

STN	Bezpečnostné požiadavky na elektrické zariadenia na meranie, riadenie a laboratórne použitie Časť 1: Všeobecné požiadavky Zmena A1	STN EN 61010-1/A1 36 2000
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Safety requirements for electrical equipment for measurement, control, and laboratory use.Part 1:General requirements

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/19

STN EN 61010-1 z júla 2011 sa bez tejto zmeny A1 môže používať do 22. 2. 2022.

Obsahuje: EN 61010-1:2010/A1:2019, IEC 61010-1:2010/AMD1:2016

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61010-1:2010/A1

February 2019

ICS 19.080; 71.040.10

English Version

**Safety requirements for electrical equipment for measurement,
control, and laboratory use - Part 1: General requirements
(IEC 61010-1:2010/A1:2016 , modified)**

Règles de sécurité pour appareils électriques de mesurage,
de régulation et de laboratoire - Partie 1: Exigences
générales
(IEC 61010-1:2010/A1:2016 , modifiée)

Sicherheitsbestimmungen für elektrische Mess-, Steuer-,
Regel- und Laborgeräte - Teil 1: Allgemeine Anforderungen
(IEC 61010-1:2010/A1:2016 , modifiziert)

This amendment A1 modifies the European Standard EN 61010-1:2010; it was approved by CENELEC on 2018-08-06. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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

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European foreword

This document (EN 61010-1:2010/A1:2019) consists of the text of IEC 61010-1:2010/AMD1:2016 prepared by IEC/TC 66 "Safety of measuring, control and laboratory equipment", together with the common modifications prepared by CLC/SR 66 "Safety of measuring, control, and laboratory equipment".

The following dates are fixed:

- latest date by which this document has to be (dop) 2019-08-22 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2022-02-22 conflicting with this document have to be withdrawn

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 amendment 1 to the third edition modifies the third edition published in 2010. It constitutes a technical revision.

This edition as amended includes the following significant changes from the third edition, as well as numerous other changes:

- The scope of the standard is modified to include the standard paragraph that Group Safety Publications are required to have. It does not affect the range of equipment in the scope.
- Symbols are the preferred marking method over warnings.
- Limit voltage values for accessible parts have been brought back to the values of the second edition in subclause 6.3 and Figure 2.
- d.c. is allowed as an alternative for dielectric testing of solid insulation and thin film insulation in mains circuits of overvoltage category II up to 300 V.
- Clearances and creepage distances in mains circuits of overvoltage category III and IV are subjected to dielectric testing in case of doubt.
- The 500 VA power requirement of the a.c. dielectric strength test equipment is replaced by a requirement to maintain the test voltage throughout the test.
- Temperature measurements (10.4.1) are made at the least favourable ambient temperature within the RATED ambient temperature range of the equipment if this represents a less favourable condition.
- Subclause 11.6 is renamed to "Equipment RATED with a degree of ingress protection (IP code)". It is completely revised and includes now complete requirements.
- The test pressures for hydraulic tests in 11.7.2 are revised.
- The requirements for protection against optical radiation are revised. The coverage is increased.
- The requirements for circuits used to limit TRANSIENT OVERVOLTAGES (14.8) are revised.
- In Annex H the test number 1 "Scratch resistance" is removed.

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.

Endorsement notice

The text of the International Standard IEC 61010-1:2010/AMD1:2016 was approved by CENELEC as a European Standard with common modifications.

COMMON MODIFICATIONS

koniec náhľadu – text ďalej pokračuje v platenej verzii STN