from data gathered during the last hour of the ADMINISTRATION SET CHANGE INTERVAL24				
Figure 201.108 – Start-up graph over the stabilization period25				
Figure 201.109 – Trumpet curve plotted from data at the end of the stabilization period25				

Figure 201.110 – Start-up curve over the stabilization period for quasi-continuous output pumps	26
Figure 201.111 – Trumpet curve plotted from data at the end of the stabilization period for quasi-continuous pumps	26
Figure 201.112 – Test apparatus to determine the OCCLUSION ALARM THRESHOLD and BOLUS volumes	3
Figure AA.101 – Start-up graph4	.9
Figure AA.102 – Trumpet curve4	.9
Figure AA.103 – Calculation for $E_p(max.)$ and $E_p(min.)$	52
Figure AA.104 – Sampling protocol	53
Figure AA.105 – Observation windows5	64
Figure AA.106 – Distribution of parent variate X5	5
Figure AA.107 – Distribution of observation windows	6
Figure AA.108 – The statistical trumpet graph5	6
Table 201.101 – Distributed ESSENTIAL PERFORMANCE requirements 1	2
Table 201.102 – Set rates, BOLUS volumes and test apparatus for the accuracy tests of12.1.102 to 12.1.107	51
Table 202.101 – Test levels	57
Table 208.101 – ALARM CONDITION priorities and related situations	9
Table 208.102 - * Characteristics of the PULSE of auditory ALARM SIGNALS	0

INTERNATIONAL ELECTROTECHNICAL COMMISSION

MEDICAL ELECTRICAL EQUIPMENT -

Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committee; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, EC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- https://standards.iteh.ai/catalog/standards/sist/9ac8519d-47dc-4805-8402 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International standard IEC 60601-2-24 has been prepared by IEC subcommittee 62D: Electromedical equipment, of IEC technical committee 62: Electrical equipment in medical practice.

This second edition cancels and replaces the first edition of IEC 60601-2-24 published in 1998. This edition constitutes a technical revision according to IEC 60601-1:2005+A1:2012 with new clause numbering, including usability and alarms.

The text of this particular standard is based on the following documents:

FDIS	Report on voting
62D/1026/FDIS	62D/1039/RVD

Full information on the voting for the approval of this particular standard can be found in the report on voting indicated in the above table.

60601-2-24 © IEC:2012

- 5 -

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

In this standard, the following print types are used:

- Requirements and definitions: roman type.
- Test specifications: italic type.
- Informative material appearing outside of tables, such as notes, examples and references: in smaller type.
 Normative text of tables is also in a smaller type.
- TERMS DEFINED IN CLAUSE 3 OF THE GENERAL STANDARD, IN THIS PARTICULAR STANDARD OR AS NOTED: SMALL CAPITALS.

In referring to the structure of this standard, the term

- "clause" means one of the seventeen numbered divisions within the table of contents, inclusive of all subdivisions (e.g. Clause 7 includes subclauses 7.1, 7.2, etc.);
- "subclause" means a numbered subdivision of a clause (e.g. 7.1, 7.2 and 7.2.1 are all subclauses of Clause 7).

References to clauses within this standard are preceded by the term "Clause" followed by the clause number. References to subclauses within this particular standard are by number only.

In this standard, the conjunctive "or" is used as an "inclusive or" so a statement is true if any combination of the conditions is true.

The verbal forms used in this standard conform to usage described in Annex H of the ISO/IEC Directives, Part 2. For the purposes of this standard, the auxiliary verb:

- "shall" means that compliance with Tallequirement(of a test is mandatory for compliance with this standard;://standards.iteh.ai/catalog/standards/sist/9ac8519d-47dc-4805-8402-
- "should" means that compliance with a requirement or a test is recommended but is not mandatory for compliance with this standard;
- "may" is used to describe a permissible way to achieve compliance with a requirement or test.

An asterisk (*) as the first character of a title or at the beginning of a paragraph or table title indicates that there is guidance or rationale related to that item in Annex AA.

A list of all parts of the IEC 60601 series, published under the general title *Medical electrical equipment*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

This particular standard deals with the safety of INFUSION PUMPS and INFUSION CONTROLLERS. The relationship between this particular standard, IEC 60601-1:2005+A1:2012, and the collateral standards is explained in 1.3.

The safe use of INFUSION PUMPS and controllers is primarily the responsibility of the OPERATOR. It is also recognized that OPERATORS should be trained in the operation of MEDICAL ELECTRICAL EQUIPMENT and that safe use of the MEDICAL ELECTRICAL EQUIPMENT can only be achieved if it is operated in accordance with the MANUFACTURER'S instructions for use. The minimum specified safety requirements are considered to provide a practical degree of safety in operation. It is the responsibility of the MANUFACTURER to ensure that the requirements of this particular standard are reliably implemented. This particular standard has been developed in accordance with these principles.

iTeh STANDARD PREVIEW (standards.iteh.ai)

MEDICAL ELECTRICAL EQUIPMENT –

Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers

201.1 Scope, object and related standards

Clause 1 of the general standard¹ applies, except as follows:

201.1.1 Scope

Replacement:

This Particular Standard applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE of INFUSION PUMPS and VOLUMETRIC INFUSION CONTROLLERS, hereafter referred to as ME EQUIPMENT.

This standard applies to ADMINISTRATION SETS insofar as their characteristics influence the BASIC SAFETY OR ESSENTIAL PERFORMANCE OF INFUSION PUMPS and VOLUMETRIC INFUSION CONTROLLERS. However this standard does not specify requirements or tests for other aspects of ADMINISTRATION SETS The STANDARD PREVIEW

If a clause or subclause is specifically intended to be applicable to ME EQUIPMENT only, or to ME SYSTEMS only, the title and content of that clause or subclause will say so. If that is not the case, the clause or subclause applies both to ME EQUIPMENT and to ME SYSTEMS, as relevant.

HAZARDS inherent in the intended physiological function of ME EQUIPMENT or ME SYSTEMS within the scope of this standard are not covered by specific requirements in this standard except in 7.2.13 and 8.4.1 of the general standard.

NOTE See also 4.2 of the general standard.

This particular standard specifies the requirements for ENTERAL NUTRITION PUMPS, INFUSION PUMPS, INFUSION PUMPS FOR AMBULATORY USE, SYRINGE OR CONTAINER PUMPS, VOLUMETRIC INFUSION CONTROLLERS and VOLUMETRIC INFUSION PUMPS, as defined in 201.3.204, 201.3.206, 201.3.207, 201.3.220, 201.3.222 and 201.3.223.

These particular standard does not apply to the following:

- a) devices specifically intended for diagnostic or similar use (e.g. angiography or other pumps permanently controlled or supervised by the OPERATOR);
- b) devices for extracorporeal circulation of blood;
- c) implantable devices;
- ME EQUIPMENT specifically intended for diagnostic use within urodynamics (measurement of pressure-volume relationship of the urinary bladder when filled through a catheter with water);
- e) ME EQUIPMENT specifically intended for diagnostic use within male impotence testing (measurement of amount of liquid infused, necessary to maintain a preset pressure level for maintaining penile erection: cavernosometry, cavernosography);
- f) devices covered by ISO 28620.

¹ The general standard is IEC 60601-1:2005+A1:2012, *Medical electrical equipment – Part 1: General requirements for basic safety and essential performance.*

201.1.2 Object

Replacement:

The object of this particular standard is to establish particular BASIC SAFETY and ESSENTIAL PERFORMANCE requirements for ENTERAL NUTRITION PUMPS, INFUSION PUMPS, INFUSION PUMPS FOR AMBULATORY USE, SYRINGE OR CONTAINER PUMPS, VOLUMETRIC INFUSION CONTROLLERS and VOLUMETRIC INFUSION PUMPS, as defined in 201.3.204, 201.3.206, 201.3.207, 201.3.220, 201.3.222 and 201.3.223.

201.1.3 Collateral standards

Addition:

This particular standard refers to those applicable collateral standards that are listed in Clause 2 of the general standard and Clause 201.2 of this particular standard.

IEC 60601-1-2:2007, IEC 60601-1-6:2010 and IEC 60601-1-8:2006 apply as modified in Clauses 202, 206 and 208 respectively. IEC 60601-1-3 does not apply. All other published collateral standards in the IEC 60601-1 series apply as published.

201.1.4 Particular standards

Replacement:

iTeh STANDARD PREVIEW

In the IEC 60601 series, particular standards may modify, replace or delete requirements contained in the general standard and collateral standards as appropriate for the particular ME EQUIPMENT under consideration, and may add other BASIC SAFETY and ESSENTIAL PERFORMANCE requirements. <u>SIST EN 60601-2-242015</u>

https://standards.iteh.ai/catalog/standards/sist/9ac8519d-47dc-4805-8402-

A requirement of a particular standard takes priority (over the general standard.

For brevity, IEC 60601-1 is referred to in this particular standard as the general standard. Collateral standards are referred to by their document number.

The numbering of clauses and subclauses of this particular standard corresponds to that of the general standard with the prefix "201" (e.g. 201.1 in this standard addresses the content of Clause 1 of the general standard) or applicable collateral standard with the prefix "20x" where x is the final digit(s) of the collateral standard document number (e.g. 202.4 in this particular standard addresses the content of Clause 4 of the 60601-1-2 collateral standard, 203.4 in this particular standard addresses the content of Clause 4 of the 60601-1-3 collateral standard, etc.). The changes to the text of the general standard are specified by the use of the following words:

"Replacement" means that the clause or subclause of the general standard or applicable collateral standard is replaced completely by the text of this particular standard.

"Addition" means that the text of this particular standard is additional to the requirements of the general standard or applicable collateral standard.

"Amendment" means that the clause or subclause of the general standard or applicable collateral standard is amended as indicated by the text of this particular standard.

Subclauses, figures or tables which are additional to those of the general standard are numbered starting from 201.101. However, due to the fact that definitions in the general standard are numbered 3.1 through 3.139, additional definitions in this standard are numbered beginning from 201.3.201. Additional annexes are lettered AA, BB, etc., and additional items aa), bb), etc.

60601-2-24 © IEC:2012

Subclauses, figures or tables which are additional to those of a collateral standard are numbered starting from 20x, where "x" is the number of the collateral standard, e.g. 202 for IEC 60601-1-2, 203 for IEC 60601-1-3, etc.

The term "this standard" is used to make reference to the general standard, any applicable collateral standards and this particular standard taken together.

Where there is no corresponding clause or subclause in this particular standard, the clause or subclause of the general standard or applicable collateral standard, although possibly not relevant, applies without modification; where it is intended that any part of the general standard or applicable collateral standard, although possibly relevant, is not to be applied, a statement to that effect is given in this particular standard.

201.2 Normative references

Clause 2 of the general standard applies, except as follows:

Replacement:

IEC 60601-1-2:2007, Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility – Requirements and tests

IEC 60601-1-6:2010, Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard Usability

IEC 60601-1-8:2006, Medical electrical equipment – Part 1-8: General requirements for basic safety and essential performance SISCollateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems a34909880df4/sist-en-60601-2-24-2015

Addition:

IEC 60601-1:2005, Medical electrical equipment – Part 1: General requirements for basic safety and essential performance Amendment 1:2012

ISO 3696:1987, Water for analytical laboratory use – Specification and test methods

ISO 7864, Sterile hypodermic needles for single use

ISO 8536-4, Infusion equipment for medical use – Part 4: Infusion sets for single use, gravity feed

201.3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60601-1:2005+A1:2012, apply, except as follows:

NOTE An index of defined terms is found beginning on page 57.

Replacement:

201.3.8 APPLIED PART

part of ME EQUIPMENT, including the infusion liquid pathway, that in NORMAL USE necessarily comes into physical contact with the PATIENT for ME EQUIPMENT to perform its function