IEC 61097-16

Edition 1.0 2019-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Global maritime distress and safety system (GMDSS) – Part 16: Ship earth stations operating in mobile-satellite systems recognized for use in the GMDSS – Operational and performance requirements, methods of testing and required test results

Système mondial de détresse et de sécurité en mer (SMDSM) – Partie 16: Stations terriennes de navire fonctionnant dans les systèmes mobiles par satellite reconnus pour une utilisation dans le SMDSM – Exigences opérationnelles et de fonctionnement, méthodes d'essai et résultats exigibles

IEC 61097-16:2019-07 (en-fr)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 47.020.70

ISBN 978-2-8322-7119-3

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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International Standard IEC 61097-16 has been prepared by IEC technical committee 80: Maritime navigation and radiocommunication equipment and systems.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
80/928/FDIS	80/932/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 61097 series, published under the general title *Global maritime distress and safety system (GMDSS)*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM (GMDSS) –

Part 16: Ship earth stations operating in mobile-satellite systems recognized for use in the GMDSS – Operational and performance requirements, methods of testing and required test results

1 Scope

This part of IEC 61097 specifies the minimum operational and performance requirements, methods of testing and required test results for any ship earth stations intended for operation in mobile-satellite systems and services which are recognized by the International Maritime Organization as meeting the criteria required by the IMO under regulation IV/4-1 of the International Convention for the Safety of Life at Sea, 1974, as amended, for the provision of mobile-satellite systems and services in the GMDSS, regardless of the mobile satellite provider used.

This document incorporates the minimum criteria and performance standards of the IMO, currently prescribed in IMO Resolution A.1001(25) in IMO Resolution MSC.434(98) and is also associated with IMO Resolution A.694(17) and IEC 60945.

All text of this document whose wording is identical to that of resolution MSC.434(98) is printed in *italics* and reference is made to that resolution and the sub-clause number.

Matters relating to the installation of the ship earth station are given in Annex A.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 60945, *Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results*

IEC 61162-1, *Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 1: Single talker and multiple listeners*

IEC 61162-450, *Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 450: Multiple talkers and multiple listeners – Ethernet interconnection*

IEC 61162-460, *Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 460: Multiple talkers and multiple listeners – Ethernet interconnection – Safety and security*

IEC 62288, *Maritime navigation and radiocommunication equipment and systems – Presentation of navigation-related information on shipborne navigational displays – General requirements, methods of testing and required test results*

IEC 62923-1, *Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 1: Operational and performance requirements, methods of testing and required test results*