

Irish Standard I.S. EN 50491-1:2014

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) -Part 1: General requirements

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NSAI T +353 1 807 3800 Sales:

 1 Swift Square,
 F +353 1 807 3838
 T +353 1 857 6730

 Northwood, Santry
 E standards@nsai.ie
 F +353 1 857 6729

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General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 1: General requirements

Exigences générales pour systèmes électroniques pour les foyers domestiques et les bâtiments (HBES) et pour systèmes de gestion technique du bâtiment (SGTB) - Partie 1: Exigences générales

Allgemeine Anforderungen an die Elektrische Systemtechnik für Heim und Gebäude (ESHG) sowie an Systeme der Gebäudeautomation (GA) -Teil 1: Allgemeine Anforderungen

This European Standard was approved by CENELEC on 2014-03-10. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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EN 50491-1:2014

Foreword

This document (EN 50491-1:2014) has been prepared by CLC/TC 205 "Home and Building Electronic Systems (HBES)".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2017–03–10 conflicting with this document have to be withdrawn

EN 50491-1 is part of the EN 50491 series, which comprises the following parts under the generic title General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS):

- Part 1: General requirements;
- Part 2: Environmental conditions;
- Part 3: Electrical safety requirements;
- Part 4-1: General functional safety requirements for products intended to be integrated in Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS);
- Part 5-1: EMC requirements, conditions and test set-up;
- Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment:
- Part 5-3: EMC requirements for HBES/BACS used in industry environment;
- Part 6-3: HBES installations Assessment and definition of levels [Technical Report];
- Part 11: Smart Metering Application Specifications Simple External Consumer Display; (under development);
- Part 12: Smart grid Application specification Interface and framework for customer (under development).

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.

1 Scope

This European Standard applies to all Home and Building Electronic Systems (HBES) and Building Automation Control Systems (BACS) and specifies the general requirements for these systems and products covering the following functionalities:

- HBES class 1: simple control and command;
- HBES class 2: simple voice and stable video transmission including class 1;
- HBES class 3: video transfers including class 2.

This European Standard provides an overview of this series of European Standards.

To enable integration of a wide spectrum of applications, EN 50491 series covers:

- electrical safety,
- functional safety,
- environmental conditions,
- EMC requirements,
- installation and cabling rules and topologies,
- Smart Metering Application specification (under development),
- Smartgrid Application specification Interface and framework (under development).

EN 50491 series is a product family 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 50174-2, Information technology — Cabling installation — Part 2: Installation planning and practices inside buildings

EN 50491-2, General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) — Part 2: Environmental conditions

EN 50491-3, General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 3: Electrical safety requirements

EN 50491-4-1, General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) — Part 4-1: General functional safety requirements for products intended to be integrated in Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS)

EN 50491-5-1, General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) — Part 5-1: EMC requirements, conditions and test set-up



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