

Ships and marine technology - Marine electromagnetic compasses

Ships and marine technology - Marine
electromagnetic compasses

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 11606:2002 sisaldab Euroopa standardi EN ISO 11606:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 14.02.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 11606:2002 consists of the English text of the European standard EN ISO 11606:2001.</p> <p>This document is endorsed on 14.02.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
--	---

<p>Käsitlusala: This standard specifies general requirements, type tests and individual tests of marine electromagnetic compasses intended for steering purposes and/or taking bearings on board ships required by Chapter V of SOLAS, 1974 and International Code of Safety for High-Speed Craft (HSC Code).</p>	<p>Scope: This standard specifies general requirements, type tests and individual tests of marine electromagnetic compasses intended for steering purposes and/or taking bearings on board ships required by Chapter V of SOLAS, 1974 and International Code of Safety for High-Speed Craft (HSC Code).</p>
--	--

ICS 47.020.70

Võtmesõnad: electromagnetic equipment, instruments, magnetic compasses, manufacturing requirements, marking, performance, performance tests, sea navigation, shipbuilding, specifications, tests, type testing(tests)

English version

Ships and marine technology
Marine electromagnetic compasses
(ISO 11606 : 2000)

Navires et technologie maritime –
Compas électromagnétiques de
marine (ISO 11606 : 2000)

Schiffe und Meerestechnik –
Elektromagnetische Kompassse
für Schiffe (ISO 11606 : 2000)

This European Standard was approved by CEN on 2001-06-23.

CEN 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 Management Centre or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Management Centre: rue de Stassart 36, B-1050 Brussels

Foreword

International Standard

ISO 11606 : 2000 Ships and marine technology – Marine electromagnetic compasses, which was prepared by ISO/TC 8 ‘Ships and marine technology’ of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 300 ‘Seagoing vessels and marine technology’, the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by February 2002 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national Standards Organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 11606 : 2000 was approved by CEN as a European Standard without any modification.

Contents

	Page
1 Scope	3
2 Normative references	3
3 Terms and definitions	3
4 Composition	4
5 Construction and material	4
6 Performance	8
7 Precautions against failure	9
8 Marking	9
9 Type testing and individual testing	9
10 Certification	9
11 Testing	10
12 Designation	15

Annex

A Equivalent requirements in ISO 11606 and IMO Resolutions.....	16
Bibliography.....	16

1 Scope

This International Standard specifies general requirements, type tests and individual tests for marine electromagnetic compasses intended for steering purposes and/or taking bearings on board ships required by Chapter V of SOLAS, 1974 and the International Code of Safety for High-Speed Craft (HSC Code). The magnetic compasses specified in this standard shall apply to the ships the overall length of which is normally not less than 24 m. In this context an electromagnetic compass is an item of electronic equipment which uses the geomagnetic field to obtain information about the ship's heading. This information is conveyed to the main compass (which is used for steering and taking bearings), to additional repeater indicators and, if required, to other navigational equipment.

NOTE All requirements that are extracted from the recommendations of IMO resolutions are printed in italics.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 449:1997, *Ships and marine technology — Magnetic compasses, binnacles and azimuth reading devices — Class A*.

ISO 1069, *Magnetic compasses and binnacles for sea navigation — Vocabulary*.

IEC 60945, *Marine navigation and radiocommunication equipment and systems — General requirements — Methods of testing and required test results*.

IEC 61162 (both parts), *Maritime navigation and radiocommunication equipment and systems — Digital interfaces*.

IMO Resolution A.694(17), *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.813(19), *General requirements for electromagnetic compatibility (EMC) for all electrical and electronic ship's equipment*.

IMO Resolution MSC.86(70), Annex 2, *Recommendation on performance standards for marine transmitting magnetic heading devices (TMHD's)*.

3 Terms and definitions

For the purposes of this International Standard, the definitions given in ISO 1069 and the following terms and definitions apply.

3.1

magnetic sensor

sensor which detects the geomagnetic field and supplies an appropriate output concerning direction to the processor