SLOVENSKI STANDARD
SIST EN 50131-1:2007/A3:2020

01-september-2020

Alarmni sistemi - Sistemi za javljanje vloma in ropa - 1. del: Sistemske zahteve - Dopolnilo A3

Alarm systems - Intrusion and hold-up systems - Part 1: System requirements

Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil 1: Systemanforderungen

Systèmes d'alarme - Systèmes d'alarme contre lintrusion et les hold-up - Partie 1: Exigences système

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Ta slovenski standard je istoveten z: EN 50131-1:2006/A3:2020

SIST EN 50131-1:2007/A3:2020
https://standards.iteh.ai/catalog/standards/sist/18698a77-5ced-4ecb-bee4-a40debe10edb/sist-en-50131-1-2007-a3-2020

ICS:

13.310	Varstvo pred kriminalom	Protection against crime
13.320	Alarmni in opozorilni sistemi	Alarm and warning systems

SIST EN 50131-1:2007/A3:2020 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

SIST EN 50131-1:2007/A3:2020

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 50131-1:2007/A3:2020
https://standards.iteh.ai/catalog/standards/sist/18698a77-5ced-4ecb-bee4-a40debe10edb/sist-en-50131-1-2007-a3-2020

SIST EN 50131-1:2007/A3:2020

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50131-1:2006/A3

June 2020

ICS 13.310

English Version

Alarm systems - Intrusion and hold-up systems - Part 1: System requirements

Systèmes d'alarme - Systèmes d'alarme contre l'intrusion et les hold-up - Partie 1: Exigences système

Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil 1: Systemanforderungen

This amendment A3 modifies the European Standard EN 50131-1:2006; it was approved by CENELEC on 2020-05-11. 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.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

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

SIST EN 50131-1:2007/A3:2020
https://standards.iteh.ai/catalog/standards/sist/18698a77-5ced-4ecb-bee4-a40debe10edb/sist-en-50131-1-2007-a3-2020

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

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

© 2020 CENELEC All rights of exploitation in any form and by any means reserved worldwide for CENELEC Members.

Ref. No. EN 50131-1:2006/A3:2020 E

SIST EN 50131-1:2007/A3:2020

Contents

Page

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 50131-1:2007/A3:2020
https://standards.iteh.ai/catalog/standards/sist/18798a77-5ced-4ecb-bee4-a40debe10edb/sist-en-50131-1-2007-a3-2020

SIST EN 50131-1:2007/A3:2020

European foreword

This document (EN 50131-1:2006/A3:2020) has been prepared by CLC/TC 79 "Alarm systems".

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)	2021-05-11
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2023-05-11

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

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 50131-1:2007/A3:2020
https://standards.iteh.ai/catalog/standards/sist/18698a77-5ced-4ecb-bee4-a40debe10edb/sist-en-50131-1-2007-a3-2020

SIST EN 50131-1:2007/A3:2020

1 Modifications to Clause 2, "Normative references"

Amend *the 3rd reference from "*EN 50136-1 2012" *to "*EN 50136-1 2012[1]".

Add *the footnote to page* "[1] As impacted by EN 50136-1:2012/A1:2018."

Delete *the 4th reference (to EN 60073 2002).*

Add *the following reference:*

"CLC/TS 50131-12 2016 *Alarm systems — Intrusion and hold-up systems — Part 12: Methods and requirements for setting and unsetting of Intruder Alarm Systems (IAS)".*

2 Modifications to 3.1, "Definitions"

In definition 3.1.13 (alternative power source) ***add****:*

"Note 1 to entry: The alternative power source is typically a battery.".

Replace *definition 3.1.16 (authorisation) by:*

"permission for a user to gain access to the various control functions of an I&HAS".

Replace *definition 3.1.55 by:*

"3.1.55

prime power source

power source used to support an I&HAS under normal operating conditions

Note 1 to entry: For types A and B PS, the prime power source is equivalent to an external power source (EPS) as defined in EN 50131-6:2017, 3.1.5; also see EN 50131-6:2017 Figure 2.

Note 2 to entry: For Type C PS the prime power source is derived from the PS storage device.".

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 50131-1:2007/A3:2020
https://standards.iteh.ai/catalog/standards/sist/18698a77-3ced-4ee8-bee4-a40debe10edb/sist-en-50131-1-2007-a3-2020

Add *the following term and definition:*

"principal prime power source

energy source capable of supporting the I&HAS for extended periods

Note 1 to entry: The principal prime power source may be derived from, e.g. the public electricity (mains) supply or an electricity supply independent of the public electricity supply.".

Delete *definition 3.1.61 (significant reduction of range).*

Replace *definition 3.1.67 by:*

"3.1.67

supplementary prime power source

energy source, independent of the PPPS, capable of supporting an I&HAS for extended periods, without affecting the standby period of the alternate power source

Note 1 to entry: The supplementary prime power source may be derived from an electricity supply independent of the public electricity supply, e.g. a generator.".

3 Modification to 3.2, "Abbreviations"

Add *the following abbreviation:*

PPPS - principal prime power source

SIST EN 50131-1:2007/A3:2020

4 Modification to 8.1.4, "Recognition of faults"

In Table 1, footnote [a]:

***Amend** the reference from* "EN 50136-1:2012" *to* "EN 50136-1:2012[1]".

5 Modification to 8.2, "Other functions"

***Delete** subclause 8.2.2 (Movement detector range reduction).*

6 Modifications to 8.3, "Operation"

*In 8.3 (Operation), **add** a 3rd paragraph:*

"The requirements of this clause apply irrespective of whether access to an I&HAS is performed directly at the CIE/ACE or remotely."

*In 8.3.1 (Access Levels), **Replace** NOTE by:*

"NOTE 1 Access level 4 applies when changing the operating programme software without having activated a tamper device on the CIE or ACE for example to provide cyber-security patches.".

***Add** below 4th paragraph (Access at level 4 shall be…):*

"NOTE 2 This standard does not give requirements for the duration for which the permission to access the system at access level 3 or 4 remains valid. Permitting remote access, particularly for extended periods, could result in contractual liabilities.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Access at levels 2, 3 & 4 may be achieved remotely providing authorisation, equivalent to that specified in Table 3, is achieved.".

SIST EN 50131-1:2007/A3:2020
https://standards.iteh.ai/catalog/standards/sist/18698a77-5ced-4ecb-bee4-a40debe10edb/sist-en-50131-1-2007-a3-2020

***Add** below 5th paragraph (Access at levels 2, 3 & 4 may be achieved …):*

"Communication systems used to support access for remote users shall comply with the requirements of Annex B.".

*In 8.3.2 (Authorisation), **add** below Table 3:*

"At security grades 2, 3 and 4, repeated invalid authorization attempts shall be detected and/or restricted.".

In 8.3.5 (Prevention of setting), in Table 4:

***Delete** row 4, movement detector range reduction.*

In 8.3.6 (Overriding prevention of setting), in Table 5:

***Delete** row 4, movement detector range reduction.*

In 8.3.9 (Restoring), in Table 6:

***Delete** row 8, significant reduction of range.*

7 Modification to 8.4, "Processing"

***Delete** 8.4.6 (Reduction of range signals or messages).*

SIST EN 50131-1:2007/A3:2020

8 Modifications to 8.5.1, "General"

Replace *4th paragraph by:*

"All mandatory indications required by this clause shall be located together in at least one CIE or ACE. Duplicate indications may be provided at other locations. When access to the I&HAS is performed remotely all mandatory indications shall be available to the remote user.".

Delete *Note 3 and Note 4.*

In Table 8, ***delete*** *row 13, Range reduction.*

9 Modification to 8.6.2, "ATS Notification"

Replace *2nd paragraph by:*

"For PS Types A and B, notification of prime power source faults may be delayed for a maximum of 1 h.".

10 Modification to 8.7.4, "Monitoring of substitution – Timing requirements"

Replace *Table 14 with:*

"Table 14 — Monitoring of substitution – Timing

Monitoring requirements	Grade 1	Grade 2	Grade 3	Grade 4
Substitution of I&HAS components – Maximum time before detection	**Op**	**Op**	**100 s [a]**	**10 s**
Key: Op = Optional.				
[a] When detection of substitution is included in grade of I&HAS.				

".

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 50131-1:2007/A3:2020
https://standards.iteh.ai/catalog/standards/sist/18698a77-5ced-4ecb-bee4-40bebd0eb1b3/sist-en-50131-1-2007-a3-2020

11 Modifications to 8.8, "Interconnections"

Replace *8.8.1 by:*

"8.8.1 General

Interconnections shall be suitable for the purpose and designed to provide a reliable means of communication between I&HAS components.

Interconnections shall be designed to minimise the possibility of signals or messages being delayed, modified, substituted or lost requirements for which are specified in the following clauses.

Communication shall be established between I&HAS components to verify that the communication, necessary for the correct functioning of I&HAS can be accomplished as and when required (e.g. when an alarm signal or message is generated).".

Replace *8.8.2 by:*

"8.8.2 Monitoring of interconnections

8.8.2.1 General

When interconnections are functioning normally, a signal or message shall be conveyed from the source to the destination component within 10 s.

Interconnections shall be monitored to

a) detect when availability fails to meet the requirements specified in 8.8.3 except when the requirements of 8.8.2.2 are met and the I&HAS is unset,

SIST EN 50131-1:2007/A3:2020

b) detect the delay, modification, substitution or loss of a signal or message as required in 8.8.5 below.

8.8.2.2 Monitoring of interconnections (Coerciveness Principle)

The requirements given in 8.8.3 and 8.8.4.1 need not be applied, when the I&HAS is unset, provided that all the following requirements are met:

i. The coerciveness principle as specified in CLC/TS 50131-12:2016, 4.2.3 and 4.3.4 shall be applied.

ii. Interconnections are sealed, i.e. to sealed opening contacts, sealed lock state contacts or sealed glass break detectors where the construction of the detector does not provide direct access to the internal components or connections e.g. a “potted” unit usually supplied with integral connecting cable.

iii. The interconnections are wired and signal-based.

iv. Each interconnection shall use a minimum of four cores.

v. It shall not be possible to visually differentiate the interconnection cores

vi. The interconnection shall be concealed within the wall or protected by enclosed cable containment (e.g. conduit)

NOTE A core is a single conductor with its own insulation.".

***Replace** 8.8.3 by:*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

"8.8.3 Availability of interconnections

Interconnections shall be available to provide a reliable means of conveying signals or messages.

When interconnections are shared with other applications the availability of the interconnection, to an I&HAS shall be sufficient to meet the requirements of this standard.

SIST EN 50131-1:2007/A3:2020
https://standards.iteh.ai/catalog/standards/sist/18698a77-5ced-4ecb-bee4-a40debe10edb/sist-en-50131-1-2007-a3-2020

Table 15 specifies the maximum permitted period for an interconnection to be unavailable. When the maximum permitted period is exceeded a tamper or fault signal or message shall be generated as specified in Table 19. The requirements specified in 8.8.3 do not apply to portable hold-up devices and portable ACE.

Table 15 — Maximum unavailability of interconnections

	Grade 1	Grade 2	Grade 3	Grade 4
Maximum permitted duration of unavailability	**100 s**	**100 s**	**100 s**	**10 s**
NOTE The requirement above is intended to establish if communication is possible by monitoring the communication media to ascertain if it is available to convey a signal or message. For example, monitoring may take the form of listening for jamming when RF techniques are employed or when an I&HAS shares a BUS system with other applications checking that another application has not taken permanent control of the BUS. The requirement applies to all types of interconnection including specific wired interconnections.				

NOTE It is acceptable to determine compliance with Table 15 by the use of periodic messages between I&HAS components.".