



National Standards Authority of Ireland

STANDARD

I.S. EN 62270:2004

ICS 27.140

**HYDROELECTRIC POWER PLANT
AUTOMATION - GUIDE FOR
COMPUTER-BASED CONTROL (IEC
62270:2004)**

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EUROPEAN STANDARD

EN 62270

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2004

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English version

**Hydroelectric power plant automation -
Guide for computer-based control
(IEC 62270:2004)**

Automatisation
de centrale hydroélectrique -
Guide pour la commande
à base de calculateur
(CEI 62270:2004)

Automatisierung von Wasserkraftwerken -
Leitfaden zur computergestützten
Steuerung
(IEC 62270:2004)

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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 two official versions (English, 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.

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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 4/188/FDIS, future edition 1 of IEC 62270, prepared by IEC TC 4, Hydraulic turbines, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62270 on 2004-07-01.

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) | 2005-04-01 |
| – latest date by which the national standards conflicting
with the EN have to be withdrawn | (dow) | 2007-07-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62270:2004 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE Where 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 61158	Series	Digital data communications for measurement and control - Fieldbus for use in industrial control systems	EN 61158	Series
ANSI C63.4	2001	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz - 40 GHz	-	-
IEEE Std 100	1996	The IEEE Standard Dictionary of Electrical and Electronics Terms	-	-
IEEE Std 485	1997	IEEE Recommended Practice for Sizing Lead-Acid Batteries for Stationary Applications (ANSI)	-	-
IEEE Std 610	1990	IEEE Standard Glossary of Software Engineering Terminology (ANSI)	-	-
IEEE Std 1010	1987	IEEE Guide for Control of Hydroelectric Power Plants (ANSI)	-	-
IEEE Std 1014	1987	IEEE Standard for a Versatile Backplane Bus: VMEbus	-	-
IEEE Std 1020	1988	IEEE Guide for Control of Small Hydroelectric Power Plants (ANSI)	-	-
IEEE Std 1046	1991	IEEE Application Guide for Distributed Digital Control and Monitoring for Power Plants (ANSI)	-	-
IEEE Std 1147	1991	IEEE Guide for the Rehabilitation of Hydroelectric Power Plants (ANSI)	-	-
IEEE Std C37.1	1994	IEEE Standard Definition, Specification, and Analysis of Systems Used for Supervisory Control, Data Acquisition, and Automatic Control (ANSI)	-	-
IEEE Std C37.90.1	2002	IEEE Standard Surge Withstand Capability (SWC) Tests for Protective Relays and Relay Systems (ANSI)	-	-

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEEE Std C37.90.2	1995	IEEE Trial Use Standard for Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from Transceivers (ANSI)	-	-
IEEE Std 1379	2000	IEEE Recommended Practice for Data Communications Between Remote Terminal Units and Intelligent Electronic Devices in a Substation (ANSI)	-	-
ISO/IEC 8802-3	2001	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications	-	-
ISO/IEC 8802-4	1990	Part 4: Token-passing bus access method and physical layer specifications	-	-
ISO/IEC 8802-5	1998	Part 5: Token ring access method and physical layer specifications	-	-

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