

SLOVENSKI STANDARD SIST EN 61010-1:2010/oprA2:2025

01-maj-2025

Varnostne zahteve za električno opremo za meritve, nadzor in laboratorijsko uporabo - 1. del: Splošne zahteve - Dopolnilo 2

Amendment 2 - Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements

Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 1: Allgemeine Anforderungen

Amendement 2 - Règles de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire - Partie 1: Exigences générales

Ta slovenski standard je istoveten z: EN 61010-1:2010/prA2:2025

ICS:

19.080 Električno in elektronsko Electrical and electronic

preskušanje testing

71.040.10 Kemijski laboratoriji. Chemical laboratories.

Laboratorijska oprema Laboratory equipment

SIST EN 61010-1:2010/oprA2:2025 en,fr,de

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66/836/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:	
IEC 61010-1/AMD2 ED3	
DATE OF CIRCULATION: 2025-03-07	CLOSING DATE FOR VOTING: 2025-05-30
SUPERSEDES DOCUMENTS: 66/818/CD, 66/824B/CC	

IEC TC 66: SAFETY OF MEASURING, CONTROL AND LABORA	TORY EQUIPMENT
SECRETARIAT:	SECRETARY:
United Kingdom	Ms Stephanie Lavy
OF INTEREST TO THE FOLLOWING COMMITTEES:	HORIZONTAL FUNCTION(S):
	TC 66 Horizontal Group Safety
ASPECTS CONCERNED:	
Safety	
Submitted for CENELEC parallel voting	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING
Attention IEC-CENELEC parallel voting	ndards
The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft	indards
for Vote (CDV) is submitted for parallel voting.	dards.iteh.ai)
The CENELEC members are invited to vote through the CENELEC online voting system.	
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	4010(11, 40,000)
This document is still under study and subject to change.	It should not be used for reference purposes.
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Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE AC/22/2007 OR NEW GUIDANCE DOC).

TITLE:

PROPOSED STABILITY DATE: 2027
NOTE FROM TC/SC OFFICERS:

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1 FOREWORD

- 2 This second amendment to the third edition builds on the first amendment to the third edition,
- published in 2016. This amendment constitutes a technical revision.
- 4 Full information on the voting for the approval of this International Standard Amendment can
- 5 be found in the report on voting indicated in the above table.
- This document has been drafted in accordance with the ISO/IEC Directives, Part 2.
- 7 A list of all parts of the IEC 61010 series, under the general title Safety requirements for
- 8 electrical equipment for measurement, control, and laboratory use, can be found on the IEC
- 9 website.
- The committee has decided that the contents of this document will remain unchanged until the
- stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to
- the specific document. At this date, the document will be
- 13 reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- 16 amended.

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19 INTRODUCTION

Replace the text of the existing introduction with the following text:

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22 23 24 25	within its scope. For	ies the safety requirements that are generally applicable to all equipment certain types of equipment, these requirements will be supplemented or al requirements of the following parts 2 which must be read in conjunction of this document.
26 27	IEC 61010-2-010	Particular requirements for laboratory equipment for the heating of materials

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28	IEC 61010-2-011	Particular requirements for refrigerating equipment
29 30	IEC 61010-2-012	Particular requirements for climatic and environmental testing and other temperature conditioning equipment
31	IEC 61010-2-020	Particular requirements for laboratory centrifuges
32 33	IEC 61010-2-030	Particular requirements for equipment having testing or measuring circuits
34 35	IEC 61010-2-032	Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement
36 37 38	IEC 61010-2-033	Particular requirements for hand-held multimeters and other meters for domestic and professional use, capable of measuring mains voltage
39 40	IEC 61010-2-034	Particular requirements for measurement equipment for insulation resistance and test equipment for electric strength
41 42	IEC 61010-2-040	Particular requirements for sterilizers and washer-disinfectors used to treat medical materials()/oprA2:2025
43 44	IEC 61010-2-051	Particular requirements for laboratory equipment for mixing and stirring
45 46	IEC 61010-2-061	Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization

49 IEC 61010-2-091

IEC 61010-2-081

IEC 61010-2-101

Particular requirements for in vitro diagnostic (IVD) medical equipment

52 IEC 61010-2-130

Particular requirements for equipment intended to be used in educational establishments by children

Particular requirements for automatic and semi-automatic laboratory

54 IEC 61010-2-201

Particular requirements for control equipment

equipment for analysis and other purposes

Particular requirements for cabinet X-ray systems

55 IEC 61010-2-202

Particular requirements for electrically operated valve actuators

56 Attention is also drawn to the following standard:

57	IEC 61010-031
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Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 031: Safety requirements for handheld and hand-manipulated probe assemblies for electrical test and measurement

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SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE –

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Part 1: General requirements

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1 Scope and object

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1.1 Scope

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- 71 1.1.1 Equipment included in scope
- 72 Replace the first two paragraphs with the following paragraph:
- 73 This document specifies general safety requirements for the following types of electrical equipment and their accessories, wherever they are intended to be used.

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- 76 Delete the last sentence of note 1.
- In the second paragraph of item a), replace the word "standard" with the word "document".

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- 79 Replace the two paragraphs of item c) with the following paragraph:
- This is equipment which measures, indicates, monitors, inspects or analyses materials, or is used to prepare materials. This equipment may also be used in areas other than laboratories.

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- Add the following two paragraphs at the end of this subclause:
- This group safety publication is primarily intended to be used as a product safety standard for the products mentioned in the scope but shall also be used by technical committees in the preparation of their publications for products similar to those mentioned in the scope of this document, in accordance with the principles laid down in IEC Guide 104 and ISO/IEC Guide 51.
- One of the responsibilities of a technical committee is, wherever applicable, to make use of basic safety publications and/or group safety publications in the preparation of its publications.

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1.1.2 Equipment excluded from scope

- 93 Replace the text of this subclause with the following text:
- This document does not apply to equipment within the scope of:
- a) IEC 60335-1 (Household and similar electrical appliances);
- 96 b) IEC 60364-1 (Electrical installations of buildings);
- 97 c) IEC 61439-1 (Low-voltage switchgear and control gear assemblies);
- 98 d) IEC 60601-1 (Medical electrical equipment);
- e) IEC 62368-1 (Audio/video, information and communication technology equipment, except as specified in 14.1;
- 101 f) IEC 61558-1 (Power transformers, power supply units and similar);
- 102 g) IEC 61010-031 (Hand-held probe assemblies);
- 103 h) IEC 61243-3 (Live working Voltage detectors Part 3: Two-pole low-voltage type).

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1.1.3 Computing equipment

Replace in two locations the word "standard" with the word "document". 106

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Delete the note. 108

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Add the following new clause 1.1.4 110

- Detection or sensing equipment used for signalling or alarms This document applies to equipment intended to detect and signal an imminent hazardous level 112
- of physical or electrical quantities only when used in conjunction with a standard providing 113
- additional requirements for performance and reliability (see 1.2.2). Where no such standard 114
- exists, a RISK assessment procedure is specified in Clause 17. 115
- NOTE 1 Detecting an imminent hazard is understood to include measuring, sensing or other methods of detecting 116
- 117 physical or electrical quantities with the intent of identifying a HAZARDOUS SITUATION.
- NOTE 2 Signal is understood to include signalling, safety alarm initiation, notification and release, or other methods 118
- of signalling when an imminent hazard has been detected. Examples include signalling beacons, lights, audible 119
- alarms and sirens or automatic initiation of hazardous level mitigations such as ventilation or shutdown. 120
- 121 NOTE 3 Examples of standards that can be used in conjunction with this document (IEC 60079-29-1, IEC 62990-122 1).

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124 1.2 **Objects**

- Replace the existing title with this following new title: 125
- 1.2 126 **Aspects**

127 128

Aspects included in scope 61010-1:2010/oprA2:2025 1.2.1

- Replace the two first paragraphs with the following two new paragraphs: 4/sist-en-61010-1-2010-opra2-2025 129
- The purpose of the requirements of this document is to ensure that HAZARDS to the OPERATOR, 130
- SERVICE PERSONNEL, and the surrounding area are reduced to a tolerable level. This document 131
- is intended to be used in conjunction with the manufacturer's process of RISK assessment and 132
- 133 RISK reduction but not to replace it.
- Requirements for protection against particular types of HAZARD are given in Clauses 6 to 13, 134
- and 16, as follows: 135

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- Replace item f) of the second paragraph with the following new item f): 137
- f) effects of radiation, sonic and ultrasonic pressure (see Clause 12); 138

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- 140 Add a new item h):
- 141 h) HAZARDS related to the use and REASONABLY FORESEEABLE MISUSE of the equipment (see

142 Clause 16).

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- In the last paragraph, replace Clause 16 with Clause 17 144
- Aspects excluded from scope 145
- 146 In the first paragraph, replace the word "standard" with the word "document".