



SLOVENSKI STANDARD
oSIST prEN IEC 60730-2-13:2024
01-september-2024

Avtomatske električne krmilne naprave - 2-13. del: Posebne zahteve za zaznavala (senzorje) vlage

Automatic electrical controls - Part 2-13: Particular requirements for humidity sensing controls

Automatische elektrische Regel- und Steuergeräte für den Hausgebrauch und ähnliche Anwendungen - Teil 2-13: Besondere Anforderungen an feuchtigkeitsempfindliche Regel- und Steuergeräte

Dispositifs de commande électrique automatiques - Partie 2-13: Exigences particulières pour les dispositifs de commande sensibles à l'humidité

Ta slovenski standard je istoveten z: prEN IEC 60730-2-13:2024

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ICS:

97.120	Avtomatske krmilne naprave za dom	Automatic controls for household use
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SECRETARIAT: United States of America	SECRETARY: Ms Grace Roh
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input checked="" type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input checked="" type="checkbox"/> SAFETY	
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Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Automatic electrical controls - Part 2-13: Particular requirements for humidity sensing controls

PROPOSED STABILITY DATE: 2028

NOTE FROM TC/SC OFFICERS:

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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AUTOMATIC ELECTRICAL CONTROLS –

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Part 2-13: Particular requirements for humidity sensing controls

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FOREWORD

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66 all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international
67 co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and
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70 preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with
71 may participate in this preparatory work. International, governmental and non-governmental organizations liaising
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73 Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

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76 interested IEC National Committees.

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91 expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC
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93 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is
94 indispensable for the correct application of this publication.

95 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent
96 rights. IEC shall not be held responsible for identifying any or all such patent rights.

97 IEC 60730-2-13 has been prepared by IEC technical committee 72: AUTOMATIC ELECTRICAL
98 CONTROLS. It is an International Standard.

99 This 4.0 edition cancels and replaces the 3.0 edition published in 2019-05. This edition
100 constitutes a technical revision.

101 This edition includes the following significant technical changes with respect to the previous
102 edition:

103 ...;

104 a) adoption to IEC 60730-1 Ed.6.0 with all of its significant changes to IEC 60730-1 Ed.5.1,

105 The text of this International Standard is based on the following documents:

Draft	Report on voting
XX/XX/FDIS	XX/XX/RVD

106

107 Full information on the voting for its approval can be found in the report on voting indicated in
108 the above table.

109 The language used for the development of this International Standard is English.

110 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in
111 accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available
112 at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are
113 described in greater detail at www.iec.ch/publications.

114 A list of all parts of the IEC 60730 series, under the general title: AUTOMATIC ELECTRICAL
115 CONTROL, can be found on the IEC website.

116 This part 2-13 is intended to be used in conjunction with IEC 60730-1. It was established on the
117 basis of the sixth edition of that standard (2022). Consideration may be given to future editions
118 of, or amendments to, IEC 60730-1.

119 This part 2-13 supplements or modifies the corresponding clauses in IEC 60730-1, so as to
120 convert that publication into the IEC standard: Particular requirements for electric actuators.

121 Where this part 2-13 states "addition", "modification" or "replacement", the relevant require-
122 ment, test specification or explanatory matter in part 1 should be adapted accordingly.

123 Where no change is necessary part 2-13 indicates that the relevant clause or subclause applies.

124 In the development of a fully international standard it has been necessary to take into
125 consideration the differing requirements resulting from practical experience in various parts of
126 the world and to recognize the variation in national electrical systems and wiring rules.

127 The reader's attention is drawn to the fact that Annex Q, Annex R, Annex S and Annex T list all
128 of the "in-some-country" clauses on differing practices of a less permanent nature relating to
129 the subject of this document.

130 In this publication:

131 1) The following print types are used:

- 132 – requirements proper: in roman type;
- 133 – *test specifications: in italic type*;
- 134 – explanatory matter: in smaller roman type.
- 135 – Defined terms: **bold type**.

136 2) Subclauses, notes or items which are additional to those in Part 1 are numbered starting
137 from 101, additional annexes are lettered AA, BB, etc.

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141 The committee has decided that the contents of this document will remain unchanged until the
142 stability date indicated on the IEC website under webstore.iec.ch in the data related to the
143 specific document. At this date, the document will be

- 144 • reconfirmed,
145 • withdrawn,
146 • replaced by a revised edition, or
147 • amended.

148

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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AUTOMATIC ELECTRICAL CONTROLS –

Part 2-13: Particular requirements for humidity sensing controls

1 Scope

This clause of Part 1 is replaced by the following:

This document applies to automatic **electrical humidity sensing controls**

- for use in, on, or in association with equipment for household appliance and similar use;

NOTE 1 Throughout this document, the word "equipment" means "appliance and equipment" and „controls“ means „humidity sensing control“.

- for building automation within the scope of ISO 16484 series and IEC 63044 series (HBES/BACS);

- for equipment that is used by the public, such as equipment intended to be used in shops, offices, hospitals, farms and commercial and industrial applications;

EXAMPLE 1 Humidity Sensing Controls for commercial catering, heating and air-conditioning equipment.

- that are **smart enabled controls**;

EXAMPLE 2 Smart grid control, remote interfaces/control of energy-consuming equipment including computer or smart phone.

- that are AC or DC powered controls with a rated voltage not exceeding 690 V AC or 600 V DC where the DC source is provided by primary or secondary batteries;

- used in, on, or in association with equipment that use electricity, gas, oil, solid fuel, solar thermal energy, etc., or a combination thereof;

- utilized as part of a control system or controls which are mechanically integral with multifunctional controls having non-electrical outputs;

- using NTC or **PTC thermistors** and to discrete **thermistors**, requirements for which are contained in Annex J;

- that are mechanically or electrically operated, responsive to or controlling such characteristics as temperature, pressure, passage of time, humidity, light, electrostatic effects, flow, or liquid level, current, voltage, acceleration, or combinations thereof;

- as well as manual controls when such are electrically and/or mechanically integral with automatic controls.

NOTE 2 Requirements for manually actuated mechanical switches not forming part of an automatic control are contained in IEC 61058-1-1.

This document applies to

- the inherent safety of automatic **electrical humidity sensing controls**, and
- functional safety of automatic **electrical humidity sensing controls** and safety related systems,
- **humidity sensing controls** where the performance (for example the effect of EMC phenomena) of the product can impair the overall safety and performance of the controlled system,
- the operating values, operating times, and operating sequences where such are associated with equipment safety.

This document specifies the requirements for construction, operation and testing of automatic electrical humidity sensing controls used in, on, or in association with an equipment.

197 This document does not

- 198 • apply to automatic **electrical humidity sensing controls** intended exclusively for industrial
199 process applications unless explicitly mentioned in the relevant part 2 or the equipment
200 standard. However, this document can be applied to evaluate **humidity sensing controls**
201 intended specifically for industrial applications in cases where no relevant safety standard
202 exists.
- 203 • take into account the response value of an automatic action of a **humidity sensing control**,
204 if such a response value is dependent upon the method of mounting the **humidity sensing**
205 **control** in the equipment. Where a response value is of significant purpose for the protection
206 of the user, or surroundings, the value defined in the appropriate equipment standard or as
207 determined by the manufacturer will apply.
- 208 • address the integrity of the output signal to the network devices, such as interoperability
209 with other devices unless it has been evaluated as part of the control system.

210 **2 Normative references**

211 This clause of Part 1 is applicable.

212 **3 Terms and definitions**

213 This clause of Part 1 is applicable except as follows:

214 **3.2 Definitions of types of control according to purpose**

215 *Add the following definitions*

216 **3.2.101**

217 **humidity sensing control**

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

220 **3.2.102**

221 **room humidistat**

222 independently mounted or incorporated **humidity sensing control** intended to control the
223 humidity of habitable space

224 **4 General**

225 This clause of Part 1 is applicable.

226 **5 Required technical information**

227 This clause of Part 1 is applicable.

228 **6 Protection against electric shock**

229 This clause of Part 1 is applicable.

230 **7 Provision for protective earthing**

231 This clause of Part 1 is applicable.