

SLOVENSKI STANDARD SIST EN ISO 52127-1:2021

01-april-2021

Nadomešča:

SIST EN 16947-1:2018

Energijske lastnosti stavb - Sistem upravljanja stavb - 1. del: Modul M10-12 (ISO 52127-1: 2021)

Energy performance of buildings - Building management system - Part 1: Module M10-12 (ISO 52127-1: 2021)

Energieeffizienz von Gebäuden - Gebäudemanagementsystem - Teil 1: Modul M10-12 (ISO 52127-1:2021)

(standards.iteh.ai)

Ta slovenski standard je istoveten z: EN ISO 52127-1:2021

ICS:

35.240.67	Uporabniške rešitve IT v gradbeništvu	IT applications in building and construction industry
91.120.10	Toplotna izolacija stavb	Thermal insulation of buildings
97.120	Avtomatske krmilne naprave za dom	Automatic controls for household use

SIST EN ISO 52127-1:2021 en,fr,de

SIST EN ISO 52127-1:2021

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 52127-1:2021

 $https://standards.iteh.ai/catalog/standards/sist/\overline{7efc5f}66-d576-48a9-b3b2-a4dbbb1e0b9e/sist-en-iso-52127-1-2021$

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 52127-1

February 2021

ICS 91.120.10

Supersedes EN 16947-1:2017

English Version

Energy performance of buildings - Building management system - Part 1: Module M10-12 (ISO 52127-1: 2021)

Performance énergétique des bâtiments - Système de gestion technique des bâtiments - Partie 1: Module M10-12 (ISO 52127-1: 2021)

Energieeffizienz von Gebäuden -Gebäudemanagementsystem - Teil 1: Modul M10-12 (ISO 52127-1:2021)

This European Standard was approved by CEN on 18 November 2020.

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-CENELEC 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-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.

a4dbbb1e0b9e/sist-en-iso-52127-1-2021



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

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

EN ISO 52127-1:2021 (E)

Contents	Page
	2
European foreword	3

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 52127-1:2021 https://standards.iteh.ai/catalog/standards/sist/7efc5f66-d576-48a9-b3b2-a4dbbb1e0b9e/sist-en-iso-52127-1-2021

European foreword

This document (EN ISO 52127-1:2021) has been prepared by Technical Committee ISO/TC 205 "Building environment design" in collaboration with 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 2021, and conflicting national standards shall be withdrawn at the latest by August 2021.

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

This document supersedes EN 16947-1:2017.

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, 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 the United Kingdom.

iTeh STANDARD PREVIEW Endorsement notice (standards.iteh.ai)

The text of ISO 52127-1:2021 has been approved by CEN as EN ISO 52127-1:2021 without any modification.

https://standards.iteh.ai/catalog/standards/sist/7efc5f66-d576-48a9-b3b2-a4dbbb1e0b9e/sist-en-iso-52127-1-2021

SIST EN ISO 52127-1:2021

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 52127-1:2021

 $https://standards.iteh.ai/catalog/standards/sist/\overline{7efc5f}66-d576-48a9-b3b2-a4dbbb1e0b9e/sist-en-iso-52127-1-2021$

SIST EN ISO 52127-1:2021

INTERNATIONAL STANDARD

ISO 52127-1

First edition 2021-02

Energy performance of buildings — Building management system —

Part 1: **Module M10-12**

Performance énergétique des bâtiments — Système de gestion iTeh STANDAR Partie 1: Module M10-12 (standards.iteh.ai)

SIST EN ISO 52127-1:2021 https://standards.iteh.ai/catalog/standards/sist/7efc5f66-d576-48a9-b3b2-a4dbbb1e0b9e/sist-en-iso-52127-1-2021



ISO 52127-1:2021(E)

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 52127-1:2021 https://standards.iteh.ai/catalog/standards/sist/7efc5f66-d576-48a9-b3b2-a4dbbb1e0b9e/sist-en-iso-52127-1-2021



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Coı	ntent	S	Page
Fore	word		v
Intro	oductio	n	vi
1	Scop	e	1
2	_	native references	
3		ns and definitions	
_		pols and subscripts	
4	4.1	Symbols	
	4.2	Subscripts	
5	Desc	ription of the methods	2
	5.1	Output of the method	2
	5.2	General description of the method(s)	
	5.3	Calculation time steps	
6		function 1 (management of setpoints)	
	6.1 6.2	Output dataInput data – source of data	
	6.3	Calculation procedure	
		6.3.1 Operating conditions calculation	5
		6.3.2 Energy calculation	6
7	BMS	6.3.2 Energy calculation function 2 (runtime management) PREVIEW	7
	7.1	Output data (standards.iteh.ai) Input data	7
	7.2	Input data (Standard S. Item. ar)	7
		7.2.1 Source of data	7
	7.3	7.2.1 Source of data 7.2.2 Operating conditions ISO 52127-12021 Calculation procedure i/catalog/standards/sist/7efc5f66-d576-48a9-b3b2-	 Ω
	7.5	7.3.1 Operating conditions calculation 27-1-2021	8
		7.3.2 Energy calculation	8
8	BMS	function 3 (sequencing of generators)	9
	8.1	Output data	9
	8.2	Input data	
		8.2.1 Source of data	
	8.3	8.2.2 Operating conditions Calculation procedure	
	0.5	8.3.1 Operating conditions calculation	
		8.3.2 Energy calculation	
9. 9.	BMS	function 4 (Local energy production and renewable energies)	11
	9.1	Output data	11
	9.2	Input data – source of data	12
	9.3	Calculation procedure – energy calculation	
10		function 5 (heat recovery/heat shifting)	12
	10.1	Output data	
	10.2	Input data	
		10.2.2 Operating conditions	
11	рмс	function 6 (smart grid)	
11	11.1	Output data	
	11.2	Input data	
12	Simn	olified input data correlations	13
	_	-	
13	Qual	ity control	13

iii

ISO 52127-1:2021(E)

14	Compliance check	13	3
Annex	A (informative) Short description of BMS main functions	14	1
Biblio	graphy	1:	5

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 52127-1:2021 https://standards.iteh.ai/catalog/standards/sist/7efc5f66-d576-48a9-b3b2-a4dbbb1e0b9e/sist-en-iso-52127-1-2021

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html. (Standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 205, *Building environment design*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 247, *Building Automation, Controls and Building Management*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 52127 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.