



SLOVENSKI STANDARD
SIST EN 50133-1:1999/A1:2003
01-september-2003

**Alarmni sistemi - Sistemi za nadzor dostopa za uporabo v aplikacijah varovanja -
1. del: Sistemske zahteve - Dodatek A1**

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

Alarmanlagen - Zutrittskontrollanlagen für Sicherungsanwendungen - Teil 1:
Systemanforderungen

Systèmes d'alarme - Systèmes de contrôle d'accès à usage dans les applications de
sécurité - Partie 1: Exigences système

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Ta slovenski standard je istoveten z: EN 50133-1:1996/A1:2002

ICS:

13.320 Alarmni in opozorilni sistemi Alarm and warning systems

SIST EN 50133-1:1999/A1:2003 en

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EUROPEAN STANDARD

EN 50133-1/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2002

ICS 13.320

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: Exigences système

Alarmanlagen - Zutrittskontrollanlagen
für Sicherheitsanwendungen
Teil 1: Systemanforderungen

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This amendment A1 modifies the European Standard EN 50133-1:1996; it was approved by CENELEC on 2002-09-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This amendment 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 amendment A1 to EN 50133-1:1996 on 2002-09-01.

This amendment describes environmental test requirements for components of an access control system.

The following dates were fixed:

- latest date by which the amendment has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2003-09-01
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2005-09-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex A is normative.

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2 Normative references

Replace the normative references with the following:

<u>Publication</u>	<u>Year</u>	<u>Title</u>
EN 50130-4 + A1	1995 1998	Alarm systems – Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder and social alarm systems
EN 50130-5	1998	Alarm systems – Part 5: Environmental test methods
EN 50133-2-1	2000	Alarm systems – Access control systems for use in security applications – Part 2-1: General requirements for components
EN 55022 + A1	1998 2000	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement (CISPR 22:1997, mod.)
EN 60065	1998	Audio, video and similar electronic apparatus – Safety requirements (IEC 60065:1998, mod.)
EN 60950	2000	Safety of information technology equipment (IEC 60950:1999 + corr. 2000, mod.)
EN 61000-6-1	2001	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments (IEC 61000-6-1:1997, mod.)
EN 61000-6-2	2001	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments (IEC 61000-6-2:1999, mod.)
EN 61000-6-3	2001	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:1996, mod.)
EN 61000-6-4	2001	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments (IEC 61000-6-4:1997, mod.)

5.4.1 Environmental test requirements

Replace the full subclause with the following:

The relevant European Standards EN 50130-5, covering the environmental tests for components, and EN 50130-4, covering the electromagnetic compatibility, shall be applied regarding the tests described in this subclause.

Details of equipment class (fixed, movable, portable) and environmental class (I, II, III, IV) shall be included in the manufacturer's documentation.

The tests, conditions and criteria of acceptance are described in the following subclauses:

5.4.1.1 Dry heat, operational test

The test is described in 8 of EN 50130-5.

5.4.1.2 Cold, operational test

The test is described in 10 of EN 50130-5.

5.4.1.3 Water, operational test

The test is described in 16 of EN 50130-5.

5.4.1.4 Impact, operational test

This test is applicable only to recognition equipment and access point interface.

The test is described in 20 of EN 50130-5.

5.4.1.5 Vibration, sinusoidal endurance test

The test is described in 23 of EN 50130-5.

5.4.1.6 Supply voltage variations, operational test

The test is described in 7 of EN 50130-4.

5.4.1.7 Supply voltage dips and interruptions, operational test

The test is described in 8 of EN 50130-4.

Add new subclause:

5.4.1.8 Environmental tests conditions and pass / fail criteria

In order to carry out the environmental tests, the following conditions shall be applied:

- a) the specimen shall be mounted in accordance with the instructions of the manufacturer in the normal condition of use;
- b) the impact operational test is only applicable for recognition equipment and access point interface. No impact shall be made on the display;
- c) a reduced functional test based on the relevant functional test (6.2.3 of EN 50133-1) shall be carried out before the conditioning;
- d) the component shall be in the operating condition during the conditioning, with the exception of the vibration sinusoidal endurance test;
- e) the output information and visual indications shall be monitored to detect any permanent variation during the conditioning;
- f) a functional test shall be carried out during the conditioning for dry heat and cold operational tests;
- g) for the final measurements, a reduced functional test (see 5.4.1.8 c)) shall be carried out after the conditioning.

NOTE A reduced functional test is a relevant number of tests selected among the full functional tests described in 6.2.3 of EN 50133-1 by the laboratory in charge of carrying the tests.

The pass / fail criteria are

- a) no mechanical damage shall occur which affects the operation or IP classification both inside and outside the container.
- b) no change in any status of the system shall occur during conditioning (no annunciation, no release of apas, etc...),
- c) the relevant reduced functional test shall provide the same result before, during and after the conditioning,
- d) variations of specified values are acceptable if the value stays within the specified range, including the tolerance.

5.4.2.1 Emission

Replace “EN 50081-1” with “EN 61000-6-3”.

Replace “EN 50081-2” with “EN 61000-6-4”.

5.4.2.2 Immunity

Replace "EN 50082 or" with "EN 61000-6-1 and EN 61000-6-2 or".

Add new annex A:

Annex A
(normative)

Special national conditions

The special national conditions described below apply to the following countries: Denmark, Finland, Norway and Sweden.

The special national conditions below shall be used:

- a) access point interface and recognition equipment shall operate correctly when exposed to environmental influences normally experienced out of doors when those access control system components are fully exposed to the weather;
- b) temperatures may be expected to vary between -40 °C and $+60\text{ °C}$ with average humidity of approximately 75 % non condensing. For 30 days per year, relative humidity can be expected to vary between 85 % and 95 % non condensing.

Consequently, the component shall be tested in accordance with the following conditions as described in EN 50130-5:

4.4.1.2 Cold, operational test

Environmental class IIIA: temperature = -40 °C , duration 16 hours.

Environmental class IVA: temperature = -40 °C , duration 16 hours.

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