



SLOVENSKI STANDARD
SIST IEC 61010-3-032:2002

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Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 3-032: Conformity verification report for IEC 61010-2-032:1994 - Particular requirements for hand-held current clamps for electrical measurement and test

Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 3-032: Conformity verification report for IEC 61010-2-032:1994, Particular requirements for hand-held current clamps for electrical measurement and test

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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

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en

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TECHNICAL REPORT

IEC TR 61010-3-032

First edition
2000-01

Safety requirements for electrical equipment for measurement, control, and laboratory use –

Part 3-032:

Conformity verification report for IEC 61010-2-032:1994, Particular requirements for hand-held current clamps for electrical measurement and test

*Règles de sécurité pour appareils électriques de mesure,
de régulation et de laboratoire –*

Partie 3-032:

Rapports de vérification de la conformité de la CEI 61010-2-032

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Commission Electrotechnique Internationale
International Electrotechnical Commission
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT
FOR MEASUREMENT, CONTROL, AND LABORATORY USE –**

**Part 3-032: Conformity verification report for IEC 61010-2-032:1994,
Particular requirements for hand-held current clamps
for electrical measurement and test**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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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The main task of IEC technical committees is to prepare International Standards. However, a technical committee may propose the publication of a technical report when it has collected data of a different kind from that which is normally published as an International Standard, for example "state of the art".

Technical reports do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful by the maintenance team.

IEC 61010-3-032, which is a technical report, has been prepared by IEC technical committee 66: Safety of measuring, control, and laboratory equipment.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
66/192/CDV	66/216/RVC

Full information on the voting for the approval of this technical report 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 3.

This report is a Technical Report and is of a purely informative nature and is therefore by itself not to be regarded as an International Standard. It is for use by testhouses and other users to assist them with determining and recording verification of conformity of the equipment under test with the requirements of

IEC 61010-2-032:1997,

and

IEC 61010-1:1990 + amendment 1:1992

or

IEC 61010-1:1990 + amendment 1:1992 + amendment 2:1995

The protocol for completion of this report is contained in publication IEC 61010-3:1997. Requirements which apply only to amendment 2 to IEC 61010-1 are indicated by “(AM 2)” in the first column. Requirements deleted by amendment 2 to IEC 61010-1 are indicated by “(AM 1 only)” in the second column.

Reference to IEC 61010-1 clauses and subclauses which have no applicability for IEC 61010-2-032 have been identified in the comments column of the report as ‘Not applicable’. The Forms A.9, A.21, A.22, A.23, A.25, A.26, A.27 and A.28, which are normally associated with these clauses/subclauses, are also excluded from this report.

The IEC sells read-only PDF files as a general rule. In the present instance, and quite exceptionally, to enable the user to fill in the forms, a revisable file is included in a pocket affixed to the back cover of this publication.

This publication can be downloaded from the Web as a PDF file. There is, however, at the end of the document, a revisable file containing the forms. Please use the zip/unzip function.

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Conformity Verification Report IEC 61010-2-032: Safety requirements for electrical equipment for measurement, control, and laboratory use Particular requirements for hand-held current clamps for electrical measurement and test	
Report reference No	:
Compiled by (+ signature).....	:
Approved by (+ signature).....	:
Date of issue	:
Testing organization.....	:
Address.....	:
Testing location.....	:
Applicant	:
Address.....	:
Standard	IEC 61010-2-032:1994 and IEC 61010-3-032:2002 IEC 61010-1:1990 + Amendment 1:1992 or IEC 61010-1:1990 + Amendment 1:1992 + Amendment 2:1995
Copyright blank test report.....	This report has been prepared by IEC/TC 66, which retains responsibility for any changes or corrections required.
Test procedure.....	:
Procedure deviation	:
Non-standard test method	:
Type of item tested	<input type="checkbox"/> Measurement
Trademark.....	:
Model/type référence	:
Manufacturer.....	:
Rating.....	:
Copy of rating plate:	

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Description of equipment function:

INSTALLATION/OVERVOLTAGE CATEGORY:

POLLUTION DEGREE:

Environmental rating: Standard Other (specify):

Equipment mobility: Hand-held

Operating conditions: Continuous Short-time Intermittent

Overall size of the equipment (Length × Width × Height) cm:

Mass of the equipment (kg):

Marked degree of protection to IEC 60529: IP__ __

Accessories and detachable parts included in the evaluation:

Options:

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NOTE "(see Form A.X)" refers to a form appended to the report.

Table 3 – List of components relied on for safety

Unique component reference or location (including drawing reference if required)	Application/Function	Manufacturer and part number (note 1)	RATING (note 2)	Licence number, file number or other documentary evidence of acceptance
NOTE 1 List all manufacturers concerned.				
NOTE 2 Electrical, mechanical, flammability, etc.				

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Clause Subclause	Requirement	Result	Comments
5	Marking and documentation		
5.1.1	General Required equipment markings are		
	a) visible		
	– from the exterior		
	or		
	– after removing a cover		
	b) not put on parts which can be removed by an OPERATOR		
	c) Letter symbols (IEC 60027) used		
	d) Graphic symbols (IEC 61010-1, Table 1) used		
5.1.101	RATING		
	– RATED circuit-to-earth voltage		
	– Nature of voltage		
	– Installation category		
	– Value and nature of maximum current		
5.1.2	Identification		
	Equipment is identified by SIST IEC 61010-3-032:2002		
	– name or trademark of manufacturer or supplier		
	– model number, name or other means		
	– clamp designated for use with specific equipment		
	– model indicated on clamp		
	or		
	– symbol 14 used and information in documentation		
5.1.4	Fuses		
	OPERATOR replaceable fuse marking (see also 5.4.5)		
5.1.5	Measuring circuit TERMINALS		
(AM 2)	RATED maximum working voltage or current marked		

Clause Subclause	Requirement	Result	Comments
	Unless clear indication that below limits:		
	– maximum RATED voltage to earth is marked		
	or		
	– for specific connection only, and means for identifying provided		
	– is adjacent to TERMINALS		
	or		
	– if insufficient space:		
	– on the RATING plate or scale plate		
	or		
	– if the TERMINAL is marked with symbol 14		
(AM 2)	INSTALLATION CATEGORY marked		
(AM 2)	TERMINALS permanently connected and not ACCESSIBLE		
5.1.6	TERMINALS and operating devices		
	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators		
	TERMINAL marking:		
	a) FUNCTIONAL EARTH TERMINALS		
	b) PROTECTIVE CONDUCTOR TERMINALS:		
	– symbol 6 is placed close to or on the TERMINAL		
	or		
	– part of appliance inlet		
	c) TERMINALS of measuring and control circuits		
	d) TERMINALS supplied from the interior		
	e) ACCESSIBLE FUNCTIONAL EARTH TERMINALS		
	f) position on or off of power supply switch (AM 1 only)		
5.1.7	Equipment protected by DOUBLE INSULATION or REINFORCED INSULATION		
	Protected throughout (symbol 11 used)		
	Only partially protected (symbol 11 not used)		
5.1.8	Battery charging		Not applicable