

<b>STN</b>	<b>Akustika</b> <b>Meranie hluku šíreného vzduchom vyžarovaného plavidlami na vnútrozemských vodných cestách a v prístavoch (ISO 2922: 2020)</b>	<b>STN</b> <b>EN ISO 2922</b>  01 1675
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Acoustics - Measurement of airborne sound emitted by vessels on inland waterways and harbours (ISO 2922:2020)

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/21

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English Version

**Acoustics - Measurement of airborne sound emitted by  
vessels on inland waterways and harbours (ISO  
2922:2020)**

Acoustique - Mesurage du bruit aérien émis par les  
bateaux de navigation intérieure et portuaire (ISO  
2922:2020)

Akustik - Messung des von Wasserfahrzeugen auf  
Binnengewässern und in Häfen abgestrahlten  
Luftschalls (ISO 2922:2020)

This European Standard was approved by CEN on 10 December 2020.

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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN ISO 2922:2020 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>

## **European foreword**

This document (EN ISO 2922:2020) has been prepared by Technical Committee ISO/TC 43 "Acoustics" in collaboration with Technical Committee CEN/TC 211 "Acoustics" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2021, and conflicting national standards shall be withdrawn at the latest by June 2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 2922:2000.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Endorsement notice**

The text of ISO 2922:2020 has been approved by CEN as EN ISO 2922:2020 without any modification.

# INTERNATIONAL STANDARD

# ISO 2922

Third edition  
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## **Acoustics — Measurement of airborne sound emitted by vessels on inland waterways and harbours**

*Acoustique — Mesurage du bruit aérien émis par les bateaux de  
navigation intérieure et portuaire*



Reference number  
ISO 2922:2020(E)

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# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Measurement quantities</b> .....	<b>3</b>
<b>5 Measuring equipment</b> .....	<b>4</b>
5.1 Equipment specifications.....	4
5.2 Windscreen.....	4
5.3 Operational check/Calibration.....	4
5.4 Verification.....	4
<b>6 Test site specifications and environmental conditions</b> .....	<b>5</b>
6.1 Test conditions.....	5
6.2 Test site specifications.....	5
6.2.1 Moving vessels.....	5
6.2.2 Stationary vessels.....	5
6.3 Environmental conditions.....	5
6.4 Background noise.....	5
6.4.1 Acceptance tests.....	5
6.4.2 Monitoring tests.....	6
6.5 Measurements on stationary vessels.....	6
<b>7 Test course and measurement of distance</b> .....	<b>6</b>
<b>8 Operating conditions</b> .....	<b>7</b>
8.1 Distance from the microphone.....	7
8.2 Loading condition.....	7
8.3 Main engines.....	7
8.4 Auxiliary engines.....	7
8.5 Doors and windows.....	7
8.6 Monitoring tests.....	7
<b>9 Microphone position</b> .....	<b>8</b>
<b>10 Test procedure</b> .....	<b>8</b>
10.1 Moving vessels.....	8
10.2 Stationary vessels.....	9
<b>11 Measurement uncertainty</b> .....	<b>9</b>
<b>12 Test report</b> .....	<b>10</b>
<b>Bibliography</b> .....	<b>12</b>



# ISO 2922:2020(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.

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 documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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 [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

This third edition cancels and replaces the second edition (ISO 2922:2000), which has been technically revised. It also incorporates the amendment ISO 2922:2000/Amd 1:2013.

The main changes compared to the previous edition are as follows:

- clarification in the Scope that the document is applicable to vessels of all speeds and lengths;
- specification of: sound pressure level measurement response (slow), in [4.1](#); integration time for background noise (5 min), in [6.4](#); and the surf/weather limitation (sea state 1), in [6.3.2](#), during the survey period;
- addition of a formula to compute the sound pressure level at 25 m in [10.1.4](#).

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 [www.iso.org/members.html](http://www.iso.org/members.html).

# Acoustics — Measurement of airborne sound emitted by vessels on inland waterways and harbours

## 1 Scope

This document specifies the conditions for obtaining reproducible and comparable measurement results of the airborne sound emitted by vessels of all kinds, on inland waterways and in ports and harbours, except powered recreational craft as specified in the ISO 14509 series. This document is applicable to sea-going vessels, harbour vessels, dredgers, and all watercraft, including non-displacement craft, used or capable of being used as a means of transport on water. There are no limitations to the application of this document with regard to speed, length and height of vessels, as long as the ship is determined to act like a point source at the reference distance of 25 m.

All noise data obtained in accordance with this document are referred to a reference distance of 25 m.

## 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.

ISO 1996-2:2017, *Acoustics — Description, measurement and assessment of environmental noise — Part 2: Determination of sound pressure levels*

ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

IEC 60942:2017, *Electroacoustics — Sound calibrators*

IEC 61183, *Electroacoustics — Random-incidence and diffuse-field calibration of sound level meters*

IEC 61260-1, *Electroacoustics — Octave-band and fractional-octave-band filters — Part 1: Specifications*

IEC 61260-3, *Electroacoustics — Octave-band and fractional-octave-band-filters — Part 3: Periodic tests*

IEC 61672-1, *Electroacoustics — Sound level meters — Part 1: Specifications*

IEC 61672-3, *Electroacoustics — Sound level meters — Part 3: Periodic tests*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**