



**SLOVENSKI STANDARD**  
**SIST EN 60601-1-9:2008**  
**01-julij-2008**

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V]ghj YbY`Ughbcgh]!`GdfYa `Yj Ub]`ghUbXUX. NU hYj Y'nUc\_c`g\_c`cgj Yý Ybc  
gbcj Ub`Y`f]7 `\* \$\* \$%-%- .&\$ \$+L

Medical electrical equipment - Part 1-9: General requirements for basic safety and essential performance - Collateral Standard: Requirements for environmentally conscious design (IEC 60601-1-9:2007)

**iTeh STANDARD PREVIEW**

Medizinische elektrische Geräte - Teil 1-9: Allgemeine Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale - Ergänzungsnorm: Anforderungen zur Reduzierung von Umweltauswirkungen (IEC 60601-1-9:2007)

[SIST EN 60601-1-9:2008](https://standards.iteh.ai/catalog/standards/sist/9d28bde1-737b-4a9d-bd4b-9a0c9a212000/iec-60601-1-9:2007)

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Appareils électromédicaux - Partie 1-9: Exigences générales pour la sécurité de base et les performances essentielles - Norme collatérale: Exigences pour une conception éco-responsable (CEI 60601-1-9:2007)

**Ta slovenski standard je istoveten z: EN 60601-1-9:2008**

**ICS:**

11.040.01	Medicinska oprema na splošno	Medical equipment in general
13.020.01	Okolje in varstvo okolja na splošno	Environment and environmental protection in general

**SIST EN 60601-1-9:2008**

**en**

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**Medical electrical equipment -  
Part 1-9: General requirements  
for basic safety and essential performance -  
Collateral Standard:  
Requirements for environmentally conscious design  
(IEC 60601-1-9:2007)**

Appareils électromédicaux -  
Partie 1-9: Exigences générales  
pour la sécurité de base  
et les performances essentielles -  
Norme collatérale: Exigences  
pour une conception éco-responsable  
(CEI 60601-1-9:2007)

Medizinische elektrische Geräte -  
Teil 1-9: Allgemeine Festlegungen  
für die Sicherheit einschließlich  
der wesentlichen Leistungsmerkmale -  
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zur Reduzierung  
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This European Standard was approved by CENELEC on 2008-04-16. 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 Central Secretariat or to any CENELEC member.

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 Central Secretariat has the same status as the official versions.

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

## CENELEC

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 62A/571/FDIS, future edition 1 of IEC 60601-1-9, prepared by SC 62A, Common aspects of electrical equipment used in medical practice, of IEC TC 62, Electrical equipment in medical practice, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60601-1-9 on 2008-04-16.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2009-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-05-01

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive 93/42/EEC. See Annex ZZ.

This European Standard constitutes a collateral standard to EN 60601-1:2006, hereafter referred to as the general standard.

In the 60601 series of publications, collateral standards specify general requirements for safety applicable to

- a subgroup of MEDICAL ELECTRICAL EQUIPMENT (e.g. radiological equipment); or
- a specific characteristic of all MEDICAL ELECTRICAL EQUIPMENT, not fully addressed in the general standard (e.g. alarm systems).

In this collateral 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 COLLATERAL STANDARD OR AS NOTED: SMALL CAPITALS.

In referring to the structure of this standard, the term

- “clause” means one of the four numbered divisions within the table of contents, inclusive of all subdivisions (e.g. Clause 4 includes Subclauses 4.1, 4.2, etc.);
- “subclause” means a numbered subdivision of a clause (e.g. 4.1, 4.5 and 4.5.1 are all subclauses of Clause 4).

References to clauses within this standard are preceded by the term “Clause” followed by the clause number. References to subclauses within this 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 a requirement or a test is mandatory for compliance with this standard;
- “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.

Clauses, subclauses and definitions for which a rationale is provided in informative Annex A are marked with an asterisk (\*).

Annexes ZA and ZZ have been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 60601-1-9:2007 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:

ISO 14001	NOTE	Harmonized as EN ISO 14001:2004 (not modified).
ISO 14021	NOTE	Harmonized as EN ISO 14021:2004 (not modified).
ISO 14040	NOTE	Harmonized as EN ISO 14040:2006 (not modified).

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eed10e169ae1/sist-en-60601-1-9-2008](https://standards.iteh.ai/catalog/standards/sist/9d28bde1-737b-4a9d-bd4b-eed10e169ae1/sist-en-60601-1-9-2008)

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60601-1	2005	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	EN 60601-1	2006

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**Annex ZZ**  
(informative)

**Coverage of Essential Requirements of EC 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 the following essential requirements as given in Annex I of the EC Directive 93/42/EEC:

1, 2, 4, 7.1, 7.5, 12.7.2, 12.7.3, 13.1, 13.3 and 13.6.

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

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

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eed10e169ae1/sist-en-60601-1-9-2008](https://standards.iteh.ai/catalog/standards/sist/9d28bde1-737b-4a9d-bd4b-eed10e169ae1/sist-en-60601-1-9-2008)

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INTERNATIONAL  
STANDARD

IEC  
CEI

NORME  
INTERNATIONALE

60601-1-9

First edition  
Première édition  
2007-07

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**Medical electrical equipment –**

**Part 1-9:**

**General requirements for basic  
safety and essential performance –**

**Collateral Standard: Requirements for  
environmentally conscious design**  
(standards.iteh.ai)

**Appareils électromédicaux –**

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**Partie 1-9:**

**Exigences générales pour la sécurité  
de base et les performances essentielles –**

**Norme collatérale: Exigences pour une  
conception éco-responsable**



Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

PRICE CODE  
CODE PRIX

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*For price, see current catalogue  
Pour prix, voir catalogue en vigueur*

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MEDICAL ELECTRICAL EQUIPMENT –****Part 1-9: General requirements for basic safety  
and essential performance –  
Collateral Standard:  
Requirements for environmentally conscious design**

## 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 committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International standard IEC 60601-1-9 has been prepared by IEC subcommittee 62A: Common aspects of electrical equipment used in medical practice, of IEC technical committee 62: Electrical equipment in medical practice.

This first edition constitutes a collateral standard to IEC 60601-1: *Medical electrical equipment – Part 1: General requirements for safety and essential performance* hereafter referred to as the general standard.

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

FDIS	Report on voting
62A/571/FDIS	62A/575/RVD

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

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

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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.