



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 60870-2-2:1999**

ICS 29.020  
33.200

## **TELECONTROL EQUIPMENT AND SYSTEMS**

### **PART 2: OPERATING CONDITIONS**

#### **SECTION 2: ENVIRONMENTAL CONDITIONS**

##### **(CLIMATIC, MECHANICAL AND OTHER**

##### **NON-ELECTRICAL INFLUENCES)**

##### **(IEC 870-2-2:1996)**

National Standards  
Authority of Ireland  
Glasnevin, Dublin 9  
Ireland

Tel: +353 1 807 3800  
Fax: +353 1 807 3838  
<http://www.nsai.ie>

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**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN 60870-2-2**

October 1996

ICS 33.200

Partly supersedes HD 546.2.1 S1:1991

Descriptors: Telecontrol equipment and systems, operating conditions, environmental conditions, environmental parameters, tests

English version

**Telecontrol equipment and systems**  
**Part 2: Operating conditions**  
**Section 2: Environmental conditions**  
**(climatic, mechanical and other non-electrical influences)**  
**(IEC 870-2-2:1996)**

Matériels et systèmes de téléconduite  
Partie 2: Conditions de fonctionnement  
Section 2: Conditions d'environnement  
(influences climatiques, mécaniques et  
autres influences non électriques)  
(CEI 870-2-2:1996)

Fernwirkeinrichtungen und -systeme  
Teil 2: Betriebsbedingungen  
Hauptabschnitt 2:  
Umgebungsbedingungen (klimatische,  
mechanische und andere  
nichtelektrische Einflüsse)  
(IEC 870-2-2:1996)

This European Standard was approved by CENELEC on 1996-10-01. 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, 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

### **Foreword**

The text of document 57/264/FDIS, future edition 1 of IEC 870-2-2, 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 60870-2-2 on 1996-10-01.

This European Standard, together with EN 60870-2-1:1996, supersedes HD 546.2.1 S1:1991.

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) 1997-07-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 1997-07-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A, B and ZA are normative.

Annex ZA has been added by CENELEC.

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### **Endorsement notice**

The text of the International Standard IEC 870-2-2:1996 was approved by CENELEC as a European Standard without any modification.

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**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 68	series	Environmental testing	HD 323 EN 60068	series series
IEC 654-1	1993	Industrial-process measurement and control equipment - Operating conditions Part 1: Climatic conditions	EN 60654-1	1993
IEC 654-4	1987	Part 4: Corrosive and erosive influences	-	-
IEC 721-2-1	1982	Classification of environmental conditions Part 2: Environmental conditions appearing in nature - Temperature and humidity	HD 478.2.1 S1 <sup>1)</sup>	1989
IEC 721-3-1	1987	Part 3: Classification of groups of environmental parameters and their severities Section 1: Storage	EN 60721-3-1 <sup>2)</sup>	1993
IEC 721-3-2	1985	Part 3: Classification of groups of environmental parameters and their severities - Transportation	EN 60721-3-2 <sup>3)</sup>	1993
IEC 721-3-3	1994	Section 3: Stationary use at weatherprotected locations	EN 60721-3-3	1995
IEC 721-3-4	1995	Section 4: Stationary use at non-weatherprotected locations	EN 60721-3-4	1995
IEC Guide 106	1989	Guide for specifying environmental conditions for equipment performance rating	-	-

1) HD 478.2.1 S1 includes A1:1987 to IEC 721-2-1.

2) EN 60721-3-1 includes A1:1991 to IEC 721-3-1.

3) EN 60721-3-2 includes A1:1991 to IEC 721-3-2.



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