

**SLOVENSKI STANDARD**  
**SIST EN IEC 61010-2-201:2025****01-februar-2025**

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**Varnostne zahteve za električno opremo za meritve, nadzor in laboratorijsko uporabo - 2-201. del: Posebne zahteve za opremo za krmiljenje (IEC 61010-2-201:2024)**

Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment (IEC 61010-2-201:2024)

Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 2-201: Besondere Anforderungen für Steuer- und Regelgeräte (IEC 61010-2-201:2024)

Exigences de sécurité pour appareils électriques de mesure, de régulation et de laboratoire - Partie 2-201: Exigences particulières pour les équipements de commande (IEC 61010-2-201:2024)

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**ICS:**

19.080	Električno in elektronsko preskušanje	Electrical and electronic testing
71.040.10	Kemijski laboratoriji. Laboratorijska oprema	Chemical laboratories. Laboratory equipment

**SIST EN IEC 61010-2-201:2025**

**en,fr,de**



EUROPEAN STANDARD

EN IEC 61010-2-201

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2024

ICS 17.020; 19.020; 25.040.40

Supersedes EN IEC 61010-2-201:2018

English Version

Safety requirements for electrical equipment for measurement,  
control, and laboratory use - Part 2-201: Particular requirements  
for control equipment  
(IEC 61010-2-201:2024)

Exigences de sécurité pour appareils électriques de  
mesurage, de régulation et de laboratoire - Partie 2-201:  
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commande  
(IEC 61010-2-201:2024)

Sicherheitsbestimmungen für elektrische Mess-, Steuer-,  
Regel- und Laborgeräte - Teil 2-201: Besondere  
Anforderungen für Steuer- und Regelgeräte  
(IEC 61010-2-201:2024)

This European Standard was approved by CENELEC on 2024-11-28. 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

**EN IEC 61010-2-201:2024 (E)****European foreword**

The text of document 65/1049/FDIS, future edition 3 of IEC 61010-2-201, prepared by TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61010-2-201:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2025-11-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-11-30

This document supersedes EN IEC 61010-2-201:2018 and all of its amendments and corrigenda (if any).

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.

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The text of the International Standard IEC 61010-2-201:2024 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 standard indicated:

IEC 61010-1:2010	NOTE	Approved as EN 61010-1:2010 (not modified)
IEC 61010-1:2010/A1:2016	NOTE	Approved as EN 61010-1:2010/A1:2019
IEC 60364-4-41	NOTE	Approved as HD 60364-4-41
IEC 60664-1	NOTE	Approved as EN IEC 60664-1
IEC 60715	NOTE	Approved as EN 60715
IEC 60721-2-3	NOTE	Approved as EN 60721-2-3
IEC 60947-1:2020	NOTE	Approved as EN IEC 60947-1:2021 (not modified)
IEC 61051-2	NOTE	Approved as EN IEC 61051-2
IEC 61131 series	NOTE	Approved as EN IEC 61131 series
IEC 61131-6	NOTE	Approved as EN 61131-6
IEC 61140:2016	NOTE	Approved as EN 61140:2016 (not modified)
IEC 61643 series	NOTE	Approved as EN IEC 61643 series
IEC 61643-21	NOTE	Approved as EN 61643-21

IEC 61643-311	NOTE	Approved as EN 61643-311
IEC 61643-321	NOTE	Approved as EN 61643-321
IEC 61643-331	NOTE	Approved as EN IEC 61643-331
IEC 61800 series	NOTE	Approved as EN 61800 series
IEC 62133 series	NOTE	Approved as EN 62133 series
IEC 62368 series	NOTE	Approved as EN IEC 62368 series

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## 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.cencenelec.eu](http://www.cencenelec.eu).

*Annex ZA of EN 61010-1:2010 and EN 61010-1:2010/A1:2019 is applicable, except as follows.*

*Add the following references:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60384-14	-	Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	EN IEC 60384-14	-
IEC 60695-2-11	-	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end products (GWEPT)	EN IEC 60695-2-11	-
IEC 60695-11-3	-	Fire hazard testing - Part 11-3: Test flames - 500 W flames - Apparatus and confirmational test methods	EN 60695-11-3	-
IEC 60695-11-20	-	Fire hazard testing - Part 11-20: Test flames - 500 W flame test method	EN 60695-11-20	-
IEC 60947-4-1	-	Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters	EN IEC 60947-4-1	-
IEC 60947-4-2	-	Low-voltage switchgear and controlgear - Part 4-2: Contactors and motor-starters - Semiconductor motor controllers, starters and soft-starters	EN IEC 60947-4-2	-
IEC 60947-5-1	2016	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices	EN 60947-5-1	2017

**EN IEC 61010-2-201:2024 (E)**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61010-1	2010	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	EN 61010-1	2010
+ A1 (mod)	2016		+ A1 + AC	2019 2019-04
IEC 61010-2-030	-	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	EN IEC 61010-2-030	-
IEC 61810-1	2015	Electromechanical elementary relays - Part 1: General and safety requirements	EN 61810-1	2015

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<https://standards.iteh.ai/catalog/standards/sist/277a2178-b79c-4011-bc86-e38f1899be84/sist-en-iec-61010-2-201-2025>







IEC 61010-2-201

Edition 3.0 2024-10

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Safety requirements for electrical equipment for measurement, control, and laboratory use –  
Part 2-201: Particular requirements for control equipment**

**Exigences de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire –  
Partie 2-201: Exigences particulières pour les équipements de commande**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
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ICS 17.020, 19.020, 25.040.40

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## CONTENTS

FOREWORD.....	4
INTRODUCTION.....	7
1 Scope and object.....	8
2 Normative references .....	10
3 Terms and definitions .....	10
4 Tests .....	13
5 Marking and documentation.....	14
6 Protection against electric shock .....	17
7 Protection against mechanical HAZARDS.....	31
8 Resistance to mechanical stresses .....	32
9 Protection against the spread of fire .....	34
10 Equipment temperature limits and resistance to heat.....	39
11 Protection against HAZARDS from fluids and solid foreign objects .....	45
12 Protection against radiation, including laser sources, and against sonic and ultrasonic pressure .....	45
13 Protection against liberated gases and substances, explosion and implosion .....	46
14 Components and subassemblies .....	46
15 Protection by interlocks .....	50
16 HAZARDS resulting from application .....	50
17 RISK assessment.....	50
Annexes .....	51
Annex E (informative) Guidelines for reduction of POLLUTION DEGREES .....	52
Annex F (normative) ROUTINE TESTS .....	54
Annex L (informative) Index of defined terms .....	56
Annex AA (informative) General approach to safety for control equipment .....	57
Annex BB (informative) System drawing of isolation boundaries .....	60
Annex CC (informative) Historical techniques for secondary circuits .....	71
Annex DD (normative) Flammability test for magnesium alloy fire ENCLOSURES or flame barriers (see 9.3.2) .....	75
Annex EE (informative) Information and documentation and correlation to their uses.....	76
Annex FF (informative) Measurement of CLEARANCES and CREEPAGE DISTANCES.....	78
Bibliography.....	80
Figure 101 – Typical INTERFACE/PORT of control equipment .....	19
Figure 102 – Examples of insulation between separate circuits and between circuits and ACCESSIBLE conductive parts .....	24
Figure 103 – Mechanical HAZARDS, with regard to PANEL MOUNTED EQUIPMENT .....	31
Figure 104 – Spread of fire HAZARDS, with regard to PANEL MOUNTED EQUIPMENT.....	35
Figure 12 – Baffle .....	37
Figure 13 – Area of the bottom of an ENCLOSURE to be constructed as specified in 9.3.2 c) 1).....	38
Figure 105 – General temperature test environment .....	41
Figure 106 – Vented equipment .....	42

Figure 107 – Non-vented equipment .....	43
Figure 108 – PANEL MOUNTED EQUIPMENT extending through the wall of the end location ENCLOSURE .....	44
Figure AA.1 – Control equipment access and safety concerns .....	57
Figure BB.1 – Typical system ENCLOSURE layout .....	60
Figure BB.2 – Simplified system schematic .....	62
Figure BB.3 – HAZARD situation of the control equipment .....	63
Figure BB.4 – Application of IEC 61010-2-201 to the control equipment safety drawing .....	64
Figure BB.5 – Application of 6.7.1.5 items a) and b) to the control equipment safety drawing .....	64
Figure BB.6 – Application of 6.7.1.5 items a), b), c) and d) to the control equipment safety drawing .....	65
Figure BB.7 – REINFORCED INSULATION .....	66
Figure BB.8 – BASIC INSULATION .....	67
Figure BB.9 – REINFORCED INSULATION, BASIC INSULATION and impedance .....	68
Figure BB.10 – REINFORCED INSULATION from external power supplies .....	69
Figure BB.11 – BASIC INSULATION from external power supplies .....	70
Figure EE.1 – Information and documentation for component products .....	76
Figure EE.2 – Information and documentation accumulation and segregation tree for an example installation .....	77
Figure FF.1 – Path of a component mounted to a PWB (side view) .....	79
Figure FF.2 – Path of a component mounted to a PWB (side view) .....	79
Table 101 – INTERFACES, PORTS AND TERMINALS considered as OPERATOR ACCESSIBLE for OPEN and ENCLOSED EQUIPMENT .....	18
Table 3 – Multiplication factors for clearances of equipment rated for operation at altitudes up to 5 000 m .....	25
Table 4 – CLEARANCE and CREEPAGE DISTANCES for MAINS CIRCUITS of OVERVOLTAGE CATEGORY II up to 300 V .....	27
Table 5 – Test voltages for solid insulation between MAINS and between MAINS and secondary circuits OVERVOLTAGE CATEGORY II up to 300 V .....	28
Table 6 – CLEARANCES and test voltages for secondary circuits derived from MAINS CIRCUITS of OVERVOLTAGE CATEGORY II up to 300 V .....	29
Table 16 – Acceptable perforation of the bottom of an ENCLOSURE .....	36
Table 19 – Surface temperature limits, under NORMAL CONDITION .....	39
Table 102 – Overload and endurance test voltages .....	47
Table 103 – Overload test circuit values .....	49
Table 104 – Endurance test circuit values .....	50
Table E.1 – Environmental situations .....	52
Table E.2 – Reduction of POLLUTION DEGREES (PD) .....	53
Table CC.1 – Limits of output current and output power for inherently limited power sources .....	74
Table CC.2 – Limits of output current, output power and RATINGS for over-current protective devices for non-inherently limited power sources .....	74
Table FF.1 – Dimensions of X .....	78

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT  
FOR MEASUREMENT, CONTROL, AND LABORATORY USE –****Part 2-201: Particular requirements for control equipment**

## 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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IEC 61010-2-201 has been prepared by IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

This third edition cancels and replaces the second edition published in 2017. This edition constitutes a technical revision.

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

- a) 1.1.1: the related equipment included in the Scope has been clarified;
- b) 4.3.2.101: the optical fibre module has been deleted;
- c) 5.4.3: equipment installation has been clarified;

- d) 6.7.1.1: revision of the figure representing insulation between separate circuits has been included;
- e) 6.7.101: the subclause relating to insulation for FIELD WIRING TERMINALS of OVERVOLTAGE CATEGORY II with a nominal voltage up to 1 000 V has been deleted;
- f) 6.7.1.101: a new subclause relating to insulation for SELV/PELV CIRCUITS has been included;
- g) 6.8.3: specification of voltage tester has been added;
- h) 6.9.3: an additional exception relating to colour coding has been included;
- i) 6.9.101: a new subclause relating to wiring for secondary circuits e.g. SELV/PELV has been included;
- j) 8.2.2.101: additional requirements for glass displays have been included;
- k) 8.3: the subclause relating to the drop test has been removed;
- l) 9.3.2: additional requirements for material of connectors and insulating material have been included;
- m) The particular requirements for non-metallic material have been clarified;
- n) Clause 11: the particular requirements for protection against HAZARDS from fluid and solid foreign objects have been removed;
- o) 12.4: an additional subclause relating to microwave radiation has been included;
- p) 14.102: the description of switching devices has been clarified;

The text of this International Standard is based on the following documents:

Draft	Report on voting
65/1049/FDIS	65/1095/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

A list of all parts in the IEC 61010 series, published under the general title *Safety requirements for electrical equipment for measurement, control, and laboratory use*, can be found on the IEC website.

This document is to be used in conjunction with IEC 61010-1:2010, and IEC 61010-1:2010/AMD1:2016.

This document supplements or modifies the corresponding clauses in IEC 61010-1 so as to convert that publication into the IEC standard: *Particular requirements for control equipment*.

Where a particular subclause of IEC 61010-1 is not mentioned in this document, that subclause applies as far as is reasonable. Where this document states "addition", "modification", "replacement", or "deletion", the relevant requirement, test specification or note in IEC 61010-1 should be adapted accordingly.

In this document,

a) the following print types are used:

- requirements and definitions: in roman type;
- NOTES: in smaller roman type;
- *conformity and tests: in italic type*;
- terms used throughout this document which have been defined in Clause 3: SMALL ROMAN CAPITALS.

b) subclauses, figures, tables and notes which are additional to those in IEC 61010-1 are numbered starting from 101. Additional annexes are lettered starting from AA and additional list items are lettered from aa).

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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