

# SLOVENSKI STANDARD

## SIST EN 61010-2-010:2015

01-marec-2015

Nadomešča:

SIST EN 61010-2-010:2004

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**Varnostne zahteve za električno opremo za meritve, nadzor in laboratorijsko uporabo - 2-010. del: Posebne zahteve za laboratorijsko opremo za gretje materialov (IEC 61010-2-010:2014)**

Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials (IEC 61010-2-010:2014)

**ITEH STANDARD PREVIEW**

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Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 2-010: Besondere Anforderungen an Laborgeräte für das Erhitzen von Stoffen (IEC 61010-2-010:2014)

[SIST EN 61010-2-010:2015](https://standards.iteh.ai/catalog/standards/sist/70dd677c-1d1c-4997-bd09-1ffd52830a1e/sist-en-61010-2-010-2015)

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Règles de sécurité pour appareils électriques de mesure, de régulation et de laboratoire - Partie 2-010: Exigences particulières pour appareils de laboratoire utilisés pour l'échauffement des matières (CEI 61010-2-010:2014)

**Ta slovenski standard je istoveten z: EN 61010-2-010:2014**

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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 61010-2-010:2015**

**en**

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EUROPEAN STANDARD

**EN 61010-2-010**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2014

ICS 19.080; 71.040.20

Supersedes EN 61010-2-010:2003

English Version

**Safety requirements for electrical equipment for measurement,  
control and laboratory use - Part 2-010: Particular requirements  
for laboratory equipment for the heating of Materials  
(IEC 61010-2-010:2014)**

Règles de sécurité pour appareils électriques de mesurage,  
de régulation et de laboratoire - Partie 2-010: Exigences  
particulières pour appareils de laboratoire utilisés pour  
l'échauffement des matières  
(CEI 61010-2-010:2014)

Sicherheitsbestimmungen für elektrische Mess-, Steuer-,  
Regel- und Laborgeräte - Teil 2-010: Besondere  
Anforderungen an Laborgeräte für das Erhitzen von Stoffen  
(IEC 61010-2-010:2014)

This European Standard was approved by CENELEC on 2014-10-30. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

The text of document 66/532/FDIS, future edition 3 of IEC 61010-2-010, prepared by IEC/TC 66 "Safety of measuring, control and laboratory equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61010-2-010:2014.

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) 2015-07-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-10-30

This document supersedes EN 61010-2-010:2003.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

## iTeh STANDARD PREVIEW Endorsement notice (standards.iteh.ai)

The text of the International Standard IEC 61010-2-010:2014 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

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

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

NOTE 1 When 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](http://www.cenelec.eu)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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***Annex ZA of EN 61010-1:2010 is applicable except as follows:***

***Addition:***

ISO 7010	2011	Graphical symbols - Safety colours and safety signs - Registered safety signs	EN ISO 7010	2012
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IEC 61010-2-010

Edition 3.0 2014-09

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



GROUP SAFETY PUBLICATION  
PUBLICATION GROUPEE DE SÉCURITÉ

**Safety requirements for electrical equipment for measurement, control and laboratory use –  
Part 2-010: Particular requirements for laboratory equipment for the heating of materials**

[SIST EN 61010-2-010:2015](https://standards.iteh.ai/catalog/standards/sist/70dd677c-1d1c-4997-bd09-1159a15e3105/sist-en-61010-2-010-2015)

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**Règles de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire –  
Partie 2-010: Exigences particulières pour appareils de laboratoire utilisés pour l'échauffement des matières**

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ELECTROTECHNICAL  
COMMISSION

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ELECTROTECHNIQUE  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT  
FOR MEASUREMENT, CONTROL AND LABORATORY USE –****Part 2-010: Particular requirements for laboratory equipment  
for the heating of materials**

## 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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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61010-2-010 has been prepared by IEC technical committee 66: Safety of measuring, control and laboratory equipment.

It has the status of a group safety publication in accordance with IEC Guide 104.

This third edition cancels and replaces the second edition published in 2003. It constitutes a technical revision and includes the following significant changes from the second edition, as well as numerous other changes:

- added a definition for HEAT TRANSFER MEDIUM to Clause 3;
- added a symbol for FLAMMABLE LIQUID to Table 1 in Clause 5;
- added a requirement for instructions pertaining to ventilation in Clause 5;
- modified the requirements for humidity preconditioning in Clause 6;

- added requirements for equipment containing or using flammable liquids to Clause 9;
- added requirements for over-temperature protection devices to Clause 10.

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

FDIS	Report on voting
66/532/FDIS	66/543/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 of the IEC 61010 series, under the general title: *Safety requirements for electrical equipment for measurement, control, and laboratory use*, may be found on the IEC website.

This Part 2-010 is intended to be used in conjunction with IEC 61010-1. It was established on the basis of the third edition (2010).

This Part 2-010 supplements or modifies the corresponding clauses in IEC 61010-1 so as to convert that publication into the IEC standard *Safety requirements for laboratory equipment for the heating of materials*.

Where a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as is reasonable. Where this part states “addition”, “modification”, “replacement”, or “deletion” the relevant requirement, test specification or note in Part 1 should be adapted accordingly.

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In this standard:

- 1) the following print types are used:
  - requirements: in roman type;
  - NOTES: in small roman type;
  - *conformity and test: in italic type;*
  - terms used throughout this standard which have been defined in Clause 3: SMALL ROMAN CAPITALS;
- 2) subclauses, figures, tables and notes which are additional to those in Part 1 are numbered starting from 101. Additional annexes are lettered starting from AA.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

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