



SLOVENSKI STANDARD

SIST EN 50136-1-4:1999

01-september-1999

Alarmni sistemi - Sistemi in oprema za prenos alarma - 1-4. del: Zahteve za sisteme z glasovno komunikacijo prek javnega komutiranega telefonskega omrežja (PSTN)

Alarm systems - Alarm transmission systems and equipment - Part 1-4: Requirements for systems with voice communicators using the public switched telephone network

Alarmanlagen - Alarmübertragungsanlagen und -einrichtungen Teil 1-4: Anforderungen an Anlagen mit automatischen Wähl- und Ansageanlagen für das öffentliche Fernsprechwahlnetz

Systèmes d'alarme - Systèmes et équipements de transmission d'alarme - Partie 1-4: Exigences relatives aux systèmes utilisant des transmetteurs vocaux sur le réseau téléphonique public auto-commuté

Ta slovenski standard je istoveten z: EN 50136-1-4:1998

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13.320	Alarmni in opozorilni sistemi	Alarm and warning systems
33.040.35	Telefonska omrežja	Telephone networks

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Descriptors: Warning systems, transmission, oral communication, telephone networks, public networks, specifications, performance evaluation, tests, compatibility

English version

**Alarm systems - Alarm transmission systems and equipment
Part 1-4: Requirements for systems with voice communicators
using the public switched telephone network**

Systèmes d'alarme - Systèmes et
équipements de transmission d'alarme
Partie 1-4: Exigences relatives aux
systèmes utilisant des transmetteurs
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Alarmanlagen
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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 European Standard 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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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 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 50136-1-4 on 1996-12-09.

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) 1998-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2002-08-01

EN 50136 consists of the following parts, under the general title "Alarm systems - Alarm transmission systems and equipment":

- Part 1-1 General requirements for alarm transmission systems
- Part 1-2 Requirements for systems using dedicated alarm paths
- Part 1-3 Requirements for systems with digital communicators using the public switched telephone network
- Part 1-4 Requirements for systems with voice communicators using the public switched telephone network
- Part 2-1 General requirements for alarm transmission equipment
- Part 2-2 Requirements for equipment used in systems using dedicated alarm paths
- Part 2-3 Requirements for equipment used in systems with digital communicators using the public switched telephone network
- Part 2-4 Requirements for equipment used in systems with voice communicators using the public switched telephone network
- Part 3 Alarm transmission protocols (in preparation)
- Part 4 Annunciation equipment (in preparation)
- Part 5 (free)
- Part 6 (free)
- Part 7 Application guidelines (in preparation)

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1 Scope

This standard specifies the requirements for voice communicator systems utilising the Public Switched Telephone Network which are in addition to those specified in EN 50136-1-1.

It covers switched connections providing event driven signalling between an alarm system and a remote centre. The information will be transmitted by using a stored voice message to one or more responsible persons and/or to an alarm receiving centre successively.

2 Object

The object of this standard is to specify the performance characteristics of voice communicator systems using the Public Switched Telephone Network to ensure their suitability for use with the compatibility with different types of alarm systems.

3 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).

Publication	Title
EN 50136-1-1	SIST EN 50136-1-4:1999 Alarm systems - Alarm transmission systems and equipment Part 1-1: General requirements for alarm transmission systems
ETS 300 001	Attachments to the Public Switched Telephone Network(PSTN); General technical requirements for equipment connected to an analogue subscriber interface in the PSTN

4 General considerations

4.1 Operation

In a voice communicator system the alarm transmission path is only established at the time an event requires to be transmitted.

The ability to establish a connection through the Public Switched Telephone Network (PSTN) will be dependent on the state of the network at the time the event occurs. To increase the probability of successful voice transmission the voice communicator will make several attempts either to call and report to the responsible person or to call and report to alternative recipients.

4.1.1 Type 1 systems

In Type 1 systems a call is established, the message transmitted one or more times and the call terminated, but no acknowledgement of the correct receipt of the voice message is provided.

4.1.2 Type 2 systems

In Type 2 systems a call is established, the message transmitted one or more times and the call terminated. The responsible person or alarm receiving centre can confirm the correct receipt of the message by making a call back to the supervised premise within a specified interval. If it is not received the sequence is repeated.

4.1.3 Type 3 systems

In Type 3 systems a facility is provided to allow the responsible person or alarm receiving centre to transmit an acknowledgement signal to the supervised premises and if this signal is not received for the supervised premises transceiver to close down and repeat its sequence.

4.2 Monitoring of the connection

As the alarm transmission path is only established temporarily for transmission of a message, continuous monitoring end to end of the alarm transmission path is not possible.

If the transmission path between the supervised premises and the first exchange of the PSTN is a telephone line and from the final exchange to the alarm receiving centre these lines can however be monitored. A degree of end to end monitoring may be achieved by the initiation of test transmissions at suitable intervals.

4.3 Other systems on a telephone line

Where the transmission path is a telephone line to the first exchange of the PSTN it may be shared with other systems meeting the requirements of ETS 300 001.

5 System requirements

Alarm transmission systems within the scope of this standard shall comply with the requirements in EN 50136-1-1.

In addition it shall meet the following requirements.

5.1 Telephone line

Where the transmission path is not exclusive to the alarm transmission system, the following requirement shall be met.

It shall not be possible to inhibit the dialling or to interfere with the transmission of the alarm by employing any other system sharing the same transmission path.

5.2 Power supply

Where the transceiver is separately housed and is not located adjacent to the control unit of the associated alarm system, the transceiver shall contain a standby battery equal to that of the associated alarm system plus sufficient extra capacity to operate the transceiver for at least two maximum duration sequences.

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5.3 Performance

The system shall be classified according to its ability to meet the performance requirements specified in EN 50136-1-1.

6 Verification of performance

The performance of the system shall be verified in accordance with EN 50136-1-1 with the following qualification.

All communicators shall be tested by sending a message or shall be programmed to routinely send messages not less frequently than once every 400 days.

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