

Irish Standard I.S. EN IEC 80601-2-49:2019

Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment

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I.S. EN IEC 80601-2-49:2019

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I.S. EN IEC 80601-2-49:2019 is the adopted Irish version of the European Document EN IEC 80601-2-49:2019, Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment

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EN IEC 80601-2-49

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2019

ICS 11.040.55

Supersedes EN 60601-2-49:2015 and all of its amendments and corrigenda (if any)

English Version

Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment

(IEC 80601-2-49:2018)

Appareils électromédicaux - Partie 2-49: Exigences particulières pour la sécurité de base et les performances essentielles des appareils de surveillance multifonction des patients
(IEC 80601-2-49:2018)

Medizinische elektrische Geräte - Teil 2-49: Besondere Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale von multifunktionalen Patientenüberwachungsgeräten (IEC 80601-2-49:2018)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 80601-2-49:2019 (E)

European foreword

The text of document 62D/1547/FDIS, future edition 1.0 of IEC 80601-2-49, 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 IEC 80601-2-49:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2020-05-07 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-08-07

This document supersedes EN 60601-2-49:2015.

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60601-2-16	NOTE	Harmonized as EN IEC 60601-2-16
ISO 80601-2-13	NOTE	Harmonized as EN ISO 80601-2-13
ISO 80601-2-56	NOTE	Harmonized as EN ISO 80601-2-56
ISO 80601-2-72	NOTE	Harmonized as EN ISO 80601-2-72
IEC 62366-1:2015	NOTE	Harmonized as EN 62366-1:2015 (not modified)

EN IEC 80601-2-49:2019 (E)

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where 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: www.cenelec.eu.

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

Publication Replacement	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60601-1-2	2014	Medical electrical equipment - Part General requirements for basic safety essential performance - Collar Standard: Electromagnetic disturbance Requirements and tests	and eral	2015
IEC 60601-1-6	2010	Medical electrical equipment - Part General requirements for basic safety essential performance - Collar standard: Usability	and	2010
IEC 60601-1-8	2006	Medical electrical equipment - Part 1-8:EN 60601-1-8 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		
		Systems	+EN 60601- 8:2007/corrigendu Mar. 2010	m
IEC 60529	1989	Degrees of protection provided	+A11 byEN 60529	2017 1991
120 00020	1000	enclosures (IP Code)	5,2.1 00020	1001
			+EN 60529:1991/corrig ndum May 1993	1993 e

EN IEC 80601-2-49:2019 (E)

Publication Addition	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60601-1	2005	Medical electrical equipment - Part General requirements for basic safety a essential performance		2006
		- Constitution of the cons	1:2006/corrigendur Mar. 2010	
			+AC +A11	2014 2011
IEC 60601-1-11	2015	Medical electrical equipment – Part 1-General requirements for basic safety a essential performance - Collate standard: Requirements for medi electrical equipment and medical electric systems used in the home healthcollenvironment	11:- ind iral cal cal	-
IEC 60601-1-12	2014	Medical electrical equipment - Part 1-General requirements for basic safety a essential performance - Collate Standard: Requirements for medi electrical equipment and medical electric systems intended for use in the emerger medical services environment	ind eral cal cal	-
IEC 60601-2-2	2017	Medical electrical equipment - Part 2 Particular requirements for the basic saf	ety igh	2018
IEC 60601-2-27	2011	Medical electrical equipment - Part 2- Particular requirements for the basic saf and essential performance electrocardiographic monitoring equipme	ety of	2014
IEC 60601-2-34	2011	Medical electrical equipment - Part 2- Particular requirements for the basic saf and essential performance of invas blood pressure monitoring equipment	34:EN 60601-2-34 ety	2014



IEC 80601-2-49

Edition 1.0 2018-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Medical electrical equipment -

Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors

Appareils électromédicaux -

Partie 2-49: Exigences particulières pour la sécurité de base et les performances essentielles des moniteurs multifonctions des patients





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IEC 80601-2-49

Edition 1.0 2018-03

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NORME INTERNATIONALE

Medical electrical equipment -

Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors

Appareils électromédicaux -

Partie 2-49: Exigences particulières pour la sécurité de base et les performances essentielles des moniteurs multifonctions des patients

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MEDICAL ELECTRICAL EQUIPMENT -

Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors

FOREWORD

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This first edition cancels and replaces the second edition of IEC 60601-2-49, published in 2011. This edition constitutes a technical revision to align with the current edition and Amendment to IEC 60601-1, new versions of collateral standards and amendments thereto. Major changes are in Clause 208 because many of the former requirements are now addressed by IEC 60601-1-8.

It is published as a double logo standard.

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

FDIS	Report on voting
62D/1547/FDIS	62D/1559/RVD

Full information on the voting for the approval of this document can be found in the report on voting indicated in the above table. In ISO, the standard has been approved by XXX P members out of YYY having cast a vote.

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

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The verbal forms used in this document conform to usage described in Clause 7 of the ISO/IEC Directives, Part 2. For the purposes of this document, the auxiliary verb:

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- "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 80601 International Standard, published under the general title *Medical electrical equipment*, can be found on the IEC website.

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

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INTRODUCTION

This particular standard concerns the BASIC SAFETY and ESSENTIAL PERFORMANCE of MULTIFUNCTION PATIENT MONITORS. It amends and supplements IEC 60601-1:2005 and IEC 60601-1:2005/AMD1:2012, *Medical electrical equipment — Part 1: General requirements for basic safety and essential performance*, hereinafter referred to as the general standard.

The aim of this edition is to bring this particular standard up to date with reference to the edition 3.1 of the general standard and new versions of collateral standards and amendments thereto through technical changes.

The requirements of this particular standard take priority over those of the general standard.

A "Particular guidance and rationale" for the requirements of this particular standard is included in Annex AA. It is considered that knowledge of the reasons for these requirements will not only facilitate the proper application of the standard but will, in due course, expedite any revision necessitated by changes in clinical practice or as a result of developments in technology. However, this Annex AA does not form part of the requirements of this document.

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MEDICAL ELECTRICAL EQUIPMENT -

Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors

201.1 Scope, object and related standards

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

201.1.1 * Scope

Replacement:

This part of the 80601 International Standard applies to BASIC SAFETY and ESSENTIAL PERFORMANCE requirements of MULTIFUNCTION PATIENT MONITORS as defined in 201.3.201, hereafter referred to as ME EQUIPMENT or MEDICAL ELECTRICAL SYSTEMS. This particular standard applies to MULTIFUNCTION PATIENT MONITORS intended for use in professional healthcare facilities as well as in the EMERGENCY MEDICAL SERVICE ENVIRONMENT or the HOME HEALTHCARE ENVIRONMENT.

The scope of this document is restricted to ME EQUIPMENT or MEDICAL ELECTRICAL SYSTEMS intended for connection to a single PATIENT that has two or more PHYSIOLOGICAL MONITORING UNITS.

NOTE For purposes of this document, a pregnant mother and her fetus(es) are considered a single PATIENT.

This document does not specify requirements for individual PHYSIOLOGICAL MONITORING UNITS such as ECG, invasive pressure and pulse oximetry. The particular standards related to these PHYSIOLOGICAL MONITORING UNITS specify requirements from the perspective of stand-alone ME EQUIPMENT. This particular standard addresses the additional requirements related to MULTIFUNCTION PATIENT MONITORS.MULTIFUNCTION PATIENT MONITORS can be integrated into other ME EQUIPMENT or MEDICAL ELECTRICAL SYSTEMS. When this is the case, other relevant standards also apply.

EXAMPLE 1 MULTIFUNCTION PATIENT MONITOR incorporated into a critical care ventilator where ISO 80601-2-12 also applies.

EXAMPLE 2 MULTIFUNCTION PATIENT MONITOR incorporated into a homecare ventilator for dependent PATIENT where ISO 80601-2-72 also applies.

EXAMPLE 3 MULTIFUNCTION PATIENT MONITOR incorporated into anesthetic workstation where ISO 80601-2-13 also applies.

EXAMPLE 4 MULTIFUNCTION PATIENT MONITOR incorporated into haemodialysis equipment, IEC 60601-2-16 also applies.

This document does not apply to implantable parts of MULTIFUNCTION PATIENT MONITORS.

201.1.2 Object

Replacement:

The object of this particular standard is to establish BASIC SAFETY and ESSENTIAL PERFORMANCE requirements for MULTIFUNCTION PATIENT MONITORS as defined in 201.3.201.

The general standard is IEC 60601-1:2005 and IEC 60601-1:2005/AMD1:2012, Medical electrical equipment – Part 1: General requirements for basic safety and essential performance.



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