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Elektromagnetna združljivost in zadeve v zvezi z radijskim spektrom (ERM) - Pomorski osebni javljalniki lokacije majhne moči z uporabo AIS - 2. del: Harmonizirani EN, ki zajema bistvene zahteve člena 3.2 direktive R&TTE

Electromagnetic compatibility and Radio spectrum Matters (ERM) - Maritime low power personal locating beacons employing AIS - Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

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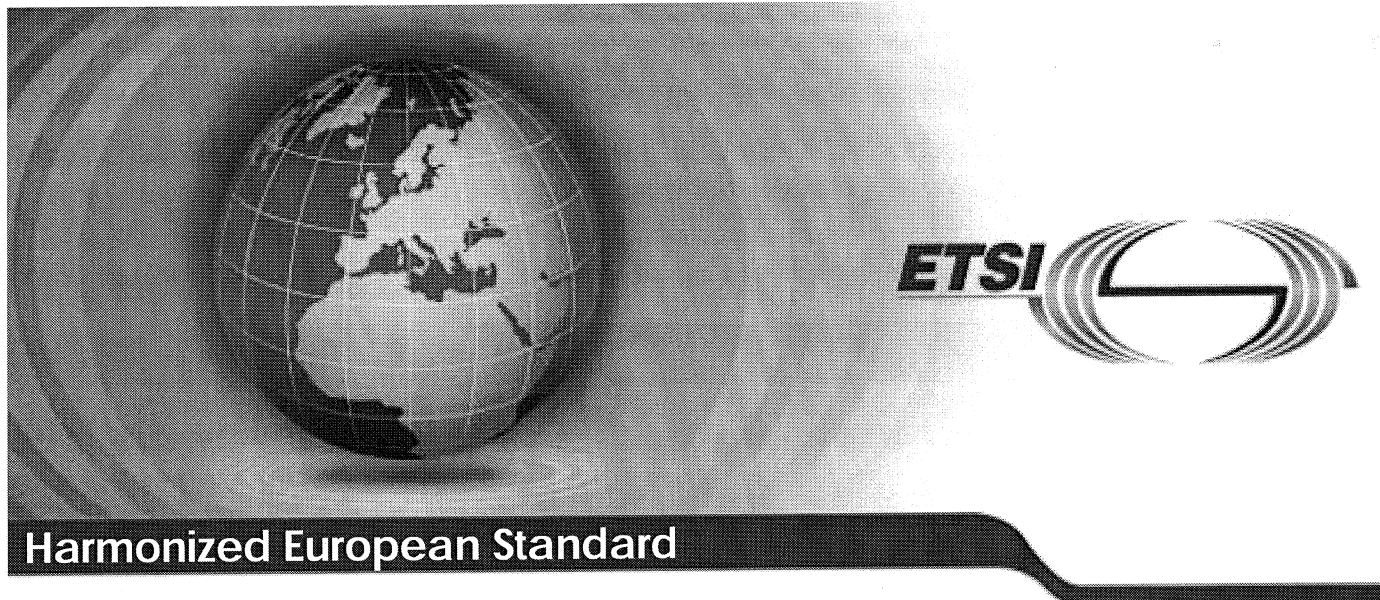
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Harmonized European Standard

**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Maritime low power personal locating
beacons employing AIS;**

**Part 2: Harmonized EN covering the essential requirements
of article 3.2 of the R&TTE Directive**

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Foreword

This draft Harmonized European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM), and is now submitted for the combined Public Enquiry and Vote phase of the ETSI standards EN Approval Procedure.

The present document has been produced by ETSI in response to mandate M/284 issued from the European Commission under Directive 98/34/EC [i.2] as amended by Directive 98/48/EC [i.4].

The title and reference to the present document are intended to be included in the publication in the Official Journal of the European Union of titles and references of Harmonized Standard under the Directive 1999/5/EC [i.1].

See article 5.1 of Directive 1999/5/EC [i.1] for information on presumption of conformity and Harmonised Standards or parts thereof the references of which have been published in the Official Journal of the European Union.

The present document is part 2 of a multi-part deliverable covering the maritime low power personal locating beacons employing AIS as identified below:

- Part 1: "Technical characteristics and methods of measurement";
- Part 2: "Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive".

| Proposed national transposition dates | |
|--|---------------------------------|
| Date of latest announcement of this EN (doa): | 3 months after ETSI publication |
| Date of latest publication of new National Standard or endorsement of this EN (dop/e): | 6 months after doa |
| Date of withdrawal of any conflicting National Standard (dow): | 18 months after doa |

Introduction

The present document is part of a set of standards developed by ETSI and is designed to fit in a modular structure to cover all radio and telecommunications terminal equipment within the scope of the R&TTE Directive [i.1]. The modular structure is shown in EG 201 399 [i.3].

1 Scope

The present document applies to low power maritime personal locating beacons employing AIS and an integrated GNSS receiver to provide the locating function.

The applicable frequencies of operation of this type of radio equipment are given in table 1.

Table 1: Radiocommunications service frequencies

| Radiocommunications service frequencies | |
|---|-------------|
| Transmit AIS1 | 161,975 MHz |
| Receive AIS1 | 161,975 MHz |
| Transmit AIS2 | 162,025 MHz |
| Receive AIS2 | 162,025 MHz |

The present document is intended to cover the provisions of Directive 1999/5/EC [i.1] (R&TTE Directive), article 3.2, which states that "... *radio equipment shall be so constructed that it effectively uses the spectrum allocated to terrestrial/space radio communications and orbital resources so as to avoid harmful interference*".

In addition to the present document, other ENs that specify technical requirements in respect of essential requirements under other parts of Article 3 of the R&TTE Directive [i.1] may apply to equipment within the scope of the present document.

NOTE: A list of such ENs is included on the web site <http://www.newapproach.org>.

2 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 referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

2.1 Normative references

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

- [1] ETSI EN 303 098-1 (V1.1.0): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Maritime low power personal locating beacons employing AIS; Part 1: Technical characteristics and methods of measurement".

2.2 Informative references

- [i.1] Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity (R&TTE Directive).
- [i.2] Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations.
- [i.3] ETSI EG 201 399: "Electromagnetic compatibility and Radio spectrum Matters (ERM); A guide to the production of Harmonized Standards for application under the R&TTE Directive".

- [i.4] Directive 98/48/EC of the European Parliament and of the Council of 20 July 1998 amending Directive 98/34/EC laying down a procedure for the provision of information in the field of technical standards and regulations.
- [i.5] ETSI TR 100 028 (all parts - V1.4.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics".

3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

| | |
|------|------------------------------------|
| AIS | Automatic Identification System |
| ERP | Effective radiated power |
| GNSS | Global Navigation Satellite System |

4 Technical requirements specifications

4.1 Environmental profile

The technical requirements of the present document apply under the environmental profile for operation of the equipment, which shall be declared by the supplier. The equipment shall comply with all the technical requirements of the present document at all times when operating within the boundary limits of the declared operational environmental profile.

4.2 Conformance requirements

4.2.1 Transmitter frequency error

4.2.1.1 Definition

The frequency error is defined in EN 303 098-1 [1], clause 8.1.1.

4.2.1.2 Limit

The transmitter frequency error limit shall be as stated in EN 303 098-1 [1], clause 8.1.3.

4.2.1.3 Conformance

Conformance tests as defined in clause 5.3.1 shall be carried out.

4.2.2 Conducted power

4.2.2.1 Definition

The conducted power is defined in EN 303 098-1 [1], clause 8.2.1.

4.2.2.2 Limit

The conducted power limit shall be as stated in EN 303 098-1 [1], clause 8.2.3.

4.2.2.3 Conformance

Conformance tests as defined in clause 5.3.2 shall be carried out.

4.2.3 Effective radiated power (ERP)

4.2.3.1 Definition

The ERP is defined in EN 303 098-1 [1], clause 8.3.1.

4.2.3.2 Limit

The ERP limit shall be as stated in EN 303 098-1 [1], clause 8.3.3.

4.2.3.3 Conformance

Conformance tests as defined in clause 5.3.3 shall be carried out.

4.2.4 Transmitter spectrum mask

4.2.4.1 Definition

The transmitter spectrum mask is defined in EN 303 098-1 [1], clause 8.4.1.

4.2.4.2 Limit

The transmitter spectrum mask limit shall be as stated in EN 303 098-1 [1], clause 8.4.3.

4.2.4.3 Conformance

Conformance tests as defined in clause 5.3.4 shall be carried out.

4.2.5 Transmitter transient behaviour - output power

4.2.5.1 Definition

The transmitter transient behaviour - output power is defined in EN 303 098-1 [1], clause 8.5.1.

4.2.5.2 Limit

The transmitter transient behaviour - output power limit shall be as stated in EN 303 098-1 [1], clause 8.5.3.

4.2.5.3 Conformance

Conformance tests as defined in clause 5.3.5 shall be carried out.

4.2.6 Transmitter transient behaviour - frequency deviation

4.2.6.1 Definition

The transmitter transient behaviour - frequency deviation is defined in EN 303 098-1 [1], clause 8.6.1.

4.2.6.2 Limit

The transmitter transient behaviour - frequency deviation limit shall be as stated in EN 303 098-1 [1], clause 8.6.3.

4.2.6.3 Conformance

Conformance tests as defined in clause 5.3.6 shall be carried out.