SLOVENSKI STANDARD
oSIST prEN 13321-1:2020

01-maj-2020

Odprta izmenjava podatkov v avtomatizaciji stavb, regulaciji in upravljanju stavb - Elektronski sistemi za stanovanja in stavbe - 1. del: Zahteve za proizvode in sisteme

Open data communication in building automation, controls and building management - Home and building electronic system - Part 1: Product and system requirements

Offene Datenkommunikation für die Gebäudeautomation und Gebäudemanagement - Elektrische Systemtechnik für Heim und Gebäude - Teil 1: Produkt- und Systemanforderungen

Réseau ouvert de communication de données pour l'automatisation, la régulation et la gestion technique du bâtiment - Systèmes électroniques pour la maison et le bâtiment - Partie 1: Spécification des produits et des systèmes

Ta slovenski standard je istoveten z: **prEN 13321-1**

ICS:

35.240.67	Uporabniške rešitve IT v gradbeništvu	IT applications in building and construction industry
97.120	Avtomatske krmilne naprave za dom	Automatic controls for household use

oSIST prEN 13321-1:2020 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
prEN 13321-1

March 2020

ICS 35.240.67; 97.120

Will supersede EN 13321-1:2012

English Version

Open data communication in building automation, controls and building management - Home and building electronic system - Part 1: Product and system requirements

Réseau ouvert de communication de données pour l'automatisation, la régulation et la gestion technique du bâtiment - Systèmes électroniques pour la maison et le bâtiment - Partie 1: Spécification des produits et des systèmes

Offene Datenkommunikation für die Gebäudeautomation und Gebäudemanagement - Elektrische Systemtechnik für Heim und Gebäude - Teil 1: Produkt- und Systemanforderungen

This draft European Standard is submitted to CEN members for parallel enquiry. It has been drawn up by the Technical Committee CEN/TC 247.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. prEN 13321-1:2020 E

Contents

Page

European foreword

This document (prEN 13321-1:2020) has been prepared by Technical Committee CEN/TC 247 “Building automation, controls and building management”, the secretariat of which is held by SNV.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13321-1:2012.

Compared to the previous version (EN 13321-1:2012), the following changes have been made:

a) Clause 2 “Normative references” has been edited;

b) references to the EN 50090 series have been updated;

c) the new EN 50491 series has been added to the references;

d) the withdrawn EN 50090-2-2 standard has been deleted;

e) all previous Annexes have been deleted.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

Introduction

The permanent objective of CENELEC/TC 205 is to prepare standards for all aspects of Home and Building Electronic Systems (HBES) in relation to the Information Society. Such HBES standards ensure the integration of a wide spectrum of control applications and the control and management aspects of other applications in and around homes and buildings, including the gateways to different transmission media and public networks. Moreover, they take all matters of EMC and electrical and functional safety into account. Hence, they are the pre-condition that conforming products interwork and are installer friendly to facilitate the system designers' and installers' task of providing the necessary networks according to their costumers service needs.

Extending these standardized Home and Building Electronic Systems (HBES) requirements to Building Automation and Control System Application and Building Management (BACS) generates important synergies in functionality and further enhances the economy of scale in this growing, open multivendor market of interoperable BACS products.

This document is intended for use by all involved in design, manufacture, engineering, installation and commissioning activities.

Moreover, and in line with the EU's co-regulatory view of European standardization, this document supports the European objectives and helps users comply with important EU Directives such as the Construction Products Regulation and the Energy Performance of Buildings Directive.

Aspects such as environmental conditions/external influences, electrical safety, EMC, etc. also used to be covered by EN 50090-2-2, which is superseded by the now available EN 50491 series. The latter European Standards series was jointly developed by CENELEC/TC 205 and CEN/TC 247 and also includes aspects like functional safety in normal use. The EN 50491 series applies, together with the relevant product standard for devices, if applicable.

The European Committee for Standardization (CEN) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents in the referenced documents.

CEN/TC 247, "Building Automation, Controls and Building Management", in collaboration with CENELEC/TC 205 "Home and Building Electronic Systems (HBES)" and its co-operation partner KNX Association, has prepared this document to reference the relevant parts of EN 50090 series. Furthermore, it is also a CEN/TC 247 specification and intended to extend their area of application to Building, Automation and Control Systems (BACS). The patent rights concern mainly series EN 50090. Each part of EN 50090 concerned has patent right information in its Foreword, and for each part concerned, CCMC has received patent right declarations by KNX Association.

1 Scope

This document specifies, as for Home or Building Electronic Systems (HBES) for the domain of Building Automation and Control System Application and Building Management (BACS), common rules for a class of multi-application bus systems where the functions are decentralised and linked through a common communication process. This document sets the basic requirements for products and systems. The requirements may also apply to the distributed functions of any equipment connected in a home or building control system if no specific standard exists for this equipment or system.

Due to its reference to the EN 50090 series, this document sets requirements for the BACS area in relation to Architecture and Hardware and Application and Communication of systems based on HBES amongst other areas, and specifies the basic requirements for interoperability (between products and systems).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50090 (all parts), *Home and Building Electronic Systems (HBES)*

EN 63044-1:2017, *Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 1: General requirements*

EN 50491-2, *General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 2: Environmental conditions*

EN IEC 63044-3, *General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) — Part 3: Electrical safety requirements*

EN 50491-4-1, *General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 4-1: General functional safety requirements for products intended to be integrated in Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS)*

EN 50491-5-1, *General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 5-1: EMC requirements, conditions and test set-up*

EN 50491-5-2, *General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment*

EN 50491-5-3, *General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 5-3: EMC requirements for HBES/BACS used in industry environment*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/