

## Scope and Activities of IEC/TC 72 – Technical Committee for Automatic Electrical Controls

### A. Scope

To prepare standards related to inherent safety, to the operating characteristics where such are associated with functional safety, and to the testing of automatic electrical control devices used in appliances and other apparatus, electrical and non-electrical, such as that for central heating, air conditioning, process heating, etc., including the following:

- a. Automatic electrical control devices, mechanically, electromechanically, electrically or electronically operated, responsive to or controlling parameters such as temperature, pressure, passage of time, humidity, light, electrostatic effect, flow or liquid level.
- b. 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 be separate from the motor.
- c. Non-automatic control devices when such are associated with automatic control devices.

### B. Recent Work

- a. Implementation of the principles and appropriate measures of 61508 series for controls using software
- b. Introduction of requirements for fault detection as a result of software and related faults/errors in controls used in Home and Building Electronic Systems and in remotely controlled appliances and controls.
- c. Implementation of IEC 61000 standard series requirements into IEC 60730-1 concerning immunity to electromagnetic compatibility (EMC).
- d. Implemented safety and protective extra low voltage (SELV and PELV) requirements based on IEC 61140 into IEC 60730-1.
- e. Development of thermistor requirements as Annex J of IEC 60730-1.

### C. Work program

- a. Updating all of the part 2 standards to Amendment 1 to IEC 60730-1 Ed 4 (2011) including the elimination of “in some countries” clauses and consideration of notes within the standards.
- b. Placing greater emphasis on the use of web conferencing and similar communications and where possible reducing the need for face-to-face meetings.

### D. Future work

Future work of TC 72 will include:

- a. Preparing amendments to the Part 1 and various Part 2s of the IEC 60730 series as market needs require
- b. Responding to proposals arising from the implementation of IEC 60730-1 standards around the world
- c. Considering environmental issues and their implementation into the IEC 60730 series
- d. Considering IEC/ISO Guides and their implementation into the IEC 60730 series
- e. Considering safety requirements for interfaces to be connected to the telecommunications network and other bus systems
- f. Developing standards to include controls used in industrial environments to recognize that IEC 60730 has been and is being used as a standard for many industrial controls

### E. Memberships

P-Membership (Participating): 16 members: BE, CA, CN, CZ, DK, FI, FR, DE, IT, JP, NL, RU, ES, CH, GB, US.

O-Membership (Observing): 17 members: AU, AT, BG, HR, GR, HU, IN, KR, NO, NZ, PL, RO, SE, SG, SK, UA, ZA.

### D. Liaisons:

IEC/TC 23J, IEC/TC 32C, IEC/TC 61, IEC/SC 61C, IEC/TC 61/MT23, IEC/SC 65A, ISO/TC 161