



# SLOVENSKI STANDARD

## SIST EN 50136-1-2:1999

01-september-1999

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### Alarmni sistemi - Sistemi in oprema za prenos alarma - 1-2. del: Zahteve za sisteme, ki uporabljajo namenske poti za prenos alarmov

Alarm systems - Alarm transmission systems and equipment - Part 1-2: Requirements for systems using dedicated alarm paths

Alarmanlagen - Alarmübertragungsanlagen und -einrichtungen - Teil 1-2: Anforderungen an Anlagen mit fest zugeordneten Alarmübertragungswegen

Systèmes d'alarme - Systèmes et équipements de transmission d'alarme - Partie 1-2: Exigences relatives aux systèmes utilisant des voies d'alarme dédiées

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Ta slovenski standard je istoveten z: EN 50136-1-2:1998

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#### **ICS:**

13.320 Alarmni in opozorilni sistemi Alarm and warning systems

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**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 50136-1-2**

January 1998

ICS 13.320

Descriptors: Warning systems, transmission, definitions, specifications, performance evaluation, tests, compatibility

English version

**Alarm systems - Alarm transmission systems and equipment  
Part 1-2: Requirements for systems using dedicated alarm paths**

Systèmes d'alarme - Systèmes et  
équipements de transmission d'alarme  
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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 50136-1-2 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 alarm transmission systems utilising dedicated alarm transmission paths which are additional to those specified in EN 50136-1-1.

The alarm transmission system may utilise wired links (e.g. DC or a modulated signal over a twisted pair cable), voice grade signalling links or data links and may include multiplexers or message processors. The standard is also applicable to alarm transmission systems in which signalling links are shared with other services. Such services include normal subscriber telephone line from the supervised premises to the local exchange, cable TV or power distribution networks, but is equally applicable to other systems.

## 2 Object

The object of this standard is to specify the performance characteristics of alarm transmission systems using dedicated alarm transmission paths to ensure their suitability for use with and 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). <https://standards.iteh.ai/catalog/standards/sist/2c547346-bf7b-4786-a8eb-e8e38e0be00a/sist-en-50136-1-2-1999>

<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

## 4 General considerations

### 4.1 Verification of transmission

The alarm transmission system should provide for the specific system appropriate means to verify the correct transmission of information.

### 4.2 Multiplexed systems

Where faults or deliberate interference on the transmission path from one alarm system cannot affect the performance of transmission paths from other alarm systems, the total number of transmission paths, which may be connected, will be limited by the system availability requirements.

Where faults or deliberate interference on one transmission path can affect the performance of the others and prevent them from meeting the requirements of this standard, the total number of transmission paths that may be connected will be limited by the application and the security requirements and should be given in the system specification.

#### 4.3 Shared signalling links using telephone lines

The alarm system transmission link is shared with a normal telephone line such that both speech and alarm system information can be transmitted over the telephone line at the same time. At the local telephone exchange the alarm system information is separated from the speech channel and is passed to an alarm receiving centre, or a monitoring centre either directly or via intermediate processors.

The line may be shared e.g. by the use of frequency or time division multiplexing techniques or by the use of the D channel of an ISDN line.

#### 4.4 Shared signalling links using cable TV distribution networks

The alarm system transmission link is shared with a cable TV distribution network such that both TV signals and alarm system information can be transmitted over the network at the same time. At some point in the distribution network the alarm system information is separated from the TV signals and is passed to an alarm receiving centre, or a monitoring centre either directly or via intermediate processors.

#### 4.5 Shared signalling links using power distribution systems

The alarm system transmission link is shared with the local power distribution system such that power and alarm system information can be transmitted over the network at the same time. At some point in the distribution system the alarm system information is separated from power lines and is passed to an alarm receiving centre, or a monitoring centre either directly or via intermediate processors.

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### 5 System requirements

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

In addition they shall meet the following requirements.

#### 5.1 General

The alarm transmission system shall be such that, except under alarm or fault conditions, a status signal is either transmitted from the supervised premises, continuously or on a regular basis, or is transmitted from the supervised premises as a result of regular interrogation by the remote centre in order to monitor the integrity of the alarm transmission system. The interrogation shall be of at least sufficient frequency to meet the fault reporting requirements for the appropriate class in table 3 of EN 50136-1-1.

An alarm or fault output containing information identifying which transmission paths are not available shall be given at the alarm receiving centre and/or at the monitoring centre when a fault in the alarm transmission system is detected.

No spurious alarm outputs shall occur when the alarm transmission system is restored to normal after a fault.

#### 5.2 Shared communication channel

In Multiplexed systems, where signals from a number of alarm systems share common equipment or lines, each of the alarm transmission paths shall comply with the requirements of this standard.

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### 5.3 Performance

The alarm transmission system shall be classified according to its ability to meet the performance requirements specified in tables 1, 2, 3 and 4 of EN 50136-1-1.

### 5.4 Signalling security

The alarm transmission system shall be classified regarding signalling security level as defined in EN 50136-1-1 subclause 6.5.

## 6 Verification of performance

The performance of the alarm transmission system shall be verified in accordance with clause 7 of EN 50136-1-1.

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