

FINAL  
DRAFT

AMENDMENT

ISO  
25862:2019  
FDAM 1

ISO/TC 8/SC 6

Secretariat: JISC

Voting begins on:  
2023-11-29

Voting terminates on:  
2024-01-24

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

### AMENDMENT 1

*Navires et structures maritimes — Compas magnétiques marins,  
habitacles et alidades*

AMENDEMENT 1

## Document Preview

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Reference number  
ISO 25862:2019/FDAM 1:2023(E)

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Published in Switzerland

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

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# **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.

### *Annex I*

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

[ISO 25862:2019/FDAmD 1](https://standards.iteh.ai/catalog/standards/sist/d2121360-bb03-4bfe-a70d-fa6ae487a1f7/iso-25862-2019-fdamd-1)

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## 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.

#### I.3 Test equipment

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.