

Alarm systems - Access control systems for use in security applications - Part 1: System requirements

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 50133-1:2002 sisaldab Euroopa standardi EN 50133-1:1996 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.12.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 50133-1:2002 consists of the English text of the European standard EN 50133-1:1996.</p> <p>This document is endorsed on 18.12.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This standard specifies requirements for automated access control systems and components in and around buildings. It includes: - system architecture and general requirements of an access control system for security applications; - requirements for functions; - definition of the environmental and electromagnetic compatibility conditions; - requirements for communication of an access control with others, such as access point actuators and sensors, alarm system, etc. The standard does not apply to access point actuators and sensors.</p>	<p>Scope:</p> <p>This standard specifies requirements for automated access control systems and components in and around buildings. It includes: - system architecture and general requirements of an access control system for security applications; - requirements for functions; - definition of the environmental and electromagnetic compatibility conditions; - requirements for communication of an access control with others, such as access point actuators and sensors, alarm system, etc. The standard does not apply to access point actuators and sensors.</p>
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ICS 13.320

Võtmesõnad: access, alarm systems, buildings, classifications, control, definitions, designation, marking, performance evaluation, safety, tests

English version

**Alarm systems - Access control systems for use in security applications
Part 1: System requirements**

Systèmes d'alarme - Systèmes de
contrôle d'accès à usage dans les
applications de sécurité
Partie 1: Règles relatives aux systèmes

Alarmanlagen - Zutrittskontrollanlagen
für Sicherheitsanwendungen
Teil 1: Systemanforderungen

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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 was prepared by the Technical Committee CENELEC TC 79, Alarm systems.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50133-1 on 1995-11-28.

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) 1997-03-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1997-03-01

EN 50133 will consist of the following parts, under the general title "Alarm systems - Access control systems for use in security applications":

- Part 1 System requirements
 - Part 2 Recognition equipment
 - Part 3 Processing equipment - Display and programming equipment
 - Part 4 Access point actuator
 - Part 5 Communication
 - Part 6 (free)
 - Part 7 Application guidelines
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Introduction

This standard describes the general requirements for functionalities of an access control system for use in security applications.

It also describes general components environmental requirements.

When a part of an access control system (eg. access point interface) forms a part of an intruder alarm system, that part shall also fulfil the relevant requirements of alarm intrusion standards.

This standard addresses the security application for each access point. An access control system may consist of any number of access points.

Different levels of confidence in identification of users requesting access at an access point have resulted in the definition of recognition classes.

The diversities of the market needs for access control systems have led to take into account systems with or without logging or time logging.

Access point actuators as electric door openers, electronic locks, turnstiles and barriers are covered by CEN/TC33 standards.

1 Scope

This standard specifies requirements for automated access control systems and components in and around buildings.

It includes :

- system architecture and general requirements of an access control system for security applications,
- requirements for functions,
- definition of the environmental and electromagnetic compatibility conditions,
- requirements for communication of an access control with others, such as access point actuators and sensors, alarm system, etc...

The standard does not apply to access point actuators and sensors.

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 hereafter. 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. For undated references the latest edition of the publication referred to applies (including amendments).

EN 50081-1	1992	Electromagnetic compatibility - Generic emission standard - Part 1: Residential, commercial and light industry
EN 50081-2	1993	Electromagnetic compatibility - Generic emission standard - Part 2: Industrial environment
EN 50082	Series	Electromagnetic compatibility - Generic immunity standard
EN 55022	1994	Limits and methods of measurement of radio disturbance characteristics of information technology equipment (CISPR 22:1993)
EN 60950	1992	Safety of information technology equipment, including electrical business equipment (IEC 950:1991, modified)
IEC 68-1 + A1	1988 1992	Environmental testing - Part 1: General and guidance (harmonized as EN 60068-1:1994)
IEC 68-2-1	1990	Environmental testing - Part 2: Tests - Tests A: Cold (harmonized as EN 60068-2-1:1993)
IEC 68-2-2 + IEC 68-2-2A	1974 1976	Basic environmental testing procedures - Part 2: Tests - Tests B: Dry heat (harmonized as EN 60068-2-2:1993)

IEC 68-2-6	1982	Basic environmental testing procedures - Part 2: Tests - Test
+ A1	1983	Fc and guidance: Vibration (sinusoidal)
+ A2	1985	(harmonized as HD 323.2.6 S2:1988)
IEC 68-2-18	1989	Environmental testing - Part 2: Tests - Test R and guidance: Water
IEC 68-2-63	1991	Environmental testing - Part 2: Test methods - Test Eg: Impact, spring hammer (harmonized as EN 60068-2-63:1994)

3 Definitions

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

3.1 access: Action of entry into or exit from a security controlled area.

3.2 access control system: System which comprises all the constructional and organisational measures as well as those pertaining to the apparatus which are required for controlling access.

3.3 access control unit: Device which makes the decision to release one or several access points and manages the associated control sequence.

3.4 access group: A number of users sharing the same access level.

3.5 access grid: One or more security controlled areas allocated to an access level.

3.6 access level: User authority in terms of access to a specified access grid and, if applicable, associated time grid.

3.7 access point: The location at which access can be controlled by a door, turnstile or other secure barrier.

3.8 access point interface: Device which controls releasing and securing of an access point.

3.9 access point reader: Device used to extract recognition data from a token or biometric. The device can have an associated keypad when used with memorised information.

3.10 alert: Request for human intervention after the activation of an indicator.

3.11 annunciation: Presentation of the information to management or other systems.

3.12 apas: Access point actuators and sensors. Examples of actuators are electric door openers, electric locks, turnstiles and barriers. Examples of sensors are contacts, switches, pressure signalling devices and door switches.

3.13 apas closed: An apas is closed when the access point does not afford free passage.

3.14 apas open(ed): An apas is open(ed) when the access point affords free passage.