

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1 AMENDEMENT 1

**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**

**Règles de sécurité pour appareils électriques de mesure, de régulation et de laboratoire –
Partie 031: Prescriptions de sécurité pour sondes équipées tenues à la main pour mesurage et essais électriques**



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IEC 61010-031

Edition 1.0 2008-02

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

N

ICS 19.080

ISBN 2-8318-9600-2

FOREWORD

This amendment has been prepared by IEC technical committee 66: Safety of measuring, control and laboratory equipment.

The text of this amendment is based on the following documents:

CDV	Report on voting
66/383/CDV	66/394/RVC

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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CONTENTS

Replace the titles of 6.6 and 6.7, as follows:

- 6.6 Voltage tests
- 6.7 Constructional requirements

Add, on page 5, the titles of new Clause 13 and Subclauses 13.1 and 13.2, new Figures 10, 11, and 12, and of new Table 9:

- 13 Prevention of HAZARD from arc flash and short-circuits
 - 13.1 General
 - 13.2 Exposed conductive parts

Figure 10 – Examples of type D PROBE ASSEMBLIES

Figure 11 – Treatment of the insulation of probe cable

Figure 12 – Pulley for the treatment of Figure 11

Table 9 – Forces for flexing/pull test for single core probe cable

Page 11

1.1 Scope

Add a new item d):

- d) Low-voltage attenuating and non-attenuating PROBE ASSEMBLIES (type D), that are RATED for direct connection only to voltages not exceeding 33 V r.m.s., or 46,7 V peak, or 70 V d.c., and are suitable for currents exceeding 8 A.

Amend the text of the first dashed item of the note as follows:

- are not within the definitions of types A, B, C, or D, or,

1.2 Object

1.2.1 Aspects included in scope

Add a new item e):

- e) arc flash (see Clause 13).

Page 15

3 Definitions

3.1.4

PROBE ASSEMBLY

Replace the existing note with the following:

NOTE See Figures 1, 2, and 10 for examples of PROBE ASSEMBLIES and an explanation of the function of their parts.

Page 21

3.5.6

POLLUTION degree

Replace the title and text with the following:

POLLUTION DEGREE

a numeral indicating the level of POLLUTION that may be present in the environment

3.5.6.1
POLLUTION degree 1

Replace the title with the following:

POLLUTION DEGREE 1

3.5.6.2
POLLUTION degree 2

Replace the title with the following:

POLLUTION DEGREE 2

3.5.6.3
POLLUTION degree 3

Replace the title with the following:

POLLUTION DEGREE 3

Page 25

Add the following new Figure 10 after Figure 2: