



SLOVENSKI STANDARD
SIST EN 50491-2:2011/A1:2015
01-junij-2015

Splošne zahteve za stanovanjske in stavbne elektronske sisteme (HBES) in sisteme za avtomatizacijo in krmiljenje stavb (BACS) - 2. del: Okoljski pogoji - Dopolnilo A1

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) -- Part 2: Environmental conditions

Allgemeine Anforderungen an die Elektrische Systemtechnik für Heim und Gebäude (ESHG) und an Systeme der Gebäudeautomation (GA) -- Teil 2: Umgebungsbedingungen

Exigences générales pour systèmes électroniques pour les foyers domestiques et les bâtiments (HBES) et pour systèmes de gestion technique du bâtiment (SGTB) -- Partie 2: Exigences d'environnement

Ta slovenski standard je istoveten z: EN 50491-2:2010/A1:2015

ICS:

97.120	Avtomatske krmilne naprave za dom	Automatic controls for household use
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SIST EN 50491-2:2011/A1:2015 **en,de**

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EUROPEAN STANDARD

EN 50491-2:2010/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2015

ICS 97.120

English Version

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 2: Environmental conditions

Exigences générales pour systèmes électroniques pour les foyers domestiques et les bâtiments (HBES) et pour systèmes de gestion technique du bâtiment (SGTB) - Partie 2: Exigences d'environnement

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This amendment A1 modifies the European Standard EN 50491-2:2010; it was approved by CENELEC on 2015-02-23. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

This document (EN 50491-2:2010/A1:2015) has been prepared by CLC/TC 205 "Home and Building Electronic Systems (HBES)".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-02-23
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2016-02-23

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Replace Table 3 by the following new table:

Table 3 - Details of mechanical tests

Location		Storage ^a	Transport ^a	Weather protected		Non-weather protected	Ship	Portable and non-stationary
				Controlled	Uncontrolled			
Environment class		EN 60721-3-1 1M2	EN 60721-3-2 2M2	EN 60721-3-3 3M1	EN 60721-3-3 3M2	EN 60721-3-4 4M2	EN 60721-3-6 6M2	EN 60721-3-7 7M2
Tests		Units						
Vibration	sinusoidal displacement ^d acceleration frequency range number of axes sweep cycles ^c	EN 60068-2-6 mm m/s ² Hz -- --	None 3,5	None (≤58,1 Hz): 0,075 (>58,1 Hz): 10 2-9 3 10	None (≤58,1 Hz): 0,075 (>58,1 Hz): 10 10-150 3 10	(≤58,1 Hz): 0,075 (>58,1 Hz): 10 10-150 3 10	(≤13,2 Hz); 1 (>13,2 Hz); 6,88 5-100 3 5	None
Vibration	random acceleration spectral density (ASD) slope frequent range	EN 60068-2-64 m ² /s ³ dB/oct Hz	None	None	None	None	None	See note ^b 1 0,5 -3 10-100-200-2k
Shock	Peak acceleration Duration Number of events (for each direction)	EN 60068-2-27 m/s ² ms number	None 150 11 3	None	None	None	None 300 6 100	400 6 4000
Free fall	Mass Fall height	EN 60068-2-31 kg m	None < 15 > 15 > 75 1,0 0,5 0,10	None	None	None	None	< 1 < 10 < 50 1,0 0,5 0,1

^a Tests on storage and transport conditions are aimed to verify the resistance of the packaging. The tests shall be carried once per package (which may be used for more than one product). During these tests the device is not in operation and is within transport packing. For all other tests, the device is in operation and unpackaged.

^b ASD 1 m²/s³ at (10-100) Hz, decreasing by 3 dB/octave to 0,5 m²/s³ at 200 Hz, then 0,5 m²/s³ at (200 - 2 000) Hz.

^c In alternative to the sweep, the critical frequency of each axis can be tested for at least 60 minutes.

^d Displacement of 35 mm is recommended to simulate more severe conditions in transport.