National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60870-5-102:1999

ICS 33.200

TELECONTROL EQUIPMENT AND SYSTEMS.

PART 5: TRANSMISSION PROTOCOLS.

SECTION 102: COMPANION STANDARD FOR THE TRANSMISSION OF INTEGRATED TOTALS IN ELECTRIC POWER SYSTEMS (IEC 870-5-102:1996)

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This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:
January 8, 1999

Price Code R

Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60870-5-102

August 1996

ICS 33.200

Descriptors: *Telecontrol, transmission protocols, companion standard, electricity consumption, electric power system, physical layer, data link layer, application layer, interoperability*

English version

Telecontrol equipment and systems
Part 5: Transmission protocols
Section 102: Companion standard for the transmission of integrated totals in electric power systems
(IEC 870-5-102:1996)

Matériels et systèmes de téléconduite
Partie 5: Protocoles de transmission
Section 102: Norme d'accompagnement pour la transmission de totaux intégrés dans un système électrique de puissance
(CEI 870-5-102:1996)

Fernwirkeinrichtungen und -systeme
Teil 5: Übertragungsprotokolle
Hauptabschnitt 102: Anwendungsbezogene Norm für die Zählerstandsübertragung in der Elektrizität
(IEC 870-5-102:1996)

This European Standard was approved by CENELEC on 1996-07-02. 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.

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

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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

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Foreword

The text of document 57/254/FDIS, future edition 1 of IEC 870-5-102, prepared by IEC TC 57, Power system control and associated communications, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60870-5-102 on 1996-07-02.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1997-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-04-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annexes A and B are informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 870-5-102:1996 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 50(371)	1984	International electrotechnical vocabulary (IEV) - Chapter 371: Telecontrol	-	-
IEC 870-1-1	1988	Telecontrol equipment and systems Part 1: General considerations Section 1: General principles	-	-
IEC 870-1-3	1990	Section 3: Glossary	-	-
IEC 870-1-4	1994	Section 4: Basic aspects of telecontrol data transmission and organization of standards IEC 870-5 and IEC 870-6	-	-
IEC 870-5-1	1990	Part 5: Transmission protocols Section 1: Transmission frame formats	EN 60870-5-1	1993
IEC 870-5-2	1992	Section 2: Link transmission procedures	EN 60870-5-2	1993
IEC 870-5-3	1992	Section 3: General structure of application data	EN 60870-5-3	1992
IEC 870-5-4	1993	Section 4: Definition and coding of application information elements	EN 60870-5-4	1993
IEC 870-5-5	1995	Section 5: Basic application functions	EN 60870-5-5	1995
IEC 870-5-101	1995	Section 101: Companion standard for basic telecontrol tasks	EN 60870-5-101	1996
ISO/IEC 8482	1993	Information technology Telecommunications and information exchange between systems - Twisted pair multipoint interconnections	-	-
ITU-T V.24	1994	List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)	-	-

Publication	Year	Title	EN/HD	Year
ITU-T V.28	1994	Electrical characteristics for unbalanced double-current interchange circuits	-	-