

Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Measurement procedure for the assessment of specific
absorption rate of human exposure to radio frequency fields from
hand-held and body-mounted wireless communication devices -
Part 1: Devices used next to the ear (Frequency range of 300
MHz to 6 GHz)
(IEC 62209-1:2016)

Procédure de mesure pour l'évaluation du débit
d'absorption spécifique de l'exposition humaine aux champs
radiofréquences produits par les dispositifs de
communications sans fil tenus à la main ou portés près du
corps - Partie 1: Dispositifs utilisés à proximité de l'oreille
(Plage de fréquences de 300 MHz à 6 GHz)
(IEC 62209-1:2016)

Sicherheit von Personen in hochfrequenten Feldern von
handgehaltenen und am Körper getragenen schnurlosen
Kommunikationsgeräten - Körpermodelle, Messgeräte und -
verfahren - Teil 1: Verfahren zur Bestimmung der
spezifischen Absorptionsrate (SAR) von Geräten, die in
enger Nachbarschaft zum Ohr benutzt werden
(Frequenzbereich von 300 MHz bis 6 GHz)
(IEC 62209-1:2016)

This European Standard was approved by CENELEC on 2016-08-10. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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European Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

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European foreword

The text of document 106/361/FDIS, future edition 2 of IEC 62209-1 prepared by IEC/TC 106X "Methods for the assessment of electric, magnetic and electromagnetic fields associated with human exposure" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62209-1:2016.

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-08-10

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Annex ZA
(normative)**Normative references to international publications
with their corresponding European publications**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here:
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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO/IEC 17025	2005	General requirements for the competence of testing and calibration laboratories	EN ISO/IEC 17025	2005
ISO/IEC 17043	2010	Conformity assessment - General requirements for proficiency testing	EN ISO/IEC 17043	2010

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INTRODUCTION

IEC TC 106 has the scope to prepare International Standards on measurement and calculation methods used to assess human exposure to electric, magnetic and electromagnetic fields. IEC TC 106 has developed this part of IEC 62209 to provide procedures to evaluate the specific absorption rate (SAR) of human exposures due to electromagnetic field (EMF) transmitting devices when held close to the ear. The types of devices include but are not limited to mobile telephones, cordless telephones, headphones, etc., which are used close to the ear. The IEC TC 106 standards do not deal with the exposure limits. Conformity assessment depends on the policy of national regulatory bodies. While basic restrictions on SAR in the ICNIRP Guidelines [64]¹ go up to 10 GHz, the frequency range for this part of IEC 62209 is limited to an upper end frequency of 6 GHz since current wireless handsets operate below this frequency.

IEC TC 106 and IEEE/ICES TC34² worked together formally through common membership to achieve the goal of harmonization, between IEC TC 106 Maintenance Team 1 for this part of IEC 62209 and IEEE/ICES TC34 for IEEE Std 1528 [66]. During the process a primary effort involved was to harmonize these two standards.

To aid the user of this part of IEC 62209, a quick start guide has been prepared and included as an informative annex (see Annex O). The quick start guide is not a substitute for following the detailed procedure of the standard.

¹ Numbers in square brackets refer to the Bibliography.

² The International Committee on Electromagnetic Safety of the IEEE.