

Telecontrol equipment and systems —

Part 4: Specification for performance —

(Implementation of CENELEC HD 546.4 S1)

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Power Electrical Engineering Standards Policy Committee (PEL/-) to Technical Committee PEL/89, upon which the following bodies were represented:

- Association of Consulting Engineers
- BAMEMA (BEAMA)
- BEAMA Ltd.
- EEA (the Association of Electronics, Telecommunications and Business Equipment Industries)
- Electricity Supply Industry in United Kingdom
- GAMBICA (BEAMA Ltd.)
- North of Scotland Hydro-Electric Board
- Telecommunication Engineering and Manufacturing Association
- Transmission and Distribution Association (BEAMA Ltd.)

This British Standard, having been prepared under the direction of the Power Electrical Engineering Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 31 October 1991

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The following BSI references relate to the work on this standard:
Committee reference PEL/89
Draft for comment 89/33074 DC

ISBN 0 580 20110 4

Amendments issued since publication

Amd. No.	Date	Comments
7172	November 1992	Indicated by a sideline in the margin

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National foreword

This Part of BS 7404 has been prepared under the direction of the Power Electrical Engineering Standards Policy Committee and is identical with IEC Publication 870-4:1990 “*Telecontrol equipment and systems — Part 4: Performance requirements*”, published by the International Electrotechnical Commission (IEC), which has been endorsed by CENELEC as HD 546.4 S1.

The International Standard does not give the up-to-date relation between this Part of the IEC standard and the other published and envisaged Parts and Sections. Other Parts and Sections of this British Standard are as follows.

- *Part 1: General considerations;*
- *Section 1.1: General principles;*
- *Section 1.2: Guide for specifications;*
- *Section 1.3: Glossary;*
- *Section 1.4: Basic aspects of telecontrol data transmission¹⁾;*
- *Part 2: Operating conditions;*
- *Section 2.1: Specification for classes of environmental conditions and power supplies;*
- *Section 2.2: Specification for electromagnetic compatibility and erosive and corrosive influences²⁾;*
- *Part 3: Specification for interfaces (electrical characteristics);*
- *Part 4: Specification for performance;*
- *Part 5: Transmission protocols;*
- *Section 5.1: Specification for transmission frame formats;*
- *Section 5.2: Specification for transmission procedures³⁾;*
- *Section 5.3: Specification for structure of application data⁴⁾;*
- *Section 5.4: Specification for coding specifications of application data⁵⁾;*
- *Part 6: Specification for telecontrol protocols compatible with ISO and CCITT standards²⁾.*

Cross-references

International Standard	Corresponding British Standard
	BS 7404 <i>Telecontrol equipment and systems</i>
IEC 870-1-1:1988	Section 1.1:1991 <i>General principles</i> (Identical)
IEC 870-5-1:1990	Section 5.1:1991 <i>Specification for transmission frame formats</i> (Identical)

The Technical Committee has reviewed the provisions of IEC 50(371), IEC 51, IEC 271, IEC 271A, IEC 300 and the IEC 688 series, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this British Standard.

¹⁾ Will be published after IEC 870-1-4 has been published.

²⁾ Not yet published, envisaged as future work by IEC.

³⁾ Will be published after IEC 870-5-2 has been published.

⁴⁾ Will be published after IEC 870-5-3 has been published.

⁵⁾ Will be published after IEC 870-5-4 has been published.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the HD title page, pages 2 to 18, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

UDC 621.398:621.316.1:681.3

Descriptors: Electronics, telecommunications, telecontrol, remote control, operating characteristics, reliability, availability, maintenance, safety, specification

English version

Telecontrol equipment and systems Part 4: Performance requirements

(IEC 870-4:1990)

Matériels et systèmes de téléconduite
Quatrième partie: Prescriptions relatives aux
performances
(CEI 870-4:1990)

Fernwirkeinrichtungen und Fernwirkssysteme
Teil 4: Anforderungen an die
Leistungsmerkmale
(IEC 870-4:1990)

This Harmonization Document was approved by CENELEC on 1991-12-10. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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

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Foreword

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 870-4:1990 could be accepted without textual changes, has shown that no CENELEC common modifications were necessary for the acceptance as Harmonization Document.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as HD 546.4 S1 on 10 December 1991.

The following dates were fixed:

- latest date of announcement of the HD at national level (doa) 1992-06-01
- latest date of publication of a harmonized national standard (dop) 1992-12-01
- latest date of withdrawal of conflicting national standard (dow) 1992-12-01

For products which have complied with the relevant national standard before 1992-12-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1997-12-01.

Annexes designated “normative” are part of the body of the standard. In this standard, Annex ZA is normative.