IEC 62080

Edition 1.0 2008-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Sound signalling devices for household and similar purposes

iTeh STANDARD PREVIEW
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Dispositifs de signalisation sonore pour usage domestique et analogue

IEC 62080:2001/AMD1:2008
https://standards.iteh.ai/catalog/standards/sist/d86fac23-106c-435a-b34b-2b1f06597d8f/iec-62080-2001-amd1-2008

IEC 62080:2001/A1:2008

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FOREWORD

This amendment has been prepared by IEC technical committee 23: Electrical accessories.

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

FDIS	Report on voting
23/450/FDIS	23/457/RVD

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- withdrawn,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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Page 11

1 Scope

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Replace the first paragraph by the following new text:

This International Standard applies to **sound signalling devices** with integral enclosures or to **sound signalling devices** intended to be fitted into or supplied with enclosures according to IEC 60670 intended for household and similar purposes with **rated voltages** not exceeding 250 V a.c. or 250 V d.c. and with rated power inputs not exceeding 100 VA. In these **sound signalling devices** an indicating light having a rated input power not exceeding 10 VA may also be incorporated.

Page 15

3 Definitions

Replace, on page 23, the existing definitions 3.35 and 3.37 by the following new definitions (including the notes):

3.35
earth protected device
device in which protection against electric shock does not rely on **basic insulation** only but which includes an additional safety precaution such as exposed conductive parts connected to the protective earthing conductor in the fixed wiring of the installation in such a way that exposed conductive parts cannot become live in the event of a failure of the **basic insulation**

NOTE This provision includes a protective conductor in the supply cable.

3.37
installation protected device
device in which the protection against electric shock does not rely on **basic insulation** only, but in which additional safety precautions are provided during the installation according to the installation rules

NOTE This definition is in accordance with 7.2.3 of IEC 61140.

Page 29

7 Marking

Replace, on page 31, the existing subclause 7.3 by the following new subclause:

7.3 When symbols are used, they shall be as follows:

Ampere ..... A

Volt V

Volt-ampere, watt .....VA; W

Alternating current (no. 5032 of IEC 60417) ..... ~

Hertz ..... Hz

Hours .....h

Minutes ..... min

Seconds .....s

Direct current (no. 5031 of IEC 60417)..... ⎓

Neutral ..... N

Protective earth (no. 5019 of IEC 60417) ..... ⏚

Degree of protection according to IEC 60529 .....IPXX

Ambient temperature limits if outside the range from 0 °C to 35 °C. ..... Y T Z

If a symbol for nature of supply is used, it shall be placed next to the marking for rated voltage.

NOTE 1 The letter "X" should be replaced by the relevant number. An additional letter can be used according to IEC 60529.

NOTE 2 The letter "Y" before the "T" is replaced by the lowest ambient temperature. The letter "Z" after the "T" is replaced by the highest ambient temperature.

Examples:

–10 T 55: means from –10 °C up to +55 °C

–10 T 35: means from –10 °C up to +35 °C

10 T 55: means from +10 °C up to +55 °C

0 T 55: means from 0 °C up to +55 °C

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Page 33

8 Protection against electric shock

Replace, on page 35, the text of the eighth paragraph by the following new paragraph:

In addition, openings in insulating material or unearthed conductive parts are tested by applying the test pin shown in Figure 11 without appreciable force in every possible position.

Page 45

10 Normal operation

Replace the last paragraph of this Clause by the following:

After the test, the device shall show no damage in the sense of this standard and shall continue to function correctly.

Page 47

11 Temperature rise

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Replace, on page 49, the existing text of subclause 11.6 by the following:

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11.6 ***Plug-in devices*** *shall be inserted into the relevant socket-outlet in accordance with the relevant national standard.*

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Replace, on page 51, the first paragraph of subclause 11.8 by the following:

11.8 *The devices are operated under* ***normal use*** *as specified in clause 10 but while maintaining the ON/OFF ratio as specified by the manufacturer until steady state conditions are established for continuously rated and intermittent* ***type D devices*** *and until completion of the* ***normal use*** *duty cycles for other devices.*

Page 51

Subclause 11.9

Add, after the existing text of subclause 11.9, before Table 3, the following new paragraphs:

Heat resisting sleeves shall be so designed that they are reliably retained in position when the device has been mounted. Insulating sleeves shall have adequate mechanical, electrical and thermal strength. The heat resisting sleeve shall be resistant to a temperature of 120 °C or withstand the following test:

a) Three test specimens of the sleeve, about 15 cm in length, are subjected to humidity test of 13.4 and subsequently to the insulating resistance and electric strength tests according to clause 14. A suitable un-insulated copper conductor or metal rod is passed through the specimens, and the outside is covered by a metal foil in such a way that no flashover at the ends of the sample can occur. The measurement of the insulation resistance and the electrical strength test is made between the copper conductors/metal rod and metal foil.

b) After the copper conductors/metal rod and metal foil have been removed, the specimens are placed in a cabinet for 240 h at the temperature of 140 °C.

c) The specimens are allowed to cool to room temperature and are then prepared as indicated under item a) above.

Measurement of the insulating resistance and electric strength is then made between the copper conductors/metal rod and metal foil.

Compliance is checked by the insulation resistance values and test voltages specified in Tables 5, 6, 7a, 7b and 8.

Page 53

Table 3 – Values of maximum temperature rise

Add, in the row for "Rubber or PVC insulation of internal and external wiring including supply cords", an additional line, so as to align with IEC 60598:

	K
Rubber or PVC insulation of internal and external wiring including supply cords:	
– without T marking	50
– with T marking	T – 25
– with protection by a heat resisting sleeve supplied with the device	95

Page 55

Table 4a – Temperature limits of windings

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Replace the table header "Temperature limit °C" by the following new table header:

Temperature limit (Δt + 25 K)

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Table 4b – Temperature limits of enclosures, supply cable and wiring

Replace the table header "Temperature limit °C" by the following new table header:

Temperature limit (Δt + 25 K)

Page 57

13.1 Resistance to ageing

Convert the second paragraph into a note:

NOTE In general, it is only necessary to test devices having or being supplied with **enclosures** or parts of PVC or similar thermoplastic material and parts of rubber, such as sealing rings and gaskets.

Page 59

13.3.1

Replace, on page 61, the penultimate paragraph by the following new text:

Parts which can be removed without the aid of a tool are removed except for parts of luminaires and indicating devices.

Page 73

Subclause 15.3

Replace the existing first paragraph by the following:

15.3 *The **bases** of ordinary surface-type devices are first fixed to a cylinder of rigid steel sheet, with a radius equal to 4,5 times the horizontal distance between fixing holes, but in any case not less than 20 cm.*

Page 77

15.8 Verification of the outline of covers, cover-plates or actuating members

Replace the existing title by the following new title:

15.8 Verification of the outline of covers, cover-plates or actuating members for flush-mounted products

Page 79

15.9 Verification of grooves, holes and reverse tapers

Delete the title, text and note of this subclause.

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18 Components

Replace the existing text of subclauses 18.2, 18.3 and 18.4 by the following:

18.2 Plugs and sockets for **ELV** shall not be interchangeable with the national requirements for plugs and socket outlets of the country where the product is placed on the market or with connectors and device inlets complying with the standard sheets of IEC 60320.

18.3 Plugs and socket-outlets and other connecting devices of interconnecting flexible cables shall not be interchangeable with the national requirements for plugs and socket outlets of the country where the product is placed on the market or with connectors and appliance inlets complying with the standard sheets of IEC 60320 if direct supply to these parts from the supply mains could give rise to a hazard.

18.4 Plug-in devices shall be fitted with plug portions for insertion into socket-outlets according to the national requirements for plugs and socket outlets of the country where the product is placed on the market.

19 Terminals

Replace the entire text of this clause by the following:

Terminals shall meet the requirements of the appropriate tests of IEC 60998 and shall allow the proper connection of supply conductors having cross-sectional areas from 0,5 mm^2up to and including 1,5 mm^2.

NOTE Each supply **terminal** may allow the connection of two or more conductors.

Compliance is checked by the appropriate tests according to the IEC 60998 series.

Page 105

24.2 Glow-wire test

Add, after item b) of the first paragraph, the following two paragraphs:

A current carrying part or a part of the earthing circuit retained by a mechanical means is considered to be retained in position. The use of grease or the like is not considered to be mechanical means.

In case of doubt, to determine whether an insulating material is necessary to retain current carrying parts and parts of the earthing circuit in position, the device is examined without conductors while held in all positions with the insulating material in question removed.

Replace the third paragraph (paragraph before NOTE 1) by the following:

Small parts where each surface lies completely within a circle of 15 mm diameter, or where any part of the surface lies outside a 15 mm diameter circle and where it is not possible to fit a circle of 8 mm diameter on any surfaces are not subjected to the test of this subclause (see Figure 13 for diagrammatic representation).

Page 121

Figure 6 – Examples of application of the gauge of figure 4 in accordance with the requirements

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Add, above the figure title, the following text (from IEC 60669-1):

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Dimensions in millimeters

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Cases a) and b): do not comply

Cases c), d), e) and f): comply

Page 123

Figure 7 – Gauge for verification of grooves, holes and reverse tapers

Delete Figure 7 and its title and insert the following new text:

Figure 7 – Void

Page 131

Annex A Electronic devices

Delete, on page 133, subclause A.2.3.

Page 135

A.3.1.2 Capacitors

Convert, on page 135, in the first paragraph, the word "**terminals**" *(bold) into regular text,* "terminals".

Page 137

Annex B – EMC requirements

Add, on page 141, in Table B.1, a reference to an additional note "i" into the cell under "Family 7, Immunity" by amending the text to read:

Withstand to 1,2/50 µs wave impulse (surge) [i]

Add, at the end of Table B.1, an additional note "i":

[i] Devices powered by an external power supply (transformer) shall comply with the following requirements:
- withstand to 1,2/50 µs wave impulse (surge);
- for voltage <75 (DC)/50 (AC) V, level 1 kV CM, 500 V DM, source impedance 40 Ω.

Page 153

Add, after Figure "Example No. 10, the following new Bibliography.

Bibliography

IEC 60061-2, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders*

IEC 60061-3, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges*

IEC 60238, *Edison screw lampholders*

IEC 60357, *Tungsten halogen lamps (non-vehicle) – Performance specifications*

IEC 60838 (all parts), *Miscellaneous lampholders*

IEC 61140, *Protection against electric shock – Common aspects for installation and equipment*

IEC 61184, *Bayonet lampholders*

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