



SLOVENSKI STANDARD

SIST EN 50136-1-3:1999

01-september-1999

Alarmni sistemi - Sistemi in oprema za prenos alarma - 1-3. del: Zahteve za sisteme z digitalno komunikacijo prek javnega komutiranega telefonskega omrežja (PSTN)

Alarm systems - Alarm transmission systems and equipment - Part 1-3: Requirements for systems with digital communicators using the public switched telephone network

Alarmanlagen - Alarmübertragungsanlagen und -einrichtungen Teil 1-3: Anforderungen an Anlagen mit automatischen Wähl- und Übertragungsanlagen für das öffentliche Fernsprechwahlnetz

Systèmes d'alarme - Systèmes et équipements de transmission d'alarme - Partie 1-3: Exigences pour les systèmes utilisant des transmetteurs numériques sur le réseau téléphonique public auto-commuté

Ta slovenski standard je istoveten z: EN 50136-1-3:1998

ICS:

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

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EUROPEAN STANDARD
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EN 50136-1-3

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Descriptors: Warning systems, transmission, digital technics, telephone networks, public networks, specifications, performance evaluation, tests, compatibility

English version

**Alarm systems - Alarm transmission systems and equipment
Part 1-3: Requirements for systems with digital communicators
using the public switched telephone network**

Systèmes d'alarme - Systèmes et
équipements de transmission d'alarme
Partie 1-3: Exigences pour les systèmes
utilisant des transmetteurs numériques
sur le réseau téléphonique public
auto-commuté

Alarmanlagen
Alarmübertragungsanlagen
und -einrichtungen
Teil 1-3: Anforderungen an Anlagen
mit automatischen Wähl und
übertragungsanlagen für das öffentliche
Fernsprechwahlnetz

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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.

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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 50136-1-3 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 digital 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 using digitized signals to automatic receiving centre transceivers at remote centres. A facility may be included to provide an audio channel.

The remote centre will normally be an alarm receiving centre but may be a remote centre with onward transmission using an alarm transmission system meeting the requirements of EN 50136-1-2.

2 Object

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

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).

<u>Publication</u>	<u>Title</u>
EN 50136-1-1	Alarm systems - Alarm transmission systems and equipment Part 1-1: General requirements for alarm transmission systems
EN 50136-1-2	Part 1-2: Requirements for systems using dedicated alarm paths
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 digital 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 will be dependent on the state of the network at the time the event occurs. To increase the probability of successful data transmission the digital communicator will make several attempts either to dial and report to the initial alarm receiving centre or to dial and report to alternative alarm receiving centres.

Once the connection is established there is no restriction on the information which may be transmitted or on the techniques which may be employed to ensure integrity of transmission.

A facility may be provided for testing the system, including the programmed transceiver identity code and telephone number of the alarm receiving centre with or without involving the alarm receiving centre.

4.2 Monitoring of the connection

In a digital communicator system the alarm transmission path is only established temporarily for transmission of an event. Therefore continuous monitoring end to end of the alarm transmission path is not possible.

If the alarm transmission path is a telephone line between the supervised premises and the first exchange of the PSTN and from the final exchange to the alarm receiving centre these paths can however be monitored.

A degree of end to end monitoring may be achieved by the initiation of test transmissions at suitable intervals.

The transmission path between the supervised premises and the first exchange can be monitored to achieve a basic level of integrity.

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 Transmission path to first exchange of PSTN

5.1.1 From supervised premises to first exchange of PSTN

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

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

5.1.2 From final exchange of PSTN to alarm receiving centre

Where the transmission paths are telephone lines from a local exchange to the alarm receiving centre, these telephone lines shall be exclusively dedicated for this purpose and shall be monitored.

5.2 Equipment at alarm receiving centre

The number of incoming transmission paths shall be determined so that under the anticipated traffic load the probability of a receiving centre transceiver being available for an incoming alarm call is greater than 98 %, measured over a period of one hour during peak load as measured daily and registered over a three month period, except under fault, maintenance or exceptional operating conditions.

5.3 Power supply for the alarm system transceiver

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

5.4 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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