



# SLOVENSKI STANDARD

## SIST EN IEC 61010-2-202:2021

01-april-2021

Nadomešča:

SIST EN 61010-2-202:2017

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**Varnostne zahteve za električno opremo za meritve, nadzor in laboratorijsko uporabo - 2-202. del: Posebne zahteve za električni pogon ventilov (IEC 61010-2-202:2020)**

Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-202: Particular requirements for electrically operated valve actuators (IEC 61010-2-202:2020)

**iTeh STANDARD PREVIEW**

Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 2-202: Besondere Anforderungen für elektrisch betriebene Ventile und Stellantriebe (IEC 61010-2-202:2020)

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SIST EN IEC 61010-2-202:2021

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Règles de sécurité pour appareils électriques de mesure, de régulation et de laboratoire - Partie 2-202: Exigences particulières pour les actionneurs à vanne à commande électrique (IEC 61010-2-202:2020)

**Ta slovenski standard je istoveten z: EN IEC 61010-2-202:2021**

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**ICS:**

19.080	Električno in elektronsko preskušanje	Electrical and electronic testing
23.060.01	Ventili na splošno	Valves in general
71.040.10	Kemijski laboratoriji. Laboratorijska oprema	Chemical laboratories. Laboratory equipment

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**en,fr,de**

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EUROPEAN STANDARD

EN IEC 61010-2-202

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2021

ICS 13.110; 17.020; 19.020

Supersedes EN 61010-2-202:2017 and all of its  
amendments and corrigenda (if any)

English Version

Safety requirements for electrical equipment for measurement,  
control and laboratory use - Part 2-202: Particular requirements  
for electrically operated valve actuators  
(IEC 61010-2-202:2020)

Règles de sécurité pour appareils électriques de mesurage,  
de régulation et de laboratoire - Partie 2-202: Exigences  
particulières pour les actionneurs à vanne à commande  
électrique  
(IEC 61010-2-202:2020)

Sicherheitsbestimmungen für elektrische Mess-, Steuer-,  
Regel- und Laborgeräte - Teil 2-202: Besondere  
Anforderungen für elektrisch betriebene Ventile und  
Stellantriebe  
(IEC 61010-2-202:2020)

This European Standard was approved by CENELEC on 2020-12-10. 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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, 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: Rue de la Science 23, B-1040 Brussels

**EN IEC 61010-2-202:2021 (E)****European foreword**

The text of document 65/835/FDIS, future edition 2 of IEC 61010-2-202, prepared by IEC/TC 65 “Industrial-process measurement, control and automation” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61010-2-202:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2021–09–10 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2023–12–10 document have to be withdrawn

This document supersedes EN 61010-2-202:2017 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.

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.

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**Endorsement notice**

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The text of the International Standard IEC 61010-2-202:2020 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 60730 (series)	NOTE	Harmonized as EN IEC 60730 (series)
IEC 60730-2-8:2018	NOTE	Harmonized as EN IEC 60730-2-8:2020 (not modified)
IEC 60730-2-14:2017	NOTE	Harmonized as EN IEC 60730-2-14:2019 (not 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](http://www.cenelec.eu).

*The Annex ZA of EN 61010-1:2010/A1:2019 applies.*

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## Annex ZZ (informative)

### Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

**Table ZZ.1 — Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]**

Safety objectives of Directive 2014/35/EU (Annex I)	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
<b>1. General conditions</b>		
1 (a) the essential characteristics, the recognition and observance of which will ensure that electrical equipment will be used safely and in applications for which it was made, shall be marked on the electrical equipment, or, if this is not possible, on an accompanying document	5.1 5.2 5.3 5.4	
1 (b) the electrical equipment, together with its component parts, shall be made in such a way as to ensure that it can be safely and properly assembled and connected	5.4 6.6 6.10 6.11 Annex F	
1 (c) the electrical equipment shall be so designed and manufactured as to ensure that protection against the hazards set out in points 2 and 3 is ensured, providing that the equipment is used in applications for which it was made and is adequately maintained	5.4 Annex F 17 (for hazards not covered by Clauses 6–16) See also the details in points 2 and 3	

Safety objectives of Directive 2014/35/EU (Annex I)	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
<b>2. Protection against hazards arising from the electrical equipment</b>		
Measures of a technical nature shall be laid down in accordance with point 1, in order to ensure that:		
2 (a) persons and domestic animals are adequately protected against the danger of physical injury or other harm which might be caused by direct or indirect contact	4, 6.1 – 6.11, 9.6, 11.6, 14.4 Annex D, Annex F, Annex K	
2 (b) temperatures, arcs or radiation which would cause a danger, are not produced	4, 6.3.1.b) 2), 6.3.2 b) 2), 9.5, 9.6, 10.1 –10.5, 12	
2 (c) persons, domestic animals and property are adequately protected against non-electrical dangers caused by the electrical equipment which are revealed by experience	4, 7.2–7.7, 9, 12.3, 12.5, 12.6, 13.1, 13.2, 16.2	
2 (d) the insulation is suitable for foreseeable conditions	4, 6.7, Annex K	
<b>3. Protection against hazards which may be caused by external influences on the electrical equipment</b>		
Technical measures shall be laid down in accordance with point 1, in order to ensure that the electrical equipment:		
3 (a) meets the expected mechanical requirements in such a way that persons, domestic animals and property are not endangered	4, 7, 8	
3 (b) is resistant to non-mechanical influences in expected environmental conditions, in such a way that persons, domestic animals and property are not endangered	1.4, 4, 6.7.2.2.1, 10.5, 11.6, 14.3, 14.8, 15	
3 (c) does not endanger persons, domestic animals and property in foreseeable conditions of overload	4, 9, 14, 16.1	

**WARNING 1** — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2** — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

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IEC 61010-2-202

Edition 2.0 2020-11

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Safety requirements for electrical equipment for measurement, control  
and laboratory use –  
Part 2-202: Particular requirements for electrically operated valve actuators**

**Exigences de sécurité pour appareils électriques de mesurage, de regulation  
et de laboratoire –  
Partie 2-202: Exigences particulières pour les actionneurs à vanne à commande  
électrique**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 13.110; 17.020; 19.020

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT  
FOR MEASUREMENT, CONTROL AND LABORATORY USE –****Part 2-202: Particular requirements  
for electrically operated valve actuators**

## 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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International Standard IEC 61020-2-202 has been prepared by committee TC 65: Industrial-process measurement, control and automation.

This second edition cancels and replaces the first edition published in 2016. This edition constitutes a technical revision.

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

- a) the scope has been clarified in relationship with other IEC standards,
- b) additional requirement for identification has been included,
- c) additional requirement for user documentations has been included,
- d) accuracy of high voltage di-electric tester has been specified,