

DIN EN ISO 11202



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Supersedes
DIN EN ISO 11202:2009-11

**Acoustics –
Noise emitted by machinery and equipment –
Determination of emission sound pressure levels at a work station and
at other specified positions applying approximate environmental
corrections (ISO 11202:2010)
English translation of DIN EN ISO 11202:2010-10**

Akustik –
Geräuschabstrahlung von Maschinen und Geräten –
Bestimmung von Emissions-Schalldruckpegeln am Arbeitsplatz und an anderen
festgelegten Orten unter Anwendung angenäherter Umgebungskorrekturen
(ISO 11202:2010)
Englische Übersetzung von DIN EN ISO 11202:2010-10

Acoustique –
Bruit émis par les machines et équipements –
Détermination des niveaux de pression acoustique d'émission au poste de travail et en
d'autres positions spécifiées en appliquant des corrections d'environnement
approximatives (ISO 11202:2010)
Traduction anglaise de DIN EN ISO 11202:2010-10

Document comprises 50 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.



A comma is used as the decimal marker.

National foreword

This standard has been prepared by Technical Committee ISO/TC 43 "Acoustics", Subcommittee SC 1 "Noise", Working Group WG 28 "Basic machinery noise emission standards" in collaboration with Technical Committee CEN/TC 211 "Acoustics" (Secretariat: DS, Denmark).

The responsible German body involved in its preparation was the *Normenausschuss Akustik, Lärminderung und Schwingungstechnik im DIN und VDI* (Acoustics, Noise Control and Vibration Engineering Standards Committee in DIN and VDI), Working Committee NA 001-01-04 AA *Geräuschemission von Maschinen und Anlagen; Messung, Minderung, Datensammlung*.

The DIN Standards corresponding to the International Standards referred to in this document are as follows:

ISO 3534-2	DIN ISO 3534-2	ISO 9614-1	DIN EN ISO 9614-1
ISO 3740	DIN EN ISO 3740 ¹⁾	ISO 9614-2	DIN EN ISO 9614-2
ISO 3741	DIN EN ISO 3741 ¹⁾	ISO 9614-3	DIN EN ISO 9614-3
ISO 3743-1	DIN EN ISO 3743-1 ¹⁾	ISO 11200	DIN EN ISO 11200 ¹⁾
ISO 3743-2	DIN EN ISO 3743-2	ISO 11201	DIN EN ISO 11201
ISO 3744	DIN EN ISO 3744 ¹⁾	ISO 11203	DIN EN ISO 11203
ISO 3745	DIN EN ISO 3745 ¹⁾	ISO 11204	DIN EN ISO 11204
ISO 3746	DIN EN ISO 3746 ¹⁾	ISO 11205	DIN EN ISO 11205
ISO 3747	DIN EN ISO 3747 ¹⁾	ISO/TR 11690-3	DIN EN ISO 11690-3
ISO 4871	DIN EN ISO 4871	ISO 12001	DIN EN ISO 12001
standards series	standards series	IEC 60942	DIN EN 60942
ISO 5725	DIN ISO 5725	IEC 61260	DIN EN 61260
ISO 6926	DIN EN ISO 6926	IEC 61672-1	DIN EN 61672-1
ISO 7574-1	DIN EN 27574-1	ISO/IEC Guide 98-3	DIN V ENV 13005

Amendments

This standard differs from DIN EN ISO 11202:2009-11 as follows:

- a) the method has been extended to accuracy grade 2 (engineering grade) and accuracy grade 3 (survey grade);
- b) a further procedure for the determination of the local environmental correction on the basis of the approximate apparent work station directivity index has been added;
- c) criteria for the test environment (1.3) have been specified;
- d) criteria for background noise (6.4) have been supplemented and absolute criteria (B.1) have been added;
- e) at a specified altitude of the measurement position above sea level and depending on the accuracy grade, the emission sound pressure level is to be normalized to the reference meteorological conditions;

1) Under revision.

- f) Clause 11 “Measurement uncertainty” has been completely revised and a new Annex C “Guidance on the development of information on measurement uncertainty” has been included;
- g) Annex D “Principles of the methodology” has been included;
- h) the former Annex A “Guidelines for the detection of impulsive noise” has been deleted;
- i) the standard has been editorially revised.

Previous editions

DIN 45635: 1970-03

DIN 45635-1: 1972-01, 1984-04

DIN EN ISO 11202: 1996-07, 2009-11

National Annex NA (informative)

Bibliography

DIN V ENV 13005, *Guide to the expression of uncertainty in measurement*

DIN EN 27574-1, *Acoustics — Statistical methods for determining and verifying stated noise emission values of machinery and equipment — Part 1: General considerations and definitions*

DIN EN 60942, *Electroacoustics — Sound calibrators (IEC 60942:2003)*

DIN EN 61260, *Electroacoustics — Octave-band and fractional-octave-band filters*

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

DIN EN ISO 3740, *Acoustics — Determination of sound power levels of noise sources — Guidelines for the use of basic standards*

DIN EN ISO 3741, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Precision methods for reverberation rooms*

DIN EN ISO 3743-1, *Acoustics — Determination of sound power levels of noise sources — Engineering methods for small, movable sources in reverberant fields — Part 1: Comparison method for hard-walled test rooms*

DIN EN ISO 3743-2, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Engineering methods for small, movable sources in reverberant fields — Part 2: Methods for special reverberation test rooms*

DIN EN ISO 3744, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Engineering method in an essentially free field over a reflecting plane*

DIN EN ISO 3745, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Precision methods for anechoic and hemi-anechoic rooms*

DIN EN ISO 3746, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Survey method using an enveloping measurement surface over a reflecting plane*

DIN EN ISO 3747, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Comparison method for use in situ*

DIN EN ISO 4871, *Acoustics — Declaration and verification of noise emission values of machinery and equipment*

DIN EN ISO 6926, *Acoustics — Requirements for the performance and calibration of reference sound sources used for the determination of sound power levels*

DIN EN ISO 9614-1, *Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 1: Measurement at discrete points*

DIN EN ISO 9614-2, *Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 2: Measurement by scanning*

DIN EN ISO 9614-3, *Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 3: Precision method for measurement by scanning*

DIN EN ISO 11200, *Acoustics — Noise emitted by machinery and equipment — Guidelines for the use of basic standards for the determination of emission sound pressure levels at a work station and at other specified positions*

DIN EN ISO 11201, *Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions — Engineering method in an essentially free field over a reflecting plane*

DIN EN ISO 11203, *Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level*

DIN EN ISO 11204, *Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions applying accurate environmental corrections*

DIN EN ISO 11205, *Acoustics — Noise emitted by machinery and equipment — Engineering method for the determination of emission sound pressure levels in situ at the work station and at other specified positions using sound intensity*

DIN EN ISO 11690-3, *Acoustics — Recommended practice for the design of low-noise workplaces containing machinery — Part 3: Sound propagation and noise prediction in workrooms*

DIN EN ISO 12001, *Acoustics — Noise emitted by machinery and equipment — Rules for the drafting and presentation of a noise test code*

DIN ISO 3534-2, *Statistics — Vocabulary and symbols — Part 2: Applied statistics*

DIN ISO 5725 (all parts), *Accuracy (trueness and precision) of measurement methods and results*

English Version

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11202:2010)

This European Standard was approved by CEN on 22 April 2010.

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