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**BS EN 61010-031:2015**



**BSI Standards Publication**

# **Safety requirements for electrical equipment for measurement, control and laboratory use**

Part 031: Safety requirements for  
hand-held probe assemblies for  
electrical measurement and test

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This British Standard is the UK implementation of EN 61010-031:2015. It is identical to IEC 61010-031:2015. It supersedes BS EN 61010-031:2002+A1:2008, which will be withdrawn on 3 July 2018.

The UK participation in its preparation was entrusted to Technical Committee EPL/66, Safety of measuring, control and laboratory equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Compliance with a British Standard cannot confer immunity from legal obligations.**

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#### **Amendments/corrigenda issued since publication**

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|-------------|----------------------|
|-------------|----------------------|

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## EUROPÄISCHE NORM

July 2015

ICS 19.080

Supersedes EN 61010-031:2002

English Version

Safety requirements for electrical equipment for measurement,  
control and laboratory use - Part 031: Safety requirements for  
hand-held probe assemblies for electrical measurement and test  
(IEC 61010-031:2015)

Règles de sécurité pour appareils électriques de mesure,  
de régulation et de laboratoire - Partie 031: Exigences de  
sécurité pour sondes équipées tenues à la main pour  
mesurage et essais électriques  
(IEC 61010-031:2015)

Sicherheitsbestimmungen für elektrische Mess-, Steuer-,  
Regel- und Laborgeräte - Teil 031:  
Sicherheitsbestimmungen für handgehaltenes  
Messzubehör zum Messen und Prüfen  
(IEC 61010-031:2015)

This European Standard was approved by CENELEC on 2015-07-03. 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**

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The text of document 66/569/FDIS, future edition 2 of IEC 61010-031, 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 61010-031:2015.

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) 2016-04-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-07-03

This document supersedes EN 61010-031:2002.

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).

#### **Endorsement notice**

The text of the International Standard IEC 61010-031:2015 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 60065                  | NOTE | Harmonized as EN 60065.                |
| IEC 60270                  | NOTE | Harmonized as EN 60270.                |
| IEC 60364-4-44             | NOTE | Harmonized as HD 60634-4-44.           |
| IEC 60664-1                | NOTE | Harmonized as EN 60664-1.              |
| IEC 60664-3:2003           | NOTE | Harmonized as EN 60664-3:2003.         |
| IEC 60664-3:2003/AMD1:2010 | NOTE | Harmonized as EN 60664-3:2003/A1:2010. |
| IEC 60664-4:2005           | NOTE | Harmonized as EN 60664-4:2006.         |
| IEC 60990                  | NOTE | Harmonized as EN 60990.                |
| IEC 61010 (series)         | NOTE | Harmonized as EN 61010 (series).       |
| IEC 61032:1997             | NOTE | Harmonized as EN 61032:1998.           |

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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><br>series | <u>Title</u>   | <u>EN/HD</u> | <u>Year</u><br>series |
|--------------------|-----------------------|--|--------------|-----------------------|
| IEC 60027          |                       | Letter symbols to be used in electrical technology   | EN 60027     |                       |
| IEC 60529          | -                     | Degrees of protection provided by enclosures (IP Code)   | -            | -                     |
| IEC 61010-1        | 2010                  | Safety requirements for electrical equipment for measurement, control and laboratory use -- Part 1: General requirements | EN 61010-1   | 2010                  |
| IEC 61180-1        | 1992                  | High-voltage test techniques for low-voltage equipment -- Part 1: Definitions, test and procedure requirements           | EN 61180-1   | 1994                  |
| IEC 61180-2        | -                     | High-voltage test techniques for low-voltage equipment -- Part 2: Test equipment   | EN 61180-2   | -                     |
| IEC Guide 104      | -                     | The preparation of safety publications and the use of basic safety publications and group safety publications            | -            | -                     |
| ISO/IEC Guide 51   | -                     | Safety aspects - Guidelines for their inclusion in standards   | -            | -                     |

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