

STN	Akustika Hluk zo strelníc Časť 6: Meranie akustického tlaku v blízkosti zdroja pre stanovenie expozície zvuku (ISO 17201-6: 2021)	STN EN ISO 17201-6 01 1685
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Acoustics - Noise from shooting ranges - Part 6: Sound pressure measurements close to the source for determining exposure to sound (ISO 17201-6:2021)

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. 09/22

Obsahuje: EN ISO 17201-6:2022, ISO 17201-6:2021

135382

EUROPEAN STANDARD

EN ISO 17201-6

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2022

ICS 13.140; 17.140.20; 95.020; 97.220.10

English Version

Acoustics - Noise from shooting ranges - Part 6: Sound pressure measurements close to the source for determining exposure to sound (ISO 17201-6:2021)

Acoustique - Bruit des stands de tir - Partie 6:
Mesurages de la pression sonore près de la source pour
déterminer l'exposition au son (ISO 17201-6:2021)

Akustik - Geräusche von Schießplätzen - Teil 6:
Schalldruckmessung im Nahbereich der
Geräuschquelle zur Bestimmung der Schallexposition
(ISO 17201-6:2021)

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EN ISO 17201-6:2022 (E)

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European foreword

The text of ISO 17201-6:2021 has been prepared by Technical Committee ISO/TC 43 "Acoustics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 17201-6:2022 by Technical Committee CEN/TC 211 "Acoustics" the secretariat of which is held by DIN.

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INTERNATIONAL STANDARD

ISO
17201-6

First edition
2021-07

Acoustics — Noise from shooting ranges —

Part 6: Sound pressure measurements close to the source for determining exposure to sound

Acoustique — Bruit des stands de tir —

*Partie 6: Mesurages de la pression sonore près de la source pour
déterminer l'exposition au son*



Reference number
ISO 17201-6:2021(E)

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Published in Switzerland

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ISO 17201-6:2021(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).

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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.

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

A list of all parts in the ISO 17201 series can be found on the ISO website.

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Introduction

ISO 17201-1 to ISO 17201-5 (see [Clause 2](#) and References [2] to [5]) relate to the determination or prediction of environmentally relevant sound immission at receiving locations outside shooting ranges.

There are countries, where the need exists also for knowledge about exposure to sound within a shooting range at short distances from the sound source, for instance for prediction, evaluation, assessment, control or comparison purposes.

Various methods and metrics are in use for the determination of exposure to impulsive sounds, and these can be derived from the measurement and analysis of the time history of sound pressure at the locations of interest.

Close to the muzzle blast or blast of an explosion, the measurement of sound pressure has particular features to be considered. This document can be applied to both indoor and outdoor shooting ranges that can contain different elements or usage situations. The method is applicable for locations where persons may be present at the shooting range, including the shooter and other persons (such as an instructor, supervisor, bystander or observer). The locations of interest include the position of the shooter (and posture and orientation) and the position of other persons within the shooting range.

This document defines how the time history of the sound pressure at locations of interest within a shooting range, regarding the exposure to impulsive sound of a person, can be reliably obtained.

Acoustics — Noise from shooting ranges —

Part 6:

Sound pressure measurements close to the source for determining exposure to sound

1 Scope

This document specifies methods for recording the time history of the sound pressure produced either by shooting with calibres of less than 20 mm, or by detonation of explosive charges of less than 50 g TNT equivalent, within the shooting range at locations of interest, regarding the exposure to sound of the shooter, or any other person within the shooting range. The time history of the sound pressure can be the basis for further analyses of this type of sound at the locations of interest.

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 17201-1:2018, *Acoustics — Noise from shooting ranges — Part 1: Determination of muzzle blast by measurement*

ISO 80000-8, *Quantities and units — Part 8: Acoustics*

IEC 60942, *Electroacoustics — Sound calibrators*

IEC 61094-4, *Measurement microphones — Part 4: Specifications for working standard microphones*

IEC 61094-6:2004, *Measurement microphones — Part 6: Electrostatic actuators for determination of frequency response*

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

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