

भारतीय मानक ब्यूरो
(केंद्रीय मुहर विभाग III)

हमारा संदर्भ : सी एम डी- III/16 : आई एस/ आई ई सी 60730-2-9

03 08 2018

विषय : आई एस/ आई ई सी 60730-2-9: 2011 के अनुपालन हेतु एस आई टी ।

इसे उपरोक्त विषय का संदर्भ प्राप्त है ।

सक्षम प्राधिकारी ने उपरोक्त एस आई टी को अनुमोदित कर दिया है ।

सभी क्षेत्रीय और शाखा कार्यालयों से अनुरोध है की उपरोक्त एस आई टी का अनुपालन सुनिश्चित करें ।

औरोस्मिता कविराज
वैज्ञानिक बी (सी एम डी-III)

प्रमुख (सी एम डी-III)

सभी क्षेत्रीय/शाखा कार्यालय

आई टी एस विभाग – बीआईएस इंटरनेट पर डालने हेतू

BUREAU OF INDIAN STANDARDS

(Central Marks Department-III)

Our Ref: CMD-III/16 : IS/IEC 60730-2-9

03 08 2018

Subject: SIT for implementation of IS/IEC/IEC 60730-2-9: 2011, “Automatic Electrical Controls for Household and Similar Use- Part 2 Particular Requirements- Section 9 Temperature Sensing Controls”

This has reference to the subject mentioned above.

The Competent Authority has approved the SIT for implementation of IS/IEC 60730-2-9: 2011.

All ROs/BOs are requested to ensure the implementation of the above SIT.

**Aurosmita Kabiraj
Sc-B (CMD-III)**

Head (CMD-III)

Circulated to: All ROs/BOs

Copy to: ITS – for hosting on Intranet please

SCHEME OF INSPECTION AND TESTING
for certification of
Automatic Electrical Controls for Household and Similar Use
Part 2 Particular Requirements - Section 9 Temperature Sensing Controls
according to IS/IEC 60730-2-9 : 2011

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare a calibration plan for the test equipment.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. LABELLING AND MARKING – As per the requirements of Cl. 7 of IS/IEC 60730-1 & IS/IEC 60730-2-9. Each automatic temperature sensing electrical control may also be marked with the BIS Standard Mark.

4. CONTROL UNIT – Automatic temperature sensing electrical controls of the same type and design manufactured in a day shall constitute a control unit.

5. LEVELS OF CONTROL - The tests as indicated in column 1 of [Table 1](#) and the levels of control in column 3 of [Table 1](#), shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

6. REJECTIONS – Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

IS/IEC 60730-2-9: 2011
Automatic Electrical Controls for Household and Similar Use
Part 2 Particular Requirements - Section 9 Temperature Sensing Controls
TABLE 1 LEVELS OF CONTROL
(Clause 6 of the Scheme of Testing and Inspection)

(1)				(2)	(3)		
TEST DETAILS				TEST EQUIPMENT REQUIREMENT	LEVELS OF CONTROL		
Clause	Requirement	TEST METHODS		R: required (or) S: Sub-contracting permitted	No. of Samples	Frequency	Remarks
		Clause	Reference				
8	Protection against electric shock	8	IS/IEC 60730-2-9 IS/IEC 60730-0	R	Each unit		
9	Provision for protective earthing	9	-do-	R	Each unit		
10	Terminals & terminations	10	-do-	R	Each unit		
11	Constructional Requirements	11	-do-	R	Each unit		
12	Moisture and Dust Resistance	12	-do-	S	#	Once in 6 months	
13	Electric Strength and Insulation Resistance	13	-do-	R	Three	Each control unit	
14	Heating	14	-do-	S	#	Once in 6 months	
15	Manufacturing Deviation and Drift	15	-do-	S	#	Once in 6 months	

16	Environmental Stress	16	-do-	S	#	Once in a year	
17	Endurance	17	-do-	S	#		
18	Mechanical Strength	18	-do-	S	#	Once in 6 months	
19	Threaded Parts and connections	19	-do-	S	#	Once in a year	
20	Creepage distances, Clearances, and distances through solid insulation	20	-do-	S	#		
21	Fire hazard testing	21	-do-	S	#	Once in 5 years	
22	Resistance to corrosion	22	-do-	S	#		
23	Electromagnetic Compatibility (EMC) requirements - emission	23	-do-	S	#		
24	Components	24	-do-	S	#		No further tests required if accompanied with Test Certificate or ISI marked.
25	Normal Operation	25	-do-	R	Each unit		
26	Electromagnetic Compatibility (EMC) requirements - immunity	26	-do-	S	#	Once in 5 years	
27	Abnormal Operation	27	-do-	S	#	Once in 6 months	

Number of samples shall be in accordance with Cl. 4.2 of IS/IEC 60730-2-9 & IS/IEC 60730-0

Note-1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.