TECHNICAL SPECIFICATION **CLC/TS 50136-7**

SPECIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION January 2004

ICS 13.320

English version

Alarm systems – Alarm transmission systems and equipment Part 7: Application guidelines

Systèmes d'alarme – Systèmes et équipements de transmission d'alarme Partie 7: Guide d'application

Alarmanlagen – Alarmübertragungsanlagen und -einrichtungen Teil 7: Anwendungsregeln

This Technical Specification was approved by CENELEC on 2003-05-31.

CENELEC members are required to announce the existence of this TS in the same way as for an EN and to make the TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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

Ref. No. CLC/TS 50136-7:2004 E

Foreword

This Technical Specification was prepared by the Technical Committee CENELEC TC 79, Alarm systems.

The text of the draft was submitted to the formal vote and was approved by CENELEC as CLC/TS 50136-7 on 2003-05-31.

The following date was fixed:

- latest date by which the existence of the CLC/TS has to be announced at national level (doa) 2004-04-08

EN 50136 will consist 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 (Free)
- Part 4 [1)] Annunciation equipment used in alarm receiving centres
- Part 5 (Free)
- Part 6 (Free)
- Part 7 [1)] Application guidelines

1) This part is published as a Technical Specification.

Contents

Introduction

To come to a common understanding of the alarm transmission standards documents there is a need for application guidelines to support other TC 79 WG, other standardisation bodies, insurance companies and customers to require an appropriate performance of the alarm transmission system for a specific application.

Application knowledge and needs are not always available by the alarm transmission experts and therefore guidelines for alarm transmission should assist other experts to understand the alarm transmission standards and the performance of an alarm transmission system. This should help to make an appropriate specification based on the performance tables of the general standard, also including the economical aspects and consequences.

The alarm transmission standards applies to different applications (e.g. intrusion, fire, access control, CCTV,...). Therefore, this guideline should be read in conjunction with the standards relating to these applications when appropriate.

Several alarm transmission systems may be used by the providers of alarm transmission services, which implies that the level of services may vary, depending on the performance of each alarm transmission system.

1 Scope

This Technical Specification will give to the readers of the alarm transmission system standards appropriate guidance to define alarm transmission and annunciation equipment systems in line with the requirements of their specific applications.

2 Normative references

This Technical Specification 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 application guideline only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to apply (including amendments).

EN 54 series	Fire alarms
EN 50131 series	Alarm systems – Intrusion systems
EN 50131-1:1997	Part 1: General requirements
CLC/TS 50131-7	Part 7: Application guidelines
EN 50132 series	Alarm systems – CCTV surveillance systems for use in security applications
EN 50133 series	Alarm systems - Access control systems for use in security applications
EN 50134 series	Alarm systems – Social alarm systems
CLC/TS 50134-7	Part 7: Application guidelines
EN 50136-1-1	Alarm systems – Alarm transmission systems and equipment – Part 1-1: General requirements for alarm transmission systems
EN 50136-2-1	Part 2-1: General requirements for alarm transmission equipment
EN 50136-2-2	Part 2-2: Requirements for equipment used in systems using dedicated alarm paths
EN 50136-2-3	Part 2-3: Requirements for equipment used in systems with digital communicators using the public switched telephone network

EN 50136-2-4	Part 2-4: Requirements for equipment used in systems with voice communicators using the public switched telephone network
CLC/TS 50136-4	Alarm systems – Alarm transmission systems and equipment – Part 4: Annunciation equipment used in alarm receiving centres

3 Definitions

For the purposes of this Technical Specification, the definitions in EN 50136-1-1 apply.

4 Alarm transmission systems

4.1 General and technology specific requirement

Alarm transmission systems are a part of a total security solution. The selection of requirements for the alarm transmission system depends on the requirements of the specific application.

The alarm transmission standards parts EN 50136-1-1 and EN 50136-2-1 are the main documents. They provide requirements for all types of systems and equipment commonly in use.

For some specific technologies there are standards providing detailed additional requirements or interpretations or explanations for the application of the general requirements.

For technologies not covered by a specific standard document, the general documents EN 50136-1-1 and EN 50136-2-1 should apply.

4.2 Purpose of an alarm transmission system

The purpose of an alarm is always to initiate some kind of response, locally or remotely. The function of the alarm is in some cases twofold, to prevent something from occurring, e.g. burglary, and to respond when something occurs. The most common set-up is with an alarm equipment including detection of the expected incidents, an alarm transmission system, a monitoring centre and a response force, police, guards, fire brigade, medical assistance, etc.

The characteristics of each of these parts of the total preventive and responsive system should correspond to the nature of the threat, for which it provides protection:

- for a burglar alarm, tamper and manipulation protection are important characteristics: the higher the values or risks, the more important is also the availability of the system;
- for a fire alarm system the most important characteristics may be transmission time and availability, of course related to the values at risk).

Sufficient information should be provided through the alarm transmission system to enable appropriate intervention.

Examples of useful information are

- fault,
- set/unset (arm/disarm),
- alarm including type, location and also detector or zone,
- power failure/battery fault.