



BSI Standards Publication

Alarm systems — Alarm transmission systems and equipment

Part 3: Requirements for Receiving Centre Transceiver (RCT)

National foreword

This British Standard is the UK implementation of EN 50136-3:2013+A1:2021. It supersedes BS EN 50136-3:2013, which will be withdrawn on 7 December 2021.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CENELEC text carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee GW/1/5, Transmission equipment and networks.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English version

**Alarm systems -
Alarm transmission systems and equipment -
Part 3: Requirements for Receiving Centre Transceiver (RCT)**

Systèmes d'alarme -
Systèmes et équipements de transmission
d'alarme -
Partie 3: Exigences pour les transmetteurs
du centre de réception (RCT)

Alarmanlagen -
Alarmübertragungsanlagen und -
einrichtungen -
Teil 3: Anforderungen an
Übertragungszentralen (ÜZ)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

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European foreword

This document (EN 50136-3:2013) has been prepared by CLC/TC 79 "Alarm systems".

The following dates are proposed:

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EN 50136 consists of the following parts, under the general title, *Alarm systems — Alarm transmission systems and equipment*:

- *Part 1: General requirements for alarm transmission systems*;
- *Part 2: Requirements for Supervised Premises Transceiver (SPT)*;
- *Part 3: Requirements for Receiving Centre Transceiver (RCT)*;
- *Part 4: Annunciation equipment used in alarm receiving centres* (Technical Specification);
- *Part 7: Application guidelines* (Technical Specification);
- *Part 9: Requirements for common protocol for alarm transmission using the Internet protocol* (Technical Specification).

Foreword to amendment A1

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1 Scope

This European Standard specifies the minimum equipment requirements for the performance, reliability, resilience, security and safety characteristics of the receiving centre transceiver (RCT) installed in ARC and used in alarm transmission systems.

The alarm transmission system requirements and classifications are defined within EN 50136-1. Different types of alarm systems may in addition to alarm messages also send other types of messages, e.g. fault messages and status messages. These messages are also considered to be alarm messages. The term alarm message is used in this broad sense throughout the document.

Where application specific standards exist, the RCT should comply with relevant standards called up by that application.

The RCT can be either an integrated element of any receiving/annunciation equipment, or a stand-alone device. In either case, the requirements of this European Standard should apply.

The function of the RCT is to monitor the ATPs, receive alarm messages, forward alarm messages to one or more AEs and send acknowledgements to the SPTs.

Management of the transmission network is not in the scope of this European Standard.

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 50130-4, *Alarm systems — Part 4: Electromagnetic compatibility — Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems*

EN 50130-5, *Alarm systems — Part 5: Environmental test methods*

EN 50136-1:2012¹, *Alarm systems - Alarm transmission systems and equipment - Part 1: General requirements for alarm transmission systems*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 50136-1:2012 and the following apply.

3.1

remote access

access to the equipment from any location that is outside the protected premises in which the equipment is located

4 Object

This document specifies the minimum equipment requirements for the performance, reliability, resilience, security and safety characteristics of the Receiving Centre Transceiver (RCT) installed in

¹ As impacted by EN 50136-1:2012/A1:2018.

alarm receiving centres and/or in a secure location, and to define parameters that shall be tested to ensure its compatibility with ATS categories. ^(A1)

5 General

5.1 Introduction

Where appropriate, equipment shall comply with local, national and European requirements and regulations for connection and transmission via public or private networks.

Requirements in this European Standard shall be considered as a minimum. As the RCT is used together with or integrated receiving/annunciation equipment, the requirements of the specific applications or related standards shall apply.

5.2 RCT classification

This European Standard defines RCT requirements. For the purpose of RCT classification reference is made to the ATS categories in EN 50136-1. The RCT documentation shall describe for which ATS categories the RCT complies with the requirements.

6 Functional requirements

6.1 General

The RCT shall provide communication between one or more AEs and one or more SPTs and monitor the interface(s) to one or more AEs.

The RCT shall monitor the ATSS.

6.2 Access levels

This European Standard specifies four levels of access that categorise the ability of users to access the RCT functions.

Access levels are defined as following:

- Level 1 Access to indications;
- Level 2 Access to the operational status and commissioning functions;
- Level 3 Maintenance functions, access to affect the RCT configuration including site-specific data and other operations that directly, or indirectly, may adversely influence the functions of the RCT;
- Level 4 Access to software updates and read-only parameters.

These access levels apply only for logical access (i.e. not physical access). Access to all functions shall require authorisation with a key.

Access levels 2, 3 and 4 shall use personalised accounts to achieve traceability.

A level 4 user shall be authorised by a user with level 3 access. This authorisation may be permanent or time limited.

Access at all levels shall require authorisation with a key. The key mechanism shall be able to provide at least 1 000 000 different keys.