
Alarmni sistemi - Sistemi za javljanje vloma in ropa - 5-4. del: Preskušanje združljivosti komponent sistemov za javljanje vloma in ropa v nadzorovanih prostorih

Alarm systems - Intrusion and hold-up systems - Part 5-4: System compatibility testing for I&HAS equipments located in supervised premises

Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil 5-4: Prüfbeschreibungen zur Systemkompatibilität für in Gebäuden installierte EMA/UMA-Komponenten

Systèmes d'alarme - Systèmes d'alarme contre l'intrusion et les hold-up - Partie 5-4: Essai de compatibilité système pour les équipements contre l'intrusion et les hold-up situés dans des locaux surveillés

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TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
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CLC/TS 50131-5-4

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ICS 13.320

English version

**Alarm systems -
Intrusion and hold-up systems -
Part 5-4: System compatibility testing for I&HAS equipments located in
supervised premises**

Systèmes d'alarme -
Systèmes d'alarme contre l'intrusion et les
hold-up -
Partie 5-4: Essai de compatibilité système
pour les équipements contre l'intrusion et
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This Technical Specification was approved by CENELEC on 2012-05-28.

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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 document (CLC/TS 50131-5-4:2012) has been prepared by CLC/TC 79 "Alarm systems".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

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Introduction

The components forming an intruder and hold-up alarm system (I&HAS) are each designed to contribute to a particular aspect of the overall functionality of the complete system. The system gains its full functionality only when all components are correctly interconnected and then only if the components intercommunicate effectively.

For the purposes of this document, the control and indicating equipment (CIE) is the focal point of the system and all other components are required to communicate effectively with the CIE. Communication does not only require the consideration of communication protocols; other aspects such as power supply requirements and data transmission characteristics should also be considered.

A framework is therefore presented to permit a formal assessment of the compatibility of I&HAS components, which may be conducted by a manufacturer, potential customer or independent authority.

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1 Scope

This Technical Specification details methods and tests for compatibility assessment of system components, including a CIE, intended to be used in intruder and hold up alarm systems complying with EN 50131-1.

This includes:

- I&HAS components for which EN 50131 series product standards exist;
- I&HAS components for which no EN 50131 series product standards currently exist;
- I&HAS components that include additional functionality outside the scope of EN 50131-1 or shared with another system;
- non-I&HAS components used to supplement the functionality of the system, but which are not required by EN 50131-1 (e.g. printer).

The assessment and testing covered by this Technical Specification focuses on verifying the functionality of each event type from source to destination between components. It is not intended to repeat specific tests contained within the relevant product standard, but does include the verification that there are no adverse affects on mandatory EN 50131 functions as a result of the intended use of the components.

This Technical Specification does not detail the manner in which an I&HAS is designed, installed and used in any particular application.

This Technical Specification recognizes that it is not practical to assess the compatibility of components in all possible configurations and conditions. Methods of assessment are specified to reach an acceptable degree of confidence within pre-determined configurations and conditions.

This Technical Specification is applicable to components connected to CIE whether the components are interconnected by electrical wires, wire-free links or other means.

The test programme developed to assess compatibility may be undertaken as part of a programme to assess the performance of a component according to a part of EN 50131.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50131-1:2006, *Alarm systems — Intrusion and hold-up systems — Part 1: System requirements*

EN 50131-3:2009, *Alarm systems — Intrusion and hold-up systems — Part 3: Control and indicating equipment*

CLC/TS 50398, *Alarm systems — Combined and integrated alarm systems — General requirements*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 50131-1:2006 and the following apply.

3.1.1

compatibility

ability of a component to operate as intended in the specified system configuration with the specified CIE

3.1.2

compliance or compliant

demonstrated conformity with requirements of applicable standards and relevant regulatory requirements

3.1.3

component type 1

device configured as part of an I&HAS performing a function that is within the scope of EN 50131-1

Note 1 to entry: There may or may not be a product standard in the EN 50131 series for a type 1 component.

Note 2 to entry: A device performing a function outside of the scope of EN 50131-1 may be considered as a "type 1" device if so declared by the supplier (see 4.2.1).

3.1.4

component type 2

device connected to an I&HAS that is not a "type 1" component

3.1.5

configuration

topological arrangement of interconnected components

3.1.6

mandatory function

function that is defined as mandatory for a type 1 component by EN 50131-1 or the relevant EN 50131 product standard

3.1.7

optional function

function that is defined as optional for a type 1 component by EN 50131-1 or the relevant EN 50131 product standard

3.1.8

supplier

natural person or legal entity commissioning the tests

Note 1 to entry: This may or may not be the manufacturer of part or all of the system.

3.2 Abbreviations

For the purposes of this document, the following abbreviations apply:

CIE: Control and indicating equipment

I&HAS: Intruder and hold-up alarm system

PS: Power supply

4 Requirements

4.1 General

In order to comply with this specification, the configuration of the tested system and compatibility of its components shall meet all the requirements of this clause.

This shall be verified by assessment (5.1) with reference to the required documentation (4.3) and shall be subjected to the relevant tests as described in 5.4 to 5.7.

4.2 Basic system requirements

4.2.1 Compliance of components

Components shall meet the requirements of this document and any operation of its function shall not adversely affect the I&HAS.

Components type 1 within the scope of EN 50131-1 shall additionally:

- be compliant with the relevant part(s) of EN 50131; or
- if there is no part of EN 50131 relevant to the component, the product shall comply with a relevant national specification or with the manufacturer's specification, which should include the generic requirements detailed in Annex B.

NOTE A supplier may declare a device outside of EN 50131-1 scope as a "type 1" device. In this case, the supplier should provide details of relevant functionality that is critical for the purposes of this document, which should be considered as fulfilling the above, and form the basis for compliance testing.

Claims of compliance with the compatibility requirements of CLC/TS 50131-5-4 shall not be used to imply that individual products are compliant with the EN 50131 series product standards or that non-specified functions operate correctly.

4.2.2 Connection of components

The connection of components under consideration shall permit testing of the functionality of each event type from source to destination.

Where the supplier requires multiple components to be evaluated, they shall be connected and their functionality tested together.

NOTE Simulation of other types of system component may be appropriate.

4.2.3 Non-I&HAS functionality

If a non-I&HAS function is performed by a component connected to an I&HAS, any operation of this function shall not adversely affect the I&HAS.

4.2.4 Components including functionality shared with other systems

If an I&HAS function is shared with any other system, the requirements of CLC/TS 50398 apply, such that any operation of the shared function shall not adversely affect the I&HAS.

4.2.5 Relationship between functionalities

The relationship between the various types of functionality is illustrated in Annex A.

4.3 Documentation

Documentation relevant to the configuration of components under consideration shall be provided by the supplier, and shall contain information necessary for assessment of compatibility, including:

- a) a list of components to be evaluated, with a unique identification of each component including hardware and software versions (where appropriate);
- b) specifications of cables or other interconnection media (including limitations. EXAMPLE distance, size, environmental condition);
- c) details of I&HAS functions incorporated into each component;
- d) details of I&HAS functions that are to be simulated;