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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Ships and marine technology - Navigation and ship operations -
Electronic inclinometers**

船舶与海上技术 导航和船舶操纵 电子倾斜仪

(English Translation)

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Figure B:1 Schematic diagram of inverted pendulum equipment

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is equivalent to ISO 19697:2016 "Electronic Inclinometer for Ship and Offshore Technical Navigation and Ship Maneuvering":

This document has made the following minimal editorial changes:

---Modified the notes in Chapter 1:

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

This document is under the jurisdiction of the National Standardization Technical Committee for Ship Electrical and Electronic Equipment (SAC/TC531):

1 Scope

This document specifies the performance requirements, test methods and test results of electronic inclinometers: In addition, general requirements for electronic inclinometers are provided in IMO A.694(17) resolution, and coordinated with IEC 60945:

This document applies to electronic inclinometers that comply with the requirements of resolution IMOMSC:363(92):

The electronic inclinometer provides actual heel angle, roll amplitude, and roll period to support the maritime decision-making process, avoid dangerous situations, and maintain stability:

(See Appendix A), assist in marine accident investigations: The electronic inclinometer mainly consists of a set of sensors, signal processors, displays, input devices and Interfaces with other systems:

This document does not apply to electronic inclinometers outside the scope of ship navigation and maneuvering purposes, such as electronic inclinometers used to monitor cargo status:

Inclinometer:

When the requirements of this document are inconsistent with IEC 60945, this document shall take precedence:

Note: The requirements of resolution IMOMSC:363(92) apply in this document, and the resolution and paragraph numbers are marked in brackets:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

IEC 60945 General requirements for maritime navigation and radiocommunication equipment and systems Test methods and required test results (Mari-Note: GB/T 15868-1995 Global Maritime Distress and Safety System (GMDSS) General Requirements Test Method for Marine Radio Equipment and Maritime Navigation Equipment and required test results (IEC 60945:1994, IDT) IEC 61162-1 Digital interfaces for maritime navigation and radiocommunication equipment and systems Part 1: Single transmitter and multiple receivers IEC 61162-2 Digital interfaces for maritime navigation and radiocommunication equipment and systems Part 2: Single transmitter and multiple receivers Note: GB/T 31843.2-2019 Digital interfaces for maritime navigation and radiocommunication equipment and systems Part 2: Single transmitter and multi-receiver high High speed transmission (IEC 61162-2:1998, IDT) IEC 61924-2 Integrated navigation system for maritime navigation and radiocommunication equipment and systems Part 2: Integrated navigation system module IEC 62288 General requirements for display of navigation-related information on shipboard navigation displays for maritime navigation and radiocommunication equipment and systems