SIST

SLOVENSKI STANDARD
SIST EN ISO 11203:2009/oprA1:2018

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Akustika - Emisija hrupa naprav in opreme - Ugotavljanje emisijske ravni zvočnega tlaka na mestu delovanja in na drugih opredeljenih mestih z ravni zvočne moči - Dopolnilo A1 (ISO 11203:1995/DAM 1:2018)

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 - Amendment 1 (ISO 11203:1995/DAM 1:2018)

Akustik - Geräuschabstrahlung von Maschinen und Geräten - Bestimmung von Emissions-Schalldruckpegeln am Arbeitsplatz und an anderen festgelegten Orten aus dem Schallleistungspegel - Änderung 1 (ISO 11203:1995/DAM 1:2018)

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 à partir du niveau de puissance acoustique - Amendement 1 (ISO 11203:1995/DAM 1:2018)

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ICS:

17.140.20	Emisija hrupa naprav in opreme	Noise emitted by machines and equipment

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DRAFT AMENDMENT

ISO 11203:1995/DAM 1

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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

AMENDMENT 1

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 à partir du niveau de puissance acoustique

AMENDEMENT 1

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

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

AMENDMENT 1

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Page 1, 1.1

Replace NOTE 1 with:

The contents of this and related International Standards are summarised in Table 1 of ISO 11200:2014.

Page 2, Normative references

Replace the references (including the footnotes) with the following:

ISO 3741:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for reverberation test rooms*

ISO 3743-1:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering methods for small movable sources in reverberant fields — Part 1:Comparison method for a hard-walled test room*

ISO 3743-2:1994[1)] *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*

ISO 3744:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering methods for an essentially free field over a reflecting plane*

ISO 3745:2012, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for anechoic test rooms and hemi-anechoic test rooms*

ISO 3745:2012/Amd.1:2017, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for anechoic test rooms and hemi-anechoic test rooms* — AMENDMENT 1

ISO 3746:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Survey method using an enveloping measurement surface over a reflecting plane*

ISO 3747:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering/survey methods for use in situ in a reverberant environment*

ISO 4871:1996, *Acoustics — Declaration and verification of noise emission values of machinery and equipment*

ISO 9614-1:1993, *Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 1: Measurement at discrete points*

ISO 9614-2:1996, *Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 2: Measurement by scanning*

1) Under revision.

ISO 9614-3:2002, *Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 3: Precision method for measurement by scanning*

ISO 11200:2014, *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*

ISO 11200:2014/Amd.1[2)], *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* — AMENDMENT 1

ISO 12001:1996, *Acoustics — Noise emitted by machinery and equipment — Rules for the drafting and presentation of a noise test code*

IEC 60942:2017, Electroacoustics — Sound calibrators

IEC 61260-1:2014, Electroacoustics — Octave-band and fractional-octave-band filters — Part 1: Specifications

IEC 61672-1:2013, Electroacoustics — Sound level meters — Part 1: Specifications

Page 2, Clause 2

Replace all definitions with:

3.1

emission

<acoustics> airborne sound radiated by a well-defined noise source (e.g. the machine under test) under specified operating and mounting conditions

[SOURCE: ISO 12001:1996, 3.3]

Note 1 to entry Emission values may be incorporated into a product label and/or product specification. The basic noise emission quantities are the sound power level of the source itself and the emission sound pressure levels at the work station and/or at other specified positions (if any) in the vicinity of the source.

3.2

emission sound pressure

p

sound pressure, at a work station or another specified position near a noise source, when the source is in operation under specified operating and mounting conditions on a reflecting plane surface, excluding the effects of background noise as well as the effects of reflections other than those from the plane or planes permitted for the purpose of the test

Note 1 to entry Emission sound pressure is expressed in pascals.

3.3

emission sound pressure level

L_p

2) Under preparation.

ten times the logarithm to the base 10 of the ratio of the square of the emission sound pressure, p, to the square of a reference value, p_0, expressed in decibels

$$L_p = 10 lg \frac{p^2}{p_0^2} \text{dB}$$

where the reference value, p_0, is 20 µPa

Note 1 to entry The emission sound pressure level is determined at a work station or another specified position in accordance with either a noise test code for a specific family of machines or, if no noise test code exists, one of the standards of the series ISO 11200 to ISO 11205.

3.3.1

time-averaged emission sound pressure level

$\boldsymbol{L_{p,T}}$

ten times the logarithm to the base 10 of the ratio of the time average of the square of the emission sound pressure, p, during a stated time interval of duration, T (starting at t_1 and ending at t_2), to the square of a reference value, p_0, expressed in decibels

$$L_{p,T} = 10 lg \left[\frac{\frac{1}{T}\int_{t_1}^{t_2} p^2(t) dt}{p_0^2} \right] dB$$

where the reference value, p_0, is 20 µPa

Note 1 to entry For simplicity of notation, the subscript T is omitted throughout the following text.

Note 2 to entry If specific frequency and time weightings as specified in IEC 61672-1 and/or specific frequency bands are applied, this is indicated by appropriate subscripts; e.g. L_{pA} denotes the A-weighted emission sound pressure level.

Note 3 to entry The equation is equivalent to that for the environmental noise descriptor “equivalent continuous sound pressure level” (ISO 1996-1[1]). However, the emission quantity defined above is used to characterize the noise emitted by a source under test and assumes that standardized measurement and operating conditions as well as a controlled acoustical environment are used for the measurements

3.3.2

peak emission sound pressure

$\boldsymbol{p_{peak}}$

greatest absolute emission sound pressure during a stated time interval

Note 1 to entry Peak sound pressure is expressed in pascals.

Note 2 to entry A peak sound pressure may arise from a positive or negative sound pressure.

3.3.3

