UL 60730-2-6

STANDARD FOR SAFETY

Automatic Electrical Controls – Part 2-6: Particular Requirements for Automatic Electrical Pressure Sensing Controls Including Mechanical Requirements

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UL Standard for Safety for Automatic Electrical Controls – Part 2-6: Particular Requirements for Automatic Electrical Pressure Sensing Controls Including Mechanical Requirements, UL 60730-2-6

Third Edition, Dated December 22, 2016

Summary of Topics

This revision of ANSI/UL 60730-2-6 dated December 2, 2024 includes compressed hydrogen gas pressure sensing controls, Annex DVF.

UL 60730-2-6 is an adoption of IEC 60730-2-6, Edition 3 including amendment 1 published by the IEC September 2019. Please note that the national difference document incorporates all of the U.S. national differences for UL 60730-2-6.

Text that has been changed in any manner or impacted by ULSE's electronic publishing system is marked with a vertical line in the margin.

The new requirements are substantially in accordance with Proposal(s) on this subject dated February 23, 2024 and August 30, 2024.

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ANSI/UL 60730-2-6-2024

UL 60730-2-6

Standard for Automatic Electrical Controls – Part 2-6: Particular Requirements for Automatic Electrical Pressure Sensing Controls Including Mechanical Requirements

Prior to the first edition of UL 60730-2-6, the requirements for the products covered by this Standard were included in UL 8730-2-6.

First Edition – February, 2002
Second Edition – October, 2013

Third Edition

December 22, 2016

This ANSI/UL Standard for Safety consists of the Third Edition including revisions through December 2, 2024.

The most recent designation of ANSI/UL 60730-2-6 as an American National Standard (ANSI) occurred on December 2, 2024. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or Preface. The National Difference Page and IEC Foreword are also excluded from the ANSI approval of IEC-based standards.

Comments or proposals for revisions on any part of the Standard may be submitted to ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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Bibliography

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Preface (UL)

This UL Standard is based on IEC Publication 60730-2-6: third edition including Amendment 1, Automatic Electrical Controls – Part 2-6: Particular Requirements for Automatic Electrical Pressure Sensing Controls Including Mechanical Requirements. IEC publication 60730-2-6 is copyrighted by the IEC.

This UL Standard 60730-2-6, Standard for Automatic Electrical Controls – Part 2-6: Particular Requirements for Automatic Electrical Pressure Sensing Controls Including Mechanical Requirements, is to be used in conjunction with the fifth edition of UL 60730-1. The requirements for electric actuators are contained in this Part 2 Standard and UL 60730-1.

Requirements of this Part 2 Standard, where stated, amend the requirements of UL 60730-1.

Where a particular subclause of UL 60730-1 is not mentioned in UL 60730-2-6, the UL 60730-1 subclause applies.

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Note – Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.

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NATIONAL DIFFERENCES

GENERAL

National Differences from the text of International Electrotechnical Commission (IEC) Publication 60730-2-6, Automatic Electrical Controls – Part 2-6: Particular Requirements for Automatic Electrical Pressure Sensing Controls Including Mechanical Requirements, copyright 2019, are indicated by notations (differences) and are presented in bold text.

There are five types of National Differences as noted below. The difference type is noted on the first line of the National Difference in the standard. The standard may not include all types of these National Differences.

DR – These are National Differences based on the **national regulatory requirements**.

D1 – These are National Differences which are based on **basic safety principles and requirements**, elimination of which would compromise safety for consumers and users of products.

D2 – These are National Differences from IEC requirements based on existing **safety practices**. These requirements reflect national safety practices, where empirical substantiation (for the IEC or national requirement) is not available or the text has not been included in the IEC standard.

DC – These are National Differences based on the **component standards** and will not be deleted until a particular component standard is harmonized with the IEC component standard.

DE – These are National Differences based on **editorial comments or corrections**.

Each national difference contains a description of what the national difference entails. Typically one of the following words is used to explain how the text of the national difference is to be applied to the base IEC text:

Addition / Add - An addition entails adding a complete new numbered clause, subclause, table, figure, or annex. Addition is not meant to include adding select words to the base IEC text.

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FOREWORD

INTERNATIONAL ELECTROTECHNICAL COMMISSION

AUTOMATIC ELECTRICAL CONTROLS – Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

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

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.

International Standard IEC 60730-2-6 has been prepared 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);

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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 clauses 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 variation 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.

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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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101DV DE *Addition to the part 2:*

The numbering system in the Standard uses a space instead of a comma to indicate thousands and uses a comma instead of a period to indicate a decimal point. For example, 1 000 means 1,000 and 1,01 means 1.01.

102DV DE *Modification of the paragraph starting with, "In this publication"*

– words in SMALL ROMAN CAPITALS in the text are defined in clause 2.

103DV D2 *Modification of the of the 6th paragraph after item (9) by replacing it with the following paragraph:*

This part 2-6 is intended to be used in conjunction with the latest edition of UL 60730-1 and its revisions.

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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.

1.1DV D2 *Modification of the first paragraph of 1.1 of the part 2 by adding the following:*

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.

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.

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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:*

This standard applies to MANUAL CONTROLS when such are electrically and/or mechanically integral with pressure SENSING CONTROLS.

NOTE Requirements for manual switches not forming part of an AUTOMATIC CONTROL are contained in IEC 61058-1.

1.1.5

Replacement:

This standard applies to a.c. or d.c. powered pressure SENSING CONTROLS with a rated voltage not exceeding 690 V a.c. or 600 V d.c.

1.1.6

Replacement:

This standard does not take into account the RESPONSE VALUE of an AUTOMATIC ACTION of a pressure SENSING CONTROL, if such a RESPONSE VALUE is dependent upon the method of mounting it 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 equipment standard or as determined by the manufacturer shall apply.

1.1.7

Replacement:

This standard applies also to pressure SENSING CONTROLS incorporating ELECTRONIC DEVICES, requirements for which are contained in Annex H.

This standard applies also to pressure SENSING CONTROLS using NTC or PTC THERMISTORS, requirements for which are contained in Annex J.

Additional subclauses:

1.1.101 This standard contains requirements for electrical features of pressure SENSING CONTROLS and requirements for mechanical features that affect their intended OPERATION.

NOTE Subclause 18.101, as it pertains to gas and/or oil CONTROLS, is under consideration pending review or revision of ISO 22967, ISO 22968 and ISO 23550 series, if applicable.

1.1.102 In general, these pressure SENSING CONTROLS are integrated or incorporated with the equipment or are intended to be integrated in, or on the equipment. This standard also covers these CONTROLS when they are independently mounted. IN-LINE CORD CONTROLS are not covered by this standard.

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2 Terms and definitions

This clause of Part 1 is applicable except as follows:

2.2 Definitions of types of control according to purpose

Additional definitions:

2.2.101 PRESSURE LIMITER: pressure SENSING CONTROL which is intended to keep a pressure below or above a predetermined value during normal operating conditions and which may have provision for SETTING by the user

Note 1 to entry: A pressure limiter may be of the automatic or of the manual reset type. It does not make the reverse OPERATION during the normal DUTY CYCLE of the equipment.

2.2.102 PRESSURE OPERATING CONTROL: pressure SENSING CONTROL set at a high or low pressure, or both, between which limits the equipment is normally intended to operate

2.2.103 PRESSURE CUT-OUT: pressure SENSING CONTROL intended to keep a pressure below or above one particular value during abnormal operating conditions of the equipment and which has no provisions for SETTING BY THE USER

Note 1 to entry: A pressure cut-out may be of the automatic or of the manual reset type.

A pressure cut-out will provide a Type 2 action.

A pressure cut-out may have an adjustable stop intended to be set by the CONTROL MANUFACTURER, the EQUIPMENT MANUFACTURER or the INSTALLER.

2.3 Definitions relating to the function of controls

Additional definitions:

2.3.101 PRESSURE MEDIUM: medium used to transmit the pressure to the pressure SENSING ELEMENT

Note 1 to entry: PRESSURE MEDIUM as used in this standard refers to either gases or liquids.

2.3.102 *Deleted*

2.8 Definitions relating to component parts of controls

Additional definition:

2.8.101 VENT: that opening from the atmospheric side of a diaphragm to the atmosphere through which air is discharged or drawn in when the CONTROL is functioning

3 General requirements

This clause of Part 1 is applicable.

4 General notes on tests

This clause of Part 1 is applicable except as follows:

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