

SLOVENSKI STANDARD oSIST prEN 61010-2-061:2018/oprAA:2021

01-januar-2021

Varnostne zahteve za električno opremo za meritve, nadzor in laboratorijsko uporabo - 2-061. del: Posebne zahteve za laboratorijske atomske spektrometre s termično atomizacijo in ionizacijo

Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization

Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 2 -061: Besondere Anforderungen an Labor Atomspektrometer mit thermischer Atomisierung und Ionisation

oSIST prEN 61010-2-061:2018/oprAA:2021

Exigences de sécurité pour appareils électriques de mesurage, de regulation et de laboratoire - Partie 2-061. Exigences particulières pour spectromètres atomiques de laboratoire avec vaporisation et ionisation thermiques

Ta slovenski standard je istoveten z: prEN 61010-2-061:2017/prAA

ICS:

19.080 Električno in elektronsko preskušanje 71.040.20 Laboratorijska posoda in aparati

oSIST prEN 61010-2-061:2018/oprAA:2021

Electrical and electronic testing Laboratory ware and related apparatus

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<u>oSIST prEN 61010-2-061:2018/oprAA:2021</u> https://standards.iteh.ai/catalog/standards/sist/31ee68f7-961d-4a57-85af-8ff24bdc1c41/osist-pren-61010-2-061-2018-opraa-2021

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

DRAFT prEN 61010-2-061:2017

prAA

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ICS 19.080; 71.040.20

English Version

Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization

Exigences de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire - Partie 2-061: Exigences particulières pour spectromètres atomiques de laboratoire avec vaporisation et ionisation thermiques Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 2-061: Besondere Anforderungen an Labor-Atomspektrometer mit thermischer Atomisierung und Ionisation

This draft amendment prAA, if approved, will modify the European Standard prEN 61010-2-061:2017; it is submitted to CENELEC members for enquiry. Deadline for CENELEC: 2021-02-19. STANDARD PREVIEW

It has been drawn up by CLC/TC 66X. (standards.iteh.ai)

If this draft becomes an amendment, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of anational standard without any alteration.

This draft amendment was established by CENELEC 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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1 European foreword

2 This document (prEN 61010-2-061:2017/prAA:2020) has been prepared by CLC/TC 66X "Safety of 3 measuring, control, and laboratory equipment".

- 4 This document is currently submitted to the Enquiry.
- 5 The following dates are proposed:
 - latest date by which the existence of this (doa) dor + 6 months document has to be announced at national level
 - latest date by which this document has to be (dop) dor + 12 months implemented at national level by publication of an identical national standard or by endorsement
 - latest date by which the national standards (dow) dor + 36 months conflicting with this document have to be (to be confirmed or withdrawn modified when voting)
- 6 This document amends prEN 61010 2 061:2017.
- 7 This document has been prepared under a mandate given to CENELEC by the European Commission
- 8 and the European Free Trade Association, and supports essential requirements of EU Directive(s).
- 9 For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

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Modification to 4.4.2.101, "Sampling probe tip" 11 1

- 12 Replace the entire subclause by the following:
- 13 "Any system designed to withdraw a sampling probe tip after sampling has been completed shall be
- 14 overridden, so as to leave the tip in its most exposed position when a sample vessel is removed.
- 15 Exception:
- 16 The withdrawal system need not be overridden if the sampling probe is designed in such a manner
- 17 that no SINGLE FAULT CONDITION can cause the tip to remain exposed after sampling has been
- 18 completed."

30

Modification to 5.1.5.101, "Gas and liquid connections" 19 2

- 20 Replace the entire subclause by the following:
- 21 "The following shall be unambiguously marked adjacent to the connector on the equipment (see 5.2):
- 22 a) the identity of the gas or liquid;
- 23 the maximum permitted pressure, b)
- 24 c) flow direction of the gas and liquid, if applicable.
- 25 Such markings can be specific (for example acetylene, propane, water) or generic (for example fuel NOTE 26 gas, oxidant gas, coolant, waste liquid).
- Where no internationally recognized symbol (such as a chemical formula) exists, the equipment shall
- 27 be marked with symbol 14 of Table standards.iteh.ai) 28
- 29 Conformity is checked by inspection."
 - oSIST prEN 61010-2-061:2018/oprAA:2021
 - Modification to 5:4.3 at Equipment installation % f7-961d-4a57-85 af-3

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- 31 Replace list item bb) with the following:
- "bb) requirements for a fume extraction system to remove exhaust gases which could be hazardous 32 (see 13.1)"; 33

Modification to 8.1, "General" 34 4

- Replace the text of item 3) with the following text: 35
- 36 "3) except for FIXED EQUIPMENT and equipment with a mass over 100 kg, the test of 8.3.1 or 8.3.2, as 37 applicable. The equipment is not operated during the tests."

Modification to 10.1, "Surface temperature limits for protection against 38 5 burns" 39

- 40 Replace the added new paragraph by the following text:
- 41 "Protection shall be provided to prevent unintentional direct access to hot gases or plasma emerging
- 42 from the equipment by the OPERATOR or other persons in the vicinity. The protection shall comprise
- 43 a protective structure, for example a chimney. The protective structure in contact with hot gases or
- plasma shall be marked by symbol 13 of Table 1." 44

Modification to the Table of Contents and Annex A heading 45 6

46 Rename the Annex A as Annex F in the Table of Contents and in the Annex heading.

Addition of Annex ZA, "Normative references to international publications 7 47 with their corresponding European publications" 48

- 49 Add the following Annex ZA:
- 50

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.

Annex ZA of EN 61010-1:2010/A1:2019 is applicable.

Addition of Annex ZZ, "Relationship between this European standard and 8 52 the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be 53 covered" 54

https://standards.iteh.ai/catalog/standards/sist/31ee68f7-961d-4a57-85af-8ff24bdc1c41/osist-pren-61010-2-061-2018-opraa-2021

- 55 Add the following Annex ZZ:
- 56

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Annex ZZ (informative)

59 Relationship between this European standard and the safety 60 objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be 61 covered 62

63	This European Standard has been prepared under a Commission's standardization request relating to
64	harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means
65	of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the
66	Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the
67	making available on the market of electrical equipment designed for use within certain voltage limits
68	[2014 OJ L96].

69 Once this standard is cited in the Official Journal of the European Union under that Directive. 70 compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of 71 the scope of this standard, a presumption of conformity with the corresponding safety objectives of 72 that Directive, and associated EFTA regulations.

73 74

Table ZZ.1 — Correspondence between this European standard and Annex I of Directive2014/35/EU [2014 OJ L96]

Safety objectives of Directive 2014/35/EU (Annex I)	Clause(s) / sub- clause(s) of this EN	Remarks / Notes	
1. General conditions			
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	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 assured, providing that the equipment is used in applications for which it was made and is adequately maintained	5.4 17 (for hazards not covered by Clauses 6–16) See also the details in points 2 and 3	EVIEW 11)	
2. Protection against hazards arising from the electrical equipment 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 stated adequately protected against the danger of physical injury or other harm which might be caused by direct or indirect contact	pren-41,6.1-2-6.11,018 9.6, 11.6, Annex F, Annex K	-opraa-2021	
2 (b) temperatures, arcs or radiation which would cause a danger, are not produced	4.4.4.2, 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	4.4, 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	6.7, Annex K		
3. Protection against hazards which may be caused by external influences on the electrical equipment 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	7, 8		