

INTERNATIONAL STANDARD

ISO
2923

Second edition
1996-12-01

Acoustics — Measurement of noise on board vessels

Acoustique — Mesurage du bruit à bord des bateaux



Reference number
ISO 2923:1996(E)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 2923 was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

This second edition cancels and replaces the first edition (ISO 2923:1975), which has been technically revised.

Annex A of this International Standard is for information only.

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet: central@isocs.iso.ch
X.400: c=ch; a=400net; p=iso; o=isocs; s=central

Printed in Switzerland

Acoustics — Measurement of noise on board vessels

1 Scope

This International Standard specifies techniques and conditions for the measurement of noise on board vessels, both inland and seagoing, in order to obtain reproducible and comparable measurements. The results may be used, for example, for the following:

- to compare various vessels;
- in delivery and acceptance tests for comparison with national or international legislation and owner's specifications;
- in monitoring tests;
- as a basis for further investigations and noise-abatement measures;
- as a basis to assess the noise exposure and the effects of the noise to which seafarers are exposed;
- to assess speech intelligibility;
- to assess the audibility of acoustical alarms.

The uncertainty of measurements on board vessels depends on several factors, for example, measurement techniques and environmental conditions. Measurements made in conformity with this International Standard with few exceptions result in standard deviations of reproducibility of the equivalent continuous A-weighted sound pressure level equal to or less than 1,5 dB.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 651:1979, *Sound level meters*, and Amendment 1:1993.

IEC 804:1985, *Integrating-averaging sound level meters*, and Amendment 1:1989, and Amendment 2:1993.

IEC 942: 1988, *Sound calibrators*.

IEC 1260:1995, *Electroacoustics — Octave-band and fractional-octave-band filters*.