

FINAL VERSION

VERSION FINALE

**Automatic electrical controls –
Part 2-6: Particular requirements for automatic electrical pressure sensing
controls including mechanical requirements**

**Dispositifs de commande électrique automatiques –
Partie 2-6: Exigences particulières pour les dispositifs de commande électrique
automatiques sensibles à la pression, y compris les exigences mécaniques**

CONTENTS

FOREWORD	4
1 Scope and normative references	7
2 Terms and definitions	8
3 General requirements	9
4 General notes on tests	9
5 Rating.....	10
6 Classification	10
7 Information	11
8 Protection against electric shock	11
9 Provision for protective earthing	11
10 Terminals and terminations.....	11
11 Constructional requirements	12
12 Moisture and dust resistance	14
13 Electric strength and insulation resistance	14
14 Heating.....	14
15 Manufacturing deviation and drift.....	14
16 Environmental stress	15
17 Endurance	15
18 Mechanical strength	16
19 Threaded parts and connections.....	17
20 Creepage distances, clearances and distances through solid insulation.....	17
21 Resistance to heat, fire and tracking	17
22 Resistance to corrosion	18
23 Electromagnetic compatibility (EMC) requirements – Emission	18
24 Components	18
25 Normal operation.....	18
26 Electromagnetic compatibility (EMC) requirements – Immunity	18
27 Abnormal operation	18
28 Guidance on the use of electronic disconnection	18
Annexes	19
Annex H (normative) Requirements for electronic controls	20
Annex A\ (normative) Number of cycles	27
A.1 Number of cycles for independently mounted controls.....	27
A.2 Cycling rate for independently mounted controls	27
Annex BB (informative) Stainless steel for bellows, bourdon tubes or similar elements	28
Annex CC (informative) Deviation and drift requirements for pressure operating controls.....	31
Bibliography.....	32

Table 1 (7.2 of edition 3) – Required information and methods of providing information	11
Table H.101 – Compliance criteria	22
Table BB.1 – Stainless steel for bellows, bourdon tubes or similar elements	28

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

AUTOMATIC ELECTRICAL CONTROLS –

Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements

FOREWORD

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This Consolidated version is not an official IEC Standard and has been prepared for user convenience. Only the current versions of the standard and its amendment(s) are to be considered the official documents.

This Consolidated version of IEC 60730-2-6 bears the edition number 3.1. It consists of the third edition (2015-04) [documents 72/980/FDIS and 72/992/RVD] and its amendment 1 (2019-09) [documents 72/1180/FDIS and 72/1186A/RVD]. The technical content is identical to the base edition and its amendment.

This Final version does not show where the technical content is modified by amendment 1. A separate Redline version with all changes highlighted is available in this publication.

International Standard IEC 60730-2-6 has been prepared by IEC technical committee 72: Automatic electrical controls.

This third edition constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition:

- a) aligns the text with IEC 60730-1, Edition 5;
- b) modifies requirements for Class B control function (H.27.1.2.2);
- c) modifies requirements for Class C control function (H.27.1.2.3);
- d) modifies requirements for faults during lock-out or safety- shut-down.

The French version of this standard has not been voted upon.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This part 2 is intended to be used in conjunction with IEC 60730-1. It was established on the basis of the fifth edition (2013) of that publication. Consideration may be given to future editions of, or amendments to, IEC 60730-1.

This part 2 supplements or modifies the corresponding clause in IEC 60730-1 so as to convert that publication into the IEC standard: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements.

Where this part 2 states "addition", "modification", or "replacement", the relevant requirement, test specification or explanatory matter in part 1 should be adapted accordingly.

Where no change is necessary, this part 2 indicates that the relevant clause or subclause applies.

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

The "in some countries" notes regarding differing national practices are contained in the following subclauses:

10.1.4

15.1.101

18.101

Annex CC

In this publication:

- 1) The following print types are used:
 - Requirements proper: in roman type;
 - *Test specifications: in italic type;*
 - Notes; in small roman type;
 - Words defined in Clause 2: **bold**.
- 2) Subclauses, notes, tables and figures which are additional to those in part 1 are numbered starting from 101, additional annexes are lettered AA, BB, etc.

A list of all parts of the IEC 60730 series, published under the title *Automatic electrical controls* can be found on the IEC website.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until the stability 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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AUTOMATIC ELECTRICAL CONTROLS –

Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements

1 Scope and normative references

This clause of Part 1 is applicable except as follows:

1.1 Scope

Replacement:

This part of IEC 60730 applies to **automatic electrical pressure sensing controls** for use in, on or in association with, equipment. The equipment may use electricity, gas, oil, solid fuel, solar thermal energy, etc. or a combination thereof.

NOTE Throughout this standard, the word “equipment” includes “appliances” and “control system”.

This standard is also applicable to individual pressure **sensing controls** utilized as part of a **control system** or pressure **sensing controls** which are mechanically integral with multi-functional controls having non-electrical outputs.

Automatic electrical pressure **sensing controls** for equipment 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 standard.

This standard does not apply to pressure **sensing controls** intended exclusively for industrial process applications unless explicitly mentioned in the relevant equipment standard.

1.1.1 *Replacement:*

This standard applies to inherent safety, **operating values**, **operating sequences** where such are associated with equipment protection, and to the testing of automatic electrical pressure **sensing controls** used in, on or in association with equipment.

This standard is also applicable to the functional safety of low complexity safety related pressure **sensing controls** and **systems**.

This standard is also applicable to pressure **sensing controls** for appliances within the scope of IEC 60335-1.

See also Annex J.

1.1.2 *Addition:*

This standard applies to automatic **electrical controls**, mechanically or electrically operated, responsive to or controlling a pressure or vacuum.

1.1.3 Not applicable.

1.1.4 *Replacement:*