

# iTeh Standards (https://standards.iteh.ai) Document Preview

ISO 25862:2019/Amd 1:2024

https://standards.iteh.ai/catalog/standards/iso/d2121360-bb03-4bfe-a70d-fa6ae487a1f7/iso-25862-2019-amd-1-2024



#### **COPYRIGHT PROTECTED DOCUMENT**

#### © ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org Published in Switzerland

© ISO 2024 – All rights reserved

#### ISO 25862:2019/Amd.1:2024(en)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="https://www.iso.org/directives">www.iso.org/directives</a>).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see <a href="https://www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 6, *Navigation and ship operations*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <u>www.iso.org/members.html</u>.

#### ISO 25862:2019/Amd 1:2024

https://standards.iteh.ai/catalog/standards/iso/d2121360-bb03-4bfe-a70d-fa6ae487a1f7/iso-25862-2019-amd-1-2024

# iTeh Standards (https://standards.iteh.ai) Document Preview

<u>ISO 25862:2019/Amd 1:2024</u> https://standards.iteh.ai/catalog/standards/iso/d2121360-bb03-4bfe-a70d-fa6ae487a1f7/iso-25862-2019-amd-1-2024

# Ships and marine technology — Marine magnetic compasses, binnacles and azimuth reading devices

# AMENDMENT 1

Normative references

Add the following document as a normative reference:

IEC 61000-4-8:2009, Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test

Annex F

Add the following sentence at the end of the annex:

See Annex I for practical specifications and requirements of compass safe distance measurements.

ileh Standard

Annex I

(https://standards.iteh.ai)

Add the following annex after Annex H, before the Bibliography:

ISO 25862:2019/Amd 1:2024

https://standards.iteh.ai/catalog/standards/iso/d2121360-bb03-4bfe-a70d-fa6ae487a1f7/iso-25862-2019-amd-1-2024

© ISO 2024 – All rights reserved

#### ISO 25862:2019/Amd.1:2024(en)

## Annex I (informative)

### **Compass safe distance measurement**

#### I.1 General

This Annex gives practical specifications and requirements on implementing compass safe distance measurements as determined in Annex F. It covers general test conditions, test equipment and test procedures for typical test layouts, in accordance with the requirements in Annex F.

#### I.2 Test conditions

#### a) Ambient conditions:

The temperature and relative humidity shall be in accordance with the ambient conditions specified in IEC 60945:2002, 5.2.1.

b) Power supply:

Power supply tolerances shall be in accordance with IEC 60945:2002, 5.2.1.

c) Electromagnetic conditions:

The magnetic environment of the test site shall be independent of any ferromagnetic or electromagnetic influences that can disturb the measurement, the test equipment, the EUT or the earth's magnetic field.

NOTE To achieve this, methods can be taken, such as the use of a homogeneous stabilizing artificial magnetic field to minimize negative effects on the measurement caused by the environment.

O 25862:2019/Amd 1:2024

#### https I.3 an Test equipment /standards/iso/d2121360-bb03-4bfe-a70d-fa6ae487a1f7/iso-25862-2019-amd-1-2024

Unless otherwise specified, the following applies:

- a) magnetic field generator and Helmholtz coils for magnetization [see Annex F b)] shall conform to IEC 61000-4-8:2009, 6.2 and 6.3;
- b) equipment used in the test shall not cause additional electromagnetic interference.

#### I.4 Test methods

#### I.4.1 General requirements

a) Mounting kits, stands and other options, accessories and fittings which are normally used and provided with the EUT shall be fitted to the EUT during the measurement. If not, each unit of the EUT should be tested.

As it is unclear how cables, hat rails or other relevant parts are installed in ships, it is possible that these parts are not included in the measurement, even though they should be clearly considered as not a part of the vessel or as a part of the EUT.