SLOVENSKI STANDARD
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Home and Building Electronic Systems (HBES) - Part 8: Conformity assessment of products

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Elektrische Systemtechnik für Heim und Gebäude (ESHG) -- Teil 8: Konformitätsbeurteilung von Produkten

Systèmes électroniques pour les foyers domestiques et les bâtiments (HBES) -- Partie 8: Evaluation de la conformité des produits

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

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CENELEC

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

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Foreword

This European Standard has been prepared by the Technical Committee CENELEC TC 205 ”Home and Building Electronic Systems" (HBES) in close relation with ELSECOM.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50090-8 on 2000-08-01.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2001-04-01

– latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2003-04-01

EN 50090-8 is part of the EN 50090 series of European Standards, which will comprise the following parts:

Part 1: Standardization structure

Part 2: System overview

Part 3: Aspects of application

Part 4: Transport layer and network layer

Part 5: Media and media dependent layers

Part 6: Interfaces

Part 7: System management

Part 8: Conformity assessment of products

Part 9: Installation requirements

Annexes designated "informative" are given for information only.
In this standard, annex A is informative.

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Introduction

This document identifies the rules and standards that are particularly applicable to HBES functionalities in products in order to enable harmonisation of testing and conformity assessment.

A product may comprise a single device or a combination of devices intended to be connected and supplied together.

1 Scope

This standard is relevant for all electronic products and systems (including their software) having home and/or building control functions. It is not restricted to products complying with the HBES standards.

Parts of devices and equipment not providing HBES functionality are not included. For such device parts the relevant product standards apply.

This standard defines the general conformity assessment requirements for the communication protocols.

This standard indicates those standards to be used for conformity assessment of HBES products and or systems.

The conformity assessment procedure provides requirements for all key elements of HBES, such as safety, including functional safety, EMC requirements and environment.

These requirements are given by reference to relevant standards, where available.

The assessment and testing of installed systems will be covered by EN 50090-9-2.

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed below. For dated references subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision of this European Standard. For undated references the latest edition of the publication referred to applies.

EN 50065-1	Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz -- Part 1: General requirements, frequency bands and electromagnetic disturbances
EN 50090-2-2	Home and Building Electronic Systems (HBES) Part 2-2: System overview - General technical requirements
EN 50090-9-2[1]	Home and Building Electronic Systems (HBES) Part 9-2: Installation requirements - Inspection and testing of HBES installations

3 Definitions

For the purpose of this standard, the following definitions apply:

3.1
home control system (hcs):
home network together with all the devices attached to it, including the rules for control, communication and management among application processes. Three classes of home control systems are defined

3.2 For other definitions, see also IEC Guide 110.

[1] In preparation.

4 Applicable standards

4.1 General

This clause lists, when they exist, the applicable standards in the various areas identified as being relevant to HBES products testing and conformity assessment.

4.2 Protocols

Protocols shall be tested in accordance with the test specification of the manufacturer and/or organisations, at the choice of the manufacturer/organisations, if available.

Standardised requirements for test specifications for protocols are under consideration.

NOTE 1 There are no European standards covering this issue at the moment. A particular conformity assessment scheme may be imposed by the owner of a given protocol, for the use of this protocol. It is otherwise up to the manufacturer to decide whether the implementation of the protocol specification he has chosen should be the object of a second or third party certification, or none.

NOTE 2 The protocols used are published as CENELEC Technical Reports R205-007 to R205-011 and as ENV 13154-2.

4.3 Electrical safety

The requirements and tests as described in subclause 5.2 of EN 50090-2-2 shall be applied to the HBES products.

4.4 Electromagnetic compatibility (EMC)

The series of requirements and tests as described in clause 7 of EN 50090-2-2 shall be applied to the HBES products and system elements.

For products based on power line communication, EN 50065-1 shall be applied in addition to EN 50090-2-2.

4.5 Environment

The series of requirements and tests as described in clause 6 of EN 50090-2-2 shall be applied to the HBES products.

4.6 Functional safety

The requirements and tests as described in subclause 5.3 of EN 50090-2-2 shall be applied to the HBES products.

NOTE Further guidance is included in CENELEC Technical Report R205-012, which should be taken into consideration.

Annex A (informative)

Bibliography

IEC Guide 110	Home control systems – Guidelines relating to safety
ISO/IEC Guide 2:1991	General Terms and their definitions concerning Standardization and related activities
ISO/IEC 9646 (7 parts)	Open Systems Interconnection – Conformance Testing Methodology and Framework
ENV 13154-2:1998	Data Communication for HVAC Application Field Net - Part 2: Protocols
EN 45001	General criteria for the operation of testing laboratories
EN 45011	General criteria for certification bodies operating product certification
ISO/IEC publication, 1992	Certification and Related activities - Assessment and verification of conformity to standards and technical specifications.
EN ISO 9001	Quality systems. Model for quality assurance in design, development, production, installation and servicing.
EN ISO 9002	Quality systems. Model for quality assurance in production, installation and servicing.
EN ISO 9003	Quality systems. Model for quality assurance in final inspection and test.
R205-007	Home and Building electronic systems (HBES) Technical Report 7: Aspects of application – Application Layer
R205-008	Home and Building electronic systems (HBES) Technical Report 8: Transport Layer and Network Layer, Class 1
R205-009	Home and Building electronic systems (HBES) Technical Report 9: Media and media dependent layers, Network based on Twisted Pair, Class 1
R205-010	Home and Building electronic systems (HBES) Technical Report 10: Interfaces – Medium Interface, Twisted Pair, Class 1
R205-011	Home and Building electronic systems (HBES) Technical Report 11: Management
R205-012	Home and Building electronic systems (HBES) Technical Report 12: Guidelines on requirements for Functional Safety of products intended to be integrated in a home control system

NOTE The CENELEC Technical Reports R205-007 to -011 describe application layer, transport and network layer, physical layer for twisted pair class 1, medium interfaces including mechanical, functional and electrical characteristics, management specifications of existing systems BatiBUS, EIB, EHS