საქართველოს სტანდარტი

აკუსტიკა - ხმაური გამოყოფილი მანქანა-დანადგარები და აღჭურვილობა - ემისიის განსაზღვრა ხმაურის წნევის დონეების სამუშაო ადგილზე და სხვა მითითებულ პოზიციებზე არსებითად თავისუფალი ველისათვის ამრეკლ ბრტყელ ზედაპირზე (ისო 11201:2010)

საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტო თბილისი

სსტ ენ ისო 11201:2010/2019

საინფორმაციო მონაცემები

- 1 **შემუშავებულია** საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს სტანდარტების დეპარტამენტის მიერ
- 2 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს 2019 წლის 6 დეკემბრის № 98 განკარგულებით
- 3 მიღებულია გარეკანის თარგმნის მეთოდით სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ ისო 11201:2010 "აკუსტიკა ხმაური გამოყოფილი მანქანადანადგარები და აღჭურვილობა ემისიის განსაზღვრა ხმაურის წნევის დონეების სამუშაო ადგილზე და სხვა მითითებულ პოზიციებზე არსებითად თავისუფალი ველისათვის ამრეკლ ბრტყელ ზედაპირზე (ისო 11201:2010)"

4 პირველად

5 რეგისტრირებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2019 წლის 6 დეკემბერი N268-1.3-016534

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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Supersedes EN ISO 11201:2009

English Version

Acoustics - Noise emitted by machinery and equipment Determination of emission sound pressure levels at a work
station and at other specified positions in an essentially free field
over a reflecting plane with negligible environmental corrections
(ISO 11201:2010)

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 dans des conditions approchant celles du champ libre sur plan réfléchissant avec des corrections d'environnement négligeables (ISO 11201:2010)

Akustik - Geräuschabstrahlung von Maschinen und Geräten - Bestimmung von Emissions-Schalldruckpegeln am Arbeitsplatz und an anderen festgelegten Orten in einem im Wesentlichen freien Schallfeld über einer reflektierenden Ebene mit vernachlässigbaren Umgebungskorrekturen (ISO 11201:2010)

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

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 11201:2010) 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 DS.

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 November 2010, and conflicting national standards shall be withdrawn at the latest by November 2010.

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

This document supersedes EN ISO 11201:2009.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 11201:2010 has been approved by CEN as a EN ISO 11201:2010 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 2006/42/EC on machinery.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the normative clauses of this standard confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

WARNING — Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

INTERNATIONAL STANDARD

ISO 11201

Second edition 2010-05-15

Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections

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 dans des conditions approchant celles du champ libre sur plan réfléchissant avec des corrections



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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.

ISO 11201 was prepared by Technical Committee ISO/TC 43, Acoustics, Subcommittee SC 1, Noise.

This second edition cancels and replaces the first edition (ISO 11201:1995), which has been technically revised. It also incorporates the Technical Corrigendum ISO 11201:1995/Cor.1:1997.

Introduction

This International Standard specifies a method for determining the emission sound pressure levels at a work station and at other well defined positions, in the vicinity of a machine or piece of equipment, in an essentially free field over a reflecting plane. It is one of a series (ISO 11200^[15] to ISO 11205^[19]) which specifies various methods for determining the emission sound pressure level at a work station and at other specified positions of a machine or equipment. ISO 11200^[15] gives guidance on the choice of the method to be used to determine the emission sound pressure levels of machinery and equipment.

The method specified in this International Standard differs from those in other International Standards in the ISO 11200^[15] to ISO 11205^[19] series in not applying any environmental correction. Requirements to be fulfilled by the environment are specified for accuracy grade 1 (precision) and grade 2 (engineering) measurements indoors and outdoors.

Precision measurements with accuracy grade 1 can generally be carried out in hemi-anechoic test rooms or outdoors provided that requirements on environmental conditions are met. With the specifications defined in the following it should be possible in some cases to provide such conditions in industrial ambience on larger plane areas outdoors free from reflecting objects.

ISO 11201:1995 provided results of accuracy grade 2 only. This edition of this International Standard provides a method of accuracy grade 2 that is essentially identical to that given in ISO 11201:1995. It also provides a more precise method of accuracy grade 1. Users and drafters of noise test codes referring to this International Standard should indicate clearly which method (accuracy grade 1 or accuracy grade 2) is used.

In general, the emission sound pressure levels are less than or equal to those that occur when the machinery or equipment is operating in its normal surroundings. This is because the sound pressure levels are determined by excluding the effects of background noise, as well as the effects of reflections other than those from the reflecting plane on which the machine under test is placed. For determination or calculation of the sound pressure level at the operator's position with the machine operating in a room, both sound power level and sound pressure level are required (as well as information on the room properties or reflections and noise from other sound sources or machines). A method of calculating the sound pressure levels in the vicinity of a machine operating alone in a workroom is given in ISO/TR 11690-3^[20]. Commonly observed differences are 1 dB to 5 dB, but in extreme cases the difference may be even greater.