

**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
les hold-up situés dans des locaux
surveillés

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

This Technical Specification was approved by CENELEC on 2012-05-28.

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CENELEC

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Contents

Page

Foreword.....	3
Introduction.....	4
1 Scope	5
2 Normative references	5
3 Terms, definitions and abbreviations	5
4 Requirements	6
5 Assessment methods and tests	8
Annex A (informative) Functions of an I&HAS	13
Annex B (informative) Generic requirements for testing of a component within scope of EN 50131-1 for which no EN 50131 product standard exists	14

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.

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.

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.