SLOVENSKI STANDARD
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Alarmni sistemi - Sistemi in oprema za prenos alarma - 2-2. del: Zahteve za opremo v sistemih, ki uporabljajo namenske poti za prenos alarmov

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

Alarmanlagen - Alarmübertragungsanlagen und -einrichtungen - Teil 2-2: Anforderungen an Einrichtungen für Anlagen mit fest zugeordneten Übertragungswegen

Systèmes d'alarme - Systèmes et équipements de transmission d'alarme - Partie 2-2: Exigences pour les équipements utilisés dans des systèmes utilisant des voies d'alarmes dédiées

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

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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 50136-2-2 on 1997-07-01.

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- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2002-08-01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 in addition to the requirements specified in EN 50136-2-1, the requirements for equipment used in alarm transmission systems utilising dedicated alarm transmission paths.

The alarm transmission system may utilise wired links (e.g. d.c. 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 equipment used in 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).

Publication	Title
EN 50136-2-1	Part 2-1: General requirements for alarm transmission equipment

4 General requirements

4.1 Shared communication path

The method of transmission used shall be such that use of the non alarm equipment connected to the alarm transmission path shall not prevent the alarm transmission system from meeting the performance requirements of this standard.

It shall not be possible to interfere with the alarm transmission system by employing any other approved equipment sharing the same communication path.

4.1.1 Shared signalling links using telephone lines

Transmitting and receiving equipment intended for direct connection to a network shall operate in accordance with the electrical conditions on that network without affecting its ability to meet this standard.

4.1.2 Shared signalling links using cable TV distribution networks

The transmitter and receiver equipment shall operate in accordance with normal **electrical** conditions employed on the network. The details of the degree of immunity or of the types of cable TV networks for which the equipment is suitable shall be stated by the manufacturer in the product specification.

4.1.3 Shared signalling links using power distribution systems

The transmitter and receiver equipment shall operate in accordance with normal electrical conditions expected on the network. The details of the degree of immunity or of the types of power distribution systems for which the equipment is suitable shall be stated by the manufacturer in the product specification.

4.2 Fault output

The supervised premises transceiver shall provide a local fault output.
If it is unable to properly transmit an alarm or fault condition within the appropriate fault reporting time, the output shall comply with the requirements of the supervised premises transceiver interface to the alarm system defined in EN 50136-2-1.

5 Equipment requirements

Alarm transmission equipment within the scope of this standard shall comply with the requirements of EN 50136-2-1.

6 Testing

Equipment shall be tested in accordance with the requirements of EN 50136-2-1 with the following requirement: equipment intended for connection to a signalling link shared with other services shall be tested to ensure the equipment continues to meet the basic functional test of EN 50136-2-1 clause 6.1.1 when the other services are in use.

6.1 Fault output

The alarm system transceiver shall generate a fault condition in accordance with the product specification and with clause 4.2 above. The fault output shall be checked to respond and to be in accordance with the requirements of EN 50136-2-1.