
Automatic electrical controls for household and similar use -- Part 2: Particular requirements for humidity sensing controls (IEC 60730-2-13:1995)

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ICS 97.120

Referenčna številka
SIST EN 60730-2-13:1999(en)

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English version

Automatic electrical controls for household and similar use Part 2-13: Particular requirements for humidity sensing controls

(includes amendment A1:1998)
(IEC 60730-2-13:1995 + A1:1997)

Dispositifs de commande électrique
automatiques à usage domestique et analogue
Partie 2-13: Règles particulières pour les
dispositifs de commande sensibles à l'humidité
(inclut l'amendement A1:1998)
(CEI 60730-2-13:1995 + A1:1997)

Automatische elektrische Regel- und
Steuergeräte für den Hausgebrauch und
ähnliche Anwendungen
Teil 2-13: Besondere Anforderungen an
feuchtigkeitsempfindliche Regel- und
Steuergeräte
(enthält Änderung A1:1998)
(IEC 60730-2-13:1995 + A1:1997)

This European Standard was approved by CENELEC on 1998-08-01; amendment A1 was approved by CEN on 1998-04-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Foreword

The text of the International Standard IEC 60730-2-13:1995, prepared by IEC TC 72, Automatic controls for household use, together with common modifications prepared by the Technical Committee CENELEC TC 72, was submitted to the formal vote and was approved by CENELEC as EN 60730-2-13 on 1998-08-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1999-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2000-08-01

This part 2 is to be used in conjunction with EN 60730-1:1995, *Automatic electrical controls for household and similar use — Part 1: General requirements, and its amendments*.

This part 2 supplements or modifies the corresponding clauses of EN 60730-1 so as to convert it into the European Standard "*Safety requirements for humidity sensing controls*".

Where a particular clause or subclause of part 1 is not mentioned in this part 2, that clause or subclause applies as far as is reasonable. Where this part 2 states "addition", "modification" or "replacement", the relevant text of part 1 is to be adapted accordingly.

Subclauses and notes which are additional to those in part 1 are numbered starting from 101. Annexes which are additional are lettered AA, BB, etc.

Where reference is made to other international or harmonized standards, the edition of that standard quoted in Annex ZA of EN 60730-1 is applicable.

There are no special national conditions (snc) causing a deviation from this European Standard other than those listed in Annex ZB of EN 60730-1.

There are no national deviations from this European Standard other than those listed in Annex ZC of EN 60730-1.

Foreword to EN 60730-2-13:1998/A1:1998

The text of amendment 1:1997 to the International Standard IEC 60730-2-13:1995, prepared by IEC TC 72, Automatic controls for household use, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to EN 60730-2-13:1998 on 1998-08-01 without any modification.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1999-04-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2003-08-01

NOTE This corrigendum includes and replaces the corrigendum to EN 60730-2-13:1998/A1:1998 of August 1998.

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1 Scope and normative references

This clause of part 1 is applicable except as follows:

1.1 Replacement:

This part of IEC 60730 applies to automatic electrical humidity sensing controls for use in, on or in association with equipment for household and similar use, including controls for heating, air-conditioning and similar applications. The equipment may use electricity, gas, oil, solid fuel, solar thermal energy, etc. or a combination thereof.

1.1.1 This part 2 applies to the inherent safety, to the operating values, operating times, and operating sequences where such are associated with equipment safety. It also applies to the testing of automatic electrical control devices used in, or in association with, household or similar equipment.

This part 2 does not apply to automatic electrical controls designed exclusively for industrial applications.

This part 2 is also applicable to individual controls utilized as part of a control system or controls which are mechanically integral with multifunctional controls having non-electrical outputs.

This part 2 applies to automatic electric controls using NTC or PTC thermistors, additional requirements for which are contained in Annex J.

Automatic electrical controls for equipment not intended for normal household use, but which nevertheless may be used by the public, such as equipment intended to be used by laymen in shops, in light industry and on farms, are within the scope of this part 2.

1.1.2 This part 2 is also applicable to controls for appliances within the scope of IEC 60335.

Throughout this part 2, the word "equipment" includes "appliance" and "control system".

1.1.3 This part 2 applies to manual controls when such are electrically and/or mechanically integral with automatic controls.

Requirements for manual switches not forming part of an automatic control are contained in IEC 61058.

1.2 Replacement:

This part 2 applies to controls with a rated voltage not exceeding 660 V and with a rated current not exceeding 63 A.

1.3 Replacement:

This part 2 does not take into account the response value of an automatic action of a control, if such a response value is dependent upon the method of mounting the control in the equipment. Where a response value is of significant purpose for the protection of the user or surroundings, the value defined in the appropriate household equipment standard or as determined by the manufacturer shall apply.

1.4 Replacement:

This part 2 applies also to controls incorporating electronic devices, requirements for which are contained in Annex H.

2 Definitions

This clause of part 1 is applicable except as follows:

2.2 Definitions of types of control according to purpose

2.2.19

Addition:

In general, a humidity sensing control is an operating control.

Additional definitions:

2.2.101 humidity sensing control

an automatic electrical control which is either intended to keep the controlled humidity above, below or between a particular value(s)

2.2.102 room humidistat

an independently mounted or incorporated humidity sensing control intended to control the humidity of habitable space

3 General requirements

This clause of part 1 is applicable.

4 General notes on tests

This clause of part 1 is applicable.

5 Rating

This clause of part 1 is applicable.

6 Classification

This clause of part 1 is applicable except as follows:

6.3.9 Additional subclauses:

6.3.9.101 — humidity sensing control;

6.3.9.102 — room humidistat;

7 Information

This clause of part 1 is applicable except as follows:

Table 7.2

Information	Clause or subclause	Method
<i>Modifications:</i>		
39	Not applicable	
40	Not applicable	
<i>Additional note:</i>		
101) Humidity sensing controls are classified as having type 1 action.		

8 Protection against electric shock

This clause of part 1 is applicable.

9 Provision for protective earthing

This clause of part 1 is applicable.

10 Terminals and terminations

This clause of part 1 is applicable.

11 Constructional requirements

This clause of part 1 is applicable.

12 Moisture and dust resistance

This clause of part 1 is applicable.

13 Electric strength and insulation resistance

This clause of part 1 is applicable except as follows:

13.2.4 Additional paragraph to note 4 of Table 13.2:

In the case of humidity sensing controls it may be necessary to provide specially calibrated samples to enable this test to be performed.

14 Heating

This clause of part 1 is applicable.

15 Manufacturing deviation and drift

This clause of part 1 is applicable.

16 Environmental stress

This clause of part 1 is applicable.

17 Endurance

This clause of part 1 is applicable except as follows:

17.1.3 Test sequence and conditions

Additional subclause:

17.1.3.101 For humidity sensing controls, the tests of clause 17 are conducted with the activating quantity agreed between the manufacturer and testing authority.

17.8 Test of automatic action at accelerated rate

Additional subclause:

17.8.4.101 The number of automatic and manual cycles for independently mounted and in-line cord controls shall be as indicated in clause AA.1 of Annex AA, unless a higher number is declared by the manufacturer.

17.16 Tests for particular purpose controls

Additional subclauses:

17.16.101 Humidity sensing controls

- Subclauses 17.1, 17.2, 17.3, 17.4 and 17.5 inclusive are applicable.
- 17.6 is applicable to actions classified as type 1.M or 2.M, the value of "X" being agreed between manufacturer and testing authority.
- 17.7 is applicable.
- 17.8 is applicable.
- 17.9 is applicable.
- 17.9.3.1 is not applicable.
- 17.10, 17.11, 17.12, 17.13 and 17.14, inclusive are applicable.
- 17.15 Void

18 Mechanical strength

This clause of part 1 is applicable.

19 Threaded parts and connections

This clause of part 1 is applicable.

20 Creepage distances, clearances and distances through insulation

This clause of part 1 is applicable.

21 Resistance to heat, fire and tracking

This clause of part 1 is applicable.

22 Resistance to corrosion

This clause of part 1 is applicable.

23 Radio interference suppression

This clause of part 1 is applicable.

24 Components

This clause of part 1 is applicable.

25 Normal operation

This clause of part 1 is applicable. See also Annex H.

26 Operation with mains borne perturbations, magnetic, and electromagnetic disturbances

This clause of part 1 is applicable. See also Annex H.

27 Abnormal operation

This clause of part 1 is applicable. See also Annex H.

28 Guidance on the use of electronic disconnection

This clause of part 1 is applicable.

Figures

The Figures of part 1 are applicable.

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