



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61993-1:2000

ICS 47.020.70

**MARITIME NAVIGATION AND
RADIOCOMMUNICATION EQUIPMENT AND
SYSTEMS. PART 1: SHIPBORNE AUTOMATIC
TRANSPONDER SYSTEM INSTALLATION
USING VHF DIGITAL SELECTIVE CALLING
(DSC) TECHNIQUES. OPERATIONAL AND
PERFORMANCE REQUIREMENTS, METHODS
OF TESTING AND REQUIRED TEST RESULTS
(IEC 61993-1:1999)**

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*This Irish Standard was
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authority of the National
Standards Authority of
Ireland and comes into
effect on:*

September 8, 2000

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61993-1

August 1999

ICS 47.020.70

English version

**Maritime navigation and radiocommunication equipment and systems
Part 1: Shipborne automatic transponder system installation using
VHF digital selective calling (DSC) techniques
Operational and performance requirements,
methods of testing and required test results
(IEC 61993-1:1999)**

Matériels et systèmes de navigation et
de radiocommunication maritimes
Partie 1: Installation de systèmes de
répondeur automatique de bord de
navires utilisant des techniques d'appel
sélectif numérique en ondes métriques
Exigences d'exploitation et de
fonctionnement, méthodes d'essai et
résultats d'essai exigés
(CEI 61993-1:1999)

Navigations- und
Funkkommunikationsgeräte und
-systeme für die Seeschifffahrt
Teil 1: Installationen für ein
automatisches Transpondersystem für
Schiffe, das die Technik des digitalen
Selektivrufs (DSC) auf UKW einsetzt
Betriebs- und Leistungsanforderungen,
Prüfverfahren und geforderte
Prüfergebnisse
(IEC 61993-1:1999)

This European Standard was approved by CENELEC on 1999-08-01. 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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 80/212/FDIS, future edition 1 of IEC 61993-1, prepared by IEC TC 80, Maritime navigation and radiocommunication equipment and systems, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61993-1 on 1999-08-01.

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) 2000-05-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2002-08-01

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

Annexes designated "informative" are given for information only.

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

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61993-1:1999 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 60945	1996	Maritime navigation and radiocommunication equipment and systems General requirements - Methods of testing and required test results	EN 60945	1997
IEC 61097-3	1994	Global maritime distress and safety system (GMDSS) Part 3: Digital selective calling (DSC) equipment - Operational and performance requirements, methods of testing and required test results	-	-
IEC 61097-7	1996	Part 7: Shipborne VHF radiotelephone transmitter and receiver - Operational and performance requirements, methods of testing and required test results	-	-
IEC 61162	series	Maritime navigation and radiocommunication equipment and systems Digital interfaces Part 1: Single talker and multiple listeners	EN 61162	series
	1997	IMO International Convention for the Safety of Life at Sea (SOLAS) (consolidated edition)	-	-
IMO Resolution A.694	1991	General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids	-	-
IMO Resolution A.803	1995	Performance standards for shipborne VHF radio installations capable of voice communication and digital selective calling	-	-
IMO MSC. 74(69)	1998	Performance standards for an Universal shipborne automatic identification systems (AIS)	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
	1997	ITU Radio regulations	-	-
ITU-R Recommendation M.489-2	1995	Technical characteristics of VHF radiotelephone equipment operating in the maritime mobile service in channels spaced by 25 kHz	-	-
ITU-R Recommendation M.493-9	1997	Digital selective-calling system for use in the maritime mobile service	-	-
ITU-R Recommendation M.541-8	1997	Operational procedures for the use of digital selective calling (DSC) equipment in the maritime mobile service	-	-
ITU-R Recommendation M.825-2	1997	Characteristics of a transponder system using digital selective-calling techniques for use with vessel traffic services and ship-to-ship identification	-	-
ITU-R Recommendation M.1371	1998	Technical characteristics for a universal shipborne automatic identification system using time division multiple access in the VHF maritime mobile band	-	-
ITU-T Recommendation V.11	1996	Electrical characteristics for balanced double-current interchange circuits operating at data signalling rates up to 10 Mbits/s	-	-
ITU-T Recommendation V.24	1996	List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)	-	-
ITU-T Recommendation V.28	1993	Electrical characteristics for unbalanced double-current interchange circuits	-	-

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