



IEC/TC OR SC: <b>TC 72</b>	SECRETARIAT: <b>USA</b>	DATE: <b>2021-04-20</b>
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Please ensure this form is annexed to the Report to the Standardization Management Board if it has been prepared during a meeting or sent to the Central Office promptly after its contents have been agreed by the committee.

**A. STATE TITLE AND SCOPE OF TC**

Are there any new or emerging trends in technology that will impact the scope and work activities of the TC? Please describe briefly.

Do you need to update your scope to reflect new and emerging technologies? If yes, will these changes impact another TC's scope or work activities?

If yes, describe how these will impact another TC(s) and list the TC(s) it would impact

**Title:** TC 72, Automatic electrical controls

**Scope:**

To prepare standards related to the inherent safety of the product and to the operating characteristics where such are associated with application safety. The scope covers the evaluation of automatic electrical control devices used in homes, buildings, appliances and other apparatus, electrical and non-electrical. The scope also covers products for industrial purposes when no dedicated product standards exist, such as that for central heating, air conditioning, process heating building automation, etc. Additionally, the following products are also included under the scope:

1. Automatic electrical control devices, mechanically, electromechanically, electrically or electronically operated. These devices are responsive to or controlling parameters such as temperature, pressure, chemical, passage of time, humidity, light, electrostatic effect, flow or liquid level.
2. Automatic electrical control devices serving the starting of small motors that are used principally in appliances and apparatus for household and similar purposes. Such control devices may be built into, or are separate from, the motor.
3. Non-automatic control devices when such are associated with automatic control devices.

**New or emerging trends in technology that may impact TC72:**

Cyber-security

Functional Safety

Expanded use of intelligence in products, and the linking of products by information technology & wireless solutions ("internet of things")

Products being made smaller and more compact

Sensors or sensing technologies

## **B. MANAGEMENT STRUCTURE OF THE TC**

Describe the management structure of the TC (use of an organizational chart is acceptable) (should be integrated by CO automatically) and, if relevant (for example an unusual structure is used), provide the rationale as to why this structure is used.

Note: Check if the information on the IEC website is complete.

When was the last time the TC reviewed its management structure? Describe any changes made. When does the TC intend to review its current management structure? In the future, will the TC change the current structure, for example due to new and emerging technologies, product withdrawal, change in regulations etc. Please describe.

Make sure the overview includes:

- any joint working groups with other committees,
- any special groups like advisory groups, editing groups, etc.

Current management structure of TC72 (correctly shown on IEC website):

Chairman, Secretary and Assistant Secretary

WG 1 Burner controls and maintenance of 60730-2-5

WG 3 Motor protectors and maintenance of 60730-2-3 60730-2-10, 60730-2-22

WG 5 Timers and maintenance of 60730-2-7

WG 6 Temperature and pressure sensing controls and maintenance of 60730-2-6, 60730- 2-9, 60730-2-11, 60730-2-12, 60730-2-13, 60730-2-15

WG 8 General requirements for automatic electrical controls and maintenance of 60730-1

WG 9 Electric actuators and valves, 60730-2-8, 60730-2-14

WG 12 Electrical sensors

WG 13 Expanded use of intelligence in products, and the linking of products by information technology & wireless solutions

PT 60730: PT for Automatic electrical controls-Part 2-24: Particular requirements for displacement sensing controls

AG 1 Part 1 Restructure Advisory Group

CAG Consists of TC officers, convenors of all working groups and dedicated subject matter experts invited by the Chair

EG 1 Editing Group consists of TC officers, convenors of all working groups

## **C. BUSINESS ENVIRONMENT**

Provide the rationale for the market relevance of the future standards being produced in the TC.

If readily available, provide an indication of global or regional sales of products or services related to the TC/SC work and state the source of the data.

Specify if standards will be significantly effective for assessing regulatory compliance.

Following are several aspects of the business environment which influence the work of TC 72:

- electrical, EMC, functional safety and mechanical aspects
- the shorter life cycle of products
- IoT

- risk of cyber attacks
- products that communicate via the internet, wirelessly or other dedicated networks such as HBES/BACS networks
- The wide use of sensors in products for safety purposes and performance efficacy.

#### D. MARKET DEMAND

Provide a list of likely customers of the standards (suppliers, specifiers, testing bodies, regulators, installers, other TC/SC's etc.). Do not specify company names, only categories of customers.

- Control and system manufacturers
- Test houses
- OEMs
- Regulators

#### E. SUSTAINABLE DEVELOPMENT GOALS

INDICATE THE SUSTAINABLE DEVELOPMENT GOALS (SDGs) THAT ARE ADDRESSED BY WORK WITHIN THE TC/SC. INDICATE EACH SDG INDICATOR AFFECTED (REFERENCE SPREADSHEET AVAILABLE AT <https://www.iec.ch/SDG/>, AND PROVIDE SPECIFIC INFORMATION ABOUT HOW THE TC/SC IS ADDRESSING THE SDG. CONSIDER BOTH DIRECT AND INDIRECT IMPACTS OF THE WORK OF THE TC/SC.

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|--|---|
| <input type="checkbox"/> <b>GOAL 1:</b> No Poverty                                       | <input type="checkbox"/> <b>GOAL 10:</b> Reduced Inequality                   |
| <input type="checkbox"/> <b>GOAL 2:</b> Zero Hunger                                      | <input type="checkbox"/> <b>GOAL 11:</b> Sustainable Cities and Communities   |
| <input type="checkbox"/> <b>GOAL 3:</b> Good Health and Well-being                       | <input type="checkbox"/> <b>GOAL 12:</b> Responsible Consumption & Production |
| <input type="checkbox"/> <b>GOAL 4:</b> Quality Education                                | <input type="checkbox"/> <b>GOAL 13:</b> Climate Action                       |
| <input type="checkbox"/> <b>GOAL 5:</b> Gender Equality                                  | <input type="checkbox"/> <b>GOAL 14:</b> Life Below Water                     |
| <input type="checkbox"/> <b>GOAL 6:</b> Clean Water and Sanitation                       | <input type="checkbox"/> <b>GOAL 15:</b> Life on Land                         |
| <input type="checkbox"/> <b>GOAL 7:</b> Affordable and Clean Energy                      | <input type="checkbox"/> <b>GOAL 16:</b> Peace, Justice Strong Institutions   |
| <input type="checkbox"/> <b>GOAL 8:</b> Decent Work & Economic Growth                    | <input type="checkbox"/> <b>GOAL 17:</b> Partnerships to achieve the Goals    |
| <input checked="" type="checkbox"/> <b>GOAL 9:</b> Industry, Innovation & Infrastructure |   |

#### F. TRENDS IN TECHNOLOGY AND IN THE MARKET

If any, indicate the current or expected trends in the technology or in the market covered by the products of your TC/SC.

Refer to section A above.

#### G. SYSTEMS APPROACH ASPECTS (SEE DIRECTIVES PART 1 ANNEX SP)

Does your TC/SC have a need for a systems approach?

If so:

- Will the Systems work be in a single TC or in multiple TCs?
- Will a Standardization Evaluation Group (SEG), Systems Committee (SyC), or Systems Resource Group be required?
- Is your TC/SC work of relevance to ISO?
- Is or are there fora or consortia working in parallel to IEC? Is there a chance to integrate this work in your TC/SC?

This should not only be restricted to the customer/supplier relationships with other TC/SCs indicating types of co-operation (e.g. liaisons, joint working groups) but be of a more generic nature.

The table below illustrates various system approach aspects related to TC 72 (including relevance to ISO. It is not anticipated that an SEG or SyC will be required.

Component committees (IEC TC72 as customer)	IEC/SC 23J	Switches for appliances
	IEC/SC 32C	Miniature fuses
Other system	IEC/TC 61	Safety of household and similar electrical appliances
	IEC/SC 61C	Household appliances for refrigeration

Committees (IEC TC72 as supplier)	IEC/TC 61/MT23	Functional safety related aspects of electronic circuits, remote control of household appliances and insulation co-ordination
	IEC TC 105	Fuel cell technology
	ISO TC 109	Forced draught oil and gas burner
	IEC/TC 116	Safety of hand-held motor-operated electric tools
Other committees	SMB/SG3	Controls between Smart Grid and power consuming applications/local power generators
	IEC/TC 23/WG 12	Home and building electronic systems (HBES)
	IEC/SC 65A	Industrial-process measurement, control and automation: System aspects
	ISO/TC 161	Controls and protective devices for gas and/or oil

#### H. CONFORMITY ASSESSMENT

With reference to Clause 33 of Part 2 of the ISO/IEC directives, are all your publications in line with the requirements related to conformity assessment aspects?

Will the TC/SC publications be used for IEC Conformity Assessment Systems (IECEE, IECEx, IECQ, IECRE)?

Will any of your standards include test specifications, reproducible test requirements, and test methods?

Are there likely to be special conformity assessment requirements generated by any standards projects? If yes, list which projects.

TC 72 publications are in line with clause 6.7 of Part 2 of the IEC/ISO directives, and with the requirements related to conformity assessment aspects.

TC72 publications will be used in IECEE.

TC72 standards include test specifications, reproducible test requirements, and test methods.

It is not likely that there will be special conformity assessment requirements generated by TC72 standards projects.

#### I. 3-5 YEAR PROJECTED STRATEGIC OBJECTIVES, ACTIONS, TARGET DATES

STRATEGIC OBJECTIVES 3-5 YEARS	ACTIONS TO SUPPORT THE STRATEGIC OBJECTIVES	TARGET DATE(S) TO COMPLETE THE ACTIONS
Prepare amendments to the Part 1 and various Part 2s of the IEC 60730 series as market needs and technology innovations require	Review WG proposals and circulate DC's outlining structural changes	Ongoing
Prepare structural revision of Part 1 and subsequently align Part 2s of the IEC 60730 series with the Part 1	Resolve DC comments received and confirm resolution at plenary meeting	Completed (72/1178A/INF)
Prepare new standards for sensors and sensor technologies as they are used and operated in automatic electrical controls	Broadly communicate the work and objectives of this new area of standardization and invite technical experts to join WG12. Ultimately develop relevant requirements for sensors that are useful and practical for the industries they serve.	This is a new area of standardization and the work is ongoing at the present time.

Note: The progress on the actions should be reported in the RSMB.