ELEKTROMAGNETILINE ÜHILDUVUS. OSA 6-2: ERIALASED PÕHISTANDARDID. HÄIRINGUTALUVUS TÖÖSTUSKESKKONDADES

Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments (IEC 61000-6-2:2016)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 61000-6-2:2019 sisaldab Euroopa standardi EN IEC 61000-6-2:2019 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 61000-6-2:2019 consists of the English text of the European standard EN IEC 61000-6-2:2019.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 22.02.2019.	Date of Availability of the European standard is 22.02.2019.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 33.100.20

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN IEC 61000-6-2

February 2019

ICS 33.100.20

Supersedes EN 61000-6-2:2005

English Version

Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments (IEC 61000-6-2:2016)

Compatibilité électromagnétique (CEM) - Partie 6-2: Normes génériques - Norme d'immunité pour les environnements industriels (IEC 61000-6-2:2016) Elektromagnetische Verträglichkeit - Teil 6-2: Fachgrundnormen - Störfestigkeit für Industriebereiche (IEC 61000-6-2:2016)

This European Standard was approved by CENELEC on 2016-09-14. 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.

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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.

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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

European foreword

The text of document 77/521/FDIS, future edition 3 of IEC 61000-6-2, prepared by IEC/TC 77 "Electromagnetic compatibility" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61000-6-2:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2019-08-22 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) 2022-02-22

This document supersedes EN 61000-6-2:2005.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC 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(s) see informative Annex ZZ, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 61000-6-2:2016 was approved by CENELEC as a European Standard without any modification.

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

IEC 61000-4-12	NOTE	Harmonized as EN 61000-4-12
IEC 61000-4-13	NOTE	Harmonized as EN 61000-4-13
IEC 61000-4-16	NOTE	Harmonized as EN 61000-4-16
IEC 61000-4-18	NOTE	Harmonized as EN 61000-4-18
IEC 61000-4-19	NOTE	Harmonized as EN 61000-4-19
IEC 61000-4-29	NOTE	Harmonized as EN 61000-4-29
IEC 61000-4-31	NOTE	Harmonized as EN 61000-4-31
CISPR 11:2009	NOTE	Harmonized as EN 55011:2009 (modified).

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.

Publication	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60050-161	-	International Electrotechnical Vocabular Chapter 161: Electromagnetic compatibili		-
IEC 61000-4-2	2008	Electromagnetic compatibility (EMC) - Pa 4-2: Testing and measurement technique - Electrostatic discharge immunity test		2009
IEC 61000-4-3	2006	Electromagnetic compatibility (EMC) - Pa 4-3: Testing and measurement technique - Radiated, radio-frequence electromagnetic field immunity test	es	2006
+ A1	2007	4	+ A1	2008
+ A2	2010		+ A2	2010
IEC 61000-4-4	2012	Electromagnetic compatibility (EMC) - Pa 4-4: Testing and measurement technique - Electrical fast transient/burst immun test	es	2012
IEC 61000-4-5	2014	Electromagnetic compatibility (EMC) - Pa 4-5: Testing and measurement technique - Surge immunity test		2014
IEC 61000-4-6	2013	Electromagnetic compatibility (EMC) - Pa 4-6: Testing and measurement technique - Immunity to conducted disturbance induced by radio-frequency fields	es	2014
IEC 61000-4-8	2009	Electromagnetic compatibility (EMC) - Pa 4-8: Testing and measurement technique - Power frequency magnetic field immun test	es	2010
IEC 61000-4-11	2004	Electromagnetic compatibility (EMC) - Pa 4-11: Testing and measurement techniques - Voltage dips, sho interruptions and voltage variation immunity tests	ent ort	2004

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	Year
IEC 61000-4-20	2010	techniques - Emission an	(EMC) - PartEN 61000-4-20 neasurement d immunity ctromagnetic	2010
IEC 61000-4-21	2011	Electromagnetic compatibility 4-21: Testing and r techniques - Reverberation of methods	neasurement	2011
IEC 61000-4-22	2010	Electromagnetic compatibility 4-22: Testing and r techniques - Radiated em immunity measurements in fu rooms (FARs)	neasurement issions and	2011
IEC 61000-4-34	2005	J J	neasurement dips, short variations it with input	2007
+ A1	2009	0	+ A1	2009
4				

CONTENTS

INT	REWORD3
	RODUCTION5
1	Scope6
2	Normative references6
3	Terms and definitions7
4	Performance criteria9
5	Conditions during testing9
6	Product documentation
7	Applicability
8	Measurement uncertainty10
9	Immunity test requirements10
	ex A (informative) Guidance for product committees
Bibl	iography18
Figı	ure 1 – Equipment ports8
Tab	le 1 – Immunity requirements – Enclosure ports12
Tab	le 2 – Immunity requirements – Signal/control ports
Tab	le 3 – Immunity requirements – Input and output DC power ports14
Tab	le 4 – Immunity requirements – Input and output AC power ports15
Tab	le A.1 – Immunity tests and test levels to be considered in future or for particular

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROMAGNETIC COMPATIBILITY (EMC) -

Part 6-2: Generic standards – Immunity standard for industrial environments

FOREWORD

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International Standard IEC 61000-6-2 has been prepared by IEC technical committee 77: Electromagnetic compatibility.

This third edition cancels and replaces the second edition published in 2005. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) improvement of the environmental description;
- b) extension of the frequency range for the radio-frequency electromagnetic field test according to IEC 61000-4-3;
- c) amended test levels at particular frequencies for the radio-frequency electromagnetic field test according to IEC 61000-4-3;

- d) change of the repetition frequency for the fast transients immunity test according to IEC 61000-4-4;
- e) introduction of requirements according to IEC 61000-4-34;
- f) revision of the test levels;
- g) consideration of measurement uncertainty;
- h) addition of Annex A.

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

FDIS	Report on voting
77/521/FDIS	77/523/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.

A list of all parts in the IEC 61000 series, published under the general title *Electromagnetic* compatibility (EMC), 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 website under "http://webstore.iec.ch" in the data s, the related to the specific publication. At this date, the publication will be

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

INTRODUCTION

IEC 61000 is published in separate parts according to the following structure:

Part 1: General

General considerations (introduction, fundamental principles)
Definitions, terminology

Part 2: Environment

Description of the environment Classification of the environment Compatibility levels

Part 3: Limits

Emission limits

Immunity limits (insofar as these limits do not fall under the responsibility of the product committees)

Part 4: Testing and measurement techniques

Measurement techniques
Testing techniques

Part 5: Installation and mitigation guidelines

Installation guidelines
Mitigation methods and devices

Part 6: Generic standards

Part 9: Miscellaneous

Each part is further subdivided into several parts, published either as International Standards or as Technical Specifications or Technical Reports, some of which have already been published as sections. Others will be published with the part number followed by a dash and a second number identifying the subdivision (example: IEC 61000-6-1).