



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60870-5-103:1999

ICS 33.200

TELECONTROL EQUIPMENT AND SYSTEMS

PART 5-103: TRANSMISSION PROTOCOLS

COMPANION STANDARD FOR THE

INFORMATIVE INTERFACE OF PROTECTION

EQUIPMENT (IEC 60870-5-103:1997)

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60870-5-103

February 1998

ICS 33.200

Descriptors: Telecontrol, transmission protocol, protection equipment, companion standard, informative interface

English version

**Telecontrol equipment and systems
Part 5-103: Transmission protocols
Companion standard for the informative interface
of protection equipment
(IEC 60870-5-103:1997)**

Matériels et systèmes de téléconduite
Partie 5-103: Protocoles de transmission
Norme d'accompagnement pour
l'interface de communication
d'information des équipements de
protection
(CEI 60870-5-103:1997)

Fernwirkeinrichtungen und -systeme
Teil 5-103: Übertragungsprotokolle
Anwendungsbezogene Norm für die
Informationsschnittstelle von
Schutzeinrichtungen
(IEC 60870-5-103:1997)

This European Standard was approved by CENELEC on 1998-01-01. 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, Czech Republic, 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 57/327/FDIS, future edition 2 of IEC 60870-5-103, 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 60870-5-103 on 1998-01-01.

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) 1998-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1998-10-01

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 60870-5-103:1997 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.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|-------------------|-------------|
| IEC 60050(371) | 1984 | International electrotechnical vocabulary (IEV) - Chapter 371: Telecontrol | - | - |
| IEC 60794-1 | 1996 | Optical fibre cables Part 1: Generic specification | - | - |
| IEC 60794-2 | 1989 | Optical fibre cables Part 2: Product specifications | - | - |
| IEC 60870-5-1 | 1990 | Telecontrol equipment and systems Part 5: Transmission protocols Section 1: Transmission frame formats | EN 60870-5-1 | 1993 |
| IEC 60870-5-2 | 1992 | Section 2: Link transmission procedures | EN 60870-5-2 | 1993 |
| IEC 60870-5-3 | 1992 | Section 3: General structure of application data | EN 60870-5-3 | 1992 |
| IEC 60870-5-4 | 1993 | Section 4: Definition and coding of application information elements | EN 60870-5-4 | 1993 |
| IEC 60870-5-5 | 1995 | Section 5: Basic application functions | EN 60870-5-5 | 1995 |
| IEC 60874-2 | 1993 | Connectors for optical fibres and cables - Part 2: Sectional specification for fibre optic connector-type F-SMA | - | - |
| IEC 60874-10 | 1992 | Part 10: Sectional specification Fibre optic connector type BFOC/2,5 | - | - |
| ISO/IEC 7498-1 | 1994 | Information technology - Open systems interconnection - Basic reference model: The basic model | EN ISO/IEC 7498-1 | 1995 |

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|-----------------------------|-------------|--|--------------|-------------|
| EIA RS-485 | | Standard for electrical characteristics of generators and receivers for use in balanced digital multipoint systems | - | - |
| R 32 - IEEE Standard 754 | | | . | |
| R 64 - IEEE Standard 754 | | | | |

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