

SLOVENSKI STANDARD SIST EN ISO 16484-5:2008

01-junij-2008

Nadomešča:

SIST EN ISO 16484-5:2004

Avtomatizacija stavb in sistemi za regulacijo - 5. del: Protokol izmenjave podatkov (ISO 16484-5:2007)

Building automation and control systems - Part 5: Data communication protocol (ISO 16484-5:2007)

Systeme der Gebäudeautomation - Teil 5 Datenkommunikationsprotokoll (ISO 16484-5:2007) (standards.iteh.ai)

Systemes d'automatisation et de gestion technique du bâtiment - Partie 5: Protocole de communication de données (ISO 46484-5:2007) sist/a42a5b0a-8c15-4fd6-b041ec687d428acb/sist-en-iso-16484-5-2008

Ta slovenski standard je istoveten z: EN ISO 16484-5:2008

ICS:

35.240.99 Uporabniške rešitve IT na IT applications in other fields

drugih področjih

Avtomatske krmilne naprave Automatic controls for 97.120

za dom

household use

SIST EN ISO 16484-5:2008

en

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SIST EN ISO 16484-5:2008

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 16484-5

February 2008

ICS 91.040.01; 35.240.99

Supersedes EN ISO 16484-5:2003

English Version

Building automation and control systems - Part 5: Data communication protocol (ISO 16484-5:2007)

Systèmes d'automatisation et de gestion technique du bâtiment - Partie 5: Protocole de communication de données (ISO 16484-5:2007) Systeme der Gebäudeautomation - Teil 5: Datenkommunikationsprotokoll (ISO 16484-5:2007)

This European Standard was approved by CEN on 14 January 2008.

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

This European Standard exists 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 Management Centre has the same status as the official versions.

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

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 16484-5:2008 (E)

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EN ISO 16484-5:2008 (E)

Foreword

The text of ISO 16484-5:2007 has been prepared by Technical Committee ISO/TC 205 "Building environment design" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 16484-5:2008 by Technical Committee CEN/TC 247 "Building Automation, Controls and Building Management" the secretariat of which is held by SNV.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2008, and conflicting national standards shall be withdrawn at the latest by August 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 16484-5:2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom. ARD PREVIEW

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Endorsement notice

The text of ISO 16484-5:2007 has been approved by 2CEN as a EN ISO 16484-5:2008 without any modification. https://standards.iteh.ai/catalog/standards/sist/a42a5b0a-8c15-4fd6-b041-

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INTERNATIONAL STANDARD

ISO 16484-5

Second edition 2007-03-15

Building automation and control systems —

Part 5: **Data communication protocol**

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 16484-5 was prepared by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) (as ANSI/ASHRAE 135-2004) and was adopted without modifications by Technical Committee ISO/TC 205, *Building environment design* DARD PREVIEW

This second edition cancels and replaces the first edition (ISO 16484-5:2003), which has been technically revised, as detailed in the enclosed ANSI/ASHRAE publication, pages 598 to 601.

ISO 16484 consists of the following parts: under the general title Building automation and control systems:

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- Part 1: Overview and definitions 87d428acb/sist-en-iso-16484-5-2008
- Part 2: Hardware
- Part 3: Functions
- Part 5: Data communication protocol
- Part 6: Data communication conformance testing

Applications and project implementation are to form the subjects of future parts 4 and 7.

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Building automation and control systems —

Part 5:

Data communication protocol

1 Scope

This part of ISO 16484 defines data communication services and protocols for computer equipment used for monitoring and control of heating, ventilation, air-conditioning and refrigeration (HVAC&R) and other building systems. It defines, in addition, an abstract, object-oriented representation of information communicated between such equipment, thereby facilitating the application and use of digital control technology in buildings. The scope and field of application are furthermore detailed in Clause 2 of the enclosed ANSI/ASHRAE publication.

2 Requirements iTeh STANDARD PREVIEW

Requirements are the technical recommendations made in the following publication (reproduced on the following pages), which is adopted as an International Standard:

ANSI/ASHRAE 135-2004, A Data TCommunication 2 (Protocol for Building Automation and Control Networks https://standards.iteh.ai/catalog/standards/sist/a42a5b0a-8c15-4fd6-b041-ec687d428acb/sist-en-iso-16484-5-2008

The text on the back of the title page of the ANSI/ASHRAE standard and the policy statement on the last page are not relevant for the purposes of international standardization.

The following International Standards are cited in the text:

ISO/IEC 7498 (all parts), Information technology — Open Systems Interconnection — Basic Reference Model

ISO/TR 8509, Information processing systems — Open Systems Interconnection — Service conventions

ISO/IEC 8649, Information technology — Open Systems Interconnection — Service definition for the Association Control Service Element

ISO/IEC 8802-2, Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 2: Logical link control

ISO/IEC 8802-3, Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications

ISO/IEC 8824 (all parts), Information technology — Abstract Syntax Notation One (ASN.1)

ISO/IEC 8825 (all parts), Information technology — ASN.1 encoding rules

ISO/IEC 8859-1, Information technology — 8-bit single-byte coded graphic character sets — Part 1: Latin alphabet No. 1

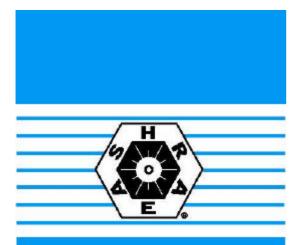
ISO/IEC 9545, Information technology — Open Systems Interconnection — Application Layer structure ISO/IEC 10646, Information technology — Universal Multiple-Octet Coded Character Set (UCS)

3 Revision of ANSI/ASHRAE 135

It has been agreed with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) that Technical Committee ISO/TC 205 will be consulted in the event of any revision or amendment of ANSI/ASHRAE 135. To this end, ANSI will act as a liaison body between ASHRAE and ISO.

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ANSI/ASHRAE Standard 135-2004

(Including ANSI/ASHRAE addenda listed in the History of Revisions)

ASHRAE® STANDARD

BACnet® — **A Data Communication Protocol for Building** Automation and **Control Networks**

Approved by the ASHRAE Standards Committee October 5, 2003; by the ASHRAE Board of Directors Jaunaru 29, 2004; and (Standards by the American National Standards Institute February 25, 2004 See History of Revisions" section for approval dates of addenda.

SIST EN ISO 1648 This standard is under continuous maintenance by a Standing https://standards.iteh.ai/catalog/standards/sStandards/Project-Committee-(SSPC) for which the Standards ec6876428acb/sist-en-iso-Committee has established a documented program for requiar publication of addenda or revisions, including procdedures for timely, documented, consensus action on requests for change to any part of the standard. The change submittal form, instructions and deadlines are given at the back of this document and may be obtained in electronic form from ASHRAE's Internet Home Page, http://www.ashrae.org, or in paper form from the Manager of Standards. The latest edition of an ASHRAE Standard and printed copies of a public review draft may be purchased from ASHRAE Customer Service, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305. E-mail: orders@ashrae.org. Fax: 404-321-5478. Telephone: 404-636-8400 (worldwide), or toll free 1-800-527-4723 (for orders in U.S. and Canada).

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