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Technical characteristics and methods of measurement for fixed and portable VHF equipment operating on 121,5 MHz and 123,1 MHz

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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**Technical characteristics and methods of measurement
for fixed and portable VHF equipment operating
on 121,5 MHz and 123,1 MHz**

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Foreword

This European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

National transposition dates	
Date of adoption of this EN:	12 February 2016
Date of latest announcement of this EN (doa):	31 May 2016
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 November 2016
Date of withdrawal of any conflicting National Standard (dow):	30 November 2016

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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1 Scope

The present document specifies the minimum technical requirements for maritime two-way AM VHF radiotelephone apparatus for communications between ships in distress and rescuing aircraft. The present document incorporates relevant provisions of the ITU Radio Regulations [i.1], of IMO Resolutions A.694(17) [i.2] and MSC.80(70) [i.3] and of annex 10 to the ICAO Convention [i.4].

The maritime VHF equipment described in the present document is intended for communications on the aeronautical emergency frequencies 121,5 MHz and 123,1 MHz only.

The present document is applicable to portable and fixed installed equipment.

NOTE: This type of equipment is covered by the Maritime Equipment Directive [i.6] and its subsequent revisions.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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The following referenced documents are necessary for the application of the present document.

- [1] ETSI EN 300 225: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Technical characteristics and methods of measurement for survival craft portable VHF radiotelephone apparatus".
- [2] ISO 25862:2009: "Ships and marine technology -- Marine magnetic compasses, binnacles and azimuth reading devices".
- [3] CENELEC EN 60945:2002: "Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results".
- [4] ETSI TS 103 052 (V1.1.1) (03-2011): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Radiated measurement methods and general arrangements for test sites up to 100 GHz".

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ITU Radio Regulations 2012.
- [i.2] 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".
- [i.3] IMO Resolution MSC.80(70): "Adoption of new Performance Standards for radiocommunication equipment".

- [i.4] ICAO Convention on International Civil Aviation, annex 10.
 - [i.5] ETSI TR 100 028: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics".
 - [i.6] Council Directive 96/98/EC of 20 December 1996 on marine equipment.
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