
Meritve enosmernih magnetnih polj, izmeničnih magnetnih in električnih polj v območju od 1 Hz do 100 kHz z vidika izpostavljenosti ljudi - 1. del: Zahteve za instrumente - Dopolnilo A1

Measurement of DC magnetic, AC magnetic and AC electric fields from 1 Hz to 100 kHz with regard to exposure of human beings - Part 1: Requirements for measuring instruments

Messung von magnetischen Gleichfeldern und von elektrischen und magnetischen Wechselfeldern von 1 Hz bis 100 kHz im Hinblick auf die Exposition von Personen - Teil 1: Anforderungen an Messgeräte

Mesure de champs magnétiques continus et de champs magnétiques et électriques alternatifs dans la plage de fréquences de 1 Hz à 100 kHz dans leur rapport à l'exposition humaine - Partie 1: Exigences applicables aux instruments de mesure

Ta slovenski standard je istoveten z: EN 61786-1:2014/prA1:2023

ICS:

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
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SIST EN 61786-1:2014/oprA1:2023 en



106/599/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: IEC 61786-1/AMD1 ED1	
DATE OF CIRCULATION: 2023-03-24	CLOSING DATE FOR VOTING: 2023-06-16
SUPERSEDES DOCUMENTS: 106/567/CD, 106/595/CC	

IEC TC 106 : METHODS FOR THE ASSESSMENT OF ELECTRIC, MAGNETIC AND ELECTROMAGNETIC FIELDS ASSOCIATED WITH HUMAN EXPOSURE	
SECRETARIAT: Germany	SECRETARY: Mr Alexander Prokop
OF INTEREST TO THE FOLLOWING COMMITTEES: TC 9,TC 27,TC 29,TC 34,SC 62A,SC 62B,TC 69,TC 77,TC 78,TC 96,TC 100,TC 124,TC 125,CISPR,ACEC	PROPOSED HORIZONTAL STANDARD: <input checked="" type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input checked="" type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING Attention IEC-CENELEC parallel voting The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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- any relevant "in some countries" clauses to be included should this proposal proceed. Recipients are reminded that the enquiry stage is the final stage for submitting "in some countries" clauses. See AC/22/2007.

TITLE:

Amendment 1 - Measurement of DC magnetic, AC magnetic and AC electric fields from 1 Hz to 100 kHz with regard to exposure of human beings - Part 1: Requirements for measuring instruments

PROPOSED STABILITY DATE: 2032

NOTE FROM TC/SC OFFICERS:

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[SIST EN 61786-1:2014/oprA1:2023](https://standards.iteh.ai/catalog/standards/sist/ab0180a3-fe05-41fe-9a8d-659d837a2a1a/sist-en-61786-1-2014-opra1-2023)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**AMENDMENT 1 TO IEC 61786-1: MEASUREMENT OF DC MAGNETIC,
AC MAGNETIC AND AC ELECTRIC FIELDS FROM 1 Hz TO 100 kHz
WITH REGARD TO EXPOSURE OF HUMAN BEINGS**

Part 1: Requirements for measuring instruments

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This amendment has been prepared IEC technical committee 106: Methods for the assessment of electric, magnetic and electromagnetic fields associated with human exposure.

The text of this amendment is based on the following documents:

Draft	Report on voting
XX/XX/FDIS	XX/XX/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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- withdrawn,
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1 **AMENDMENT 1 TO IEC 61786-1: MEASUREMENT OF DC MAGNETIC,**
2 **AC MAGNETIC AND AC ELECTRIC FIELDS FROM 1 Hz TO 100 kHz**
3 **WITH REGARD TO EXPOSURE OF HUMAN BEINGS**

4
5 **Part 1: Requirements for measuring instruments**
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9 **5.4 Pass-band**

10 *Replace the penultimate sentence by*

11 This range is not as broad as the pass band but shall be still broad enough to cover all
12 frequencies of interest.

13 **5.7 Readability of scale**

14 *Delete the first paragraph.*

15 *Delete the first sentence of the last paragraph.*

16 **5.8.1 General schema**

17 *Replace title of Figure 1 by*

18 **Figure 1 - Schematic of a field meter**

19 *Replace the paragraph below Figure 1 by*

20 The probes should be three-axis. For the weighting peak method (see IEC 61786-2 clause
21 4.2.3), three-axis probes shall be used.

22 **5.8.4 Support for electric field meter**

23 *Replace the first paragraph by*

24 The support for the electric field meter shall be made of insulating materials, such synthetic or
25 composite materials, or wood. Wood can be used only for the low humidity condition.

26 **5.9.1 Immunity**

27 c) radiated electromagnetic fields

28 *Replace the first paragraph by*

29 The operation of instrumentation shall not be affected by electromagnetic radiation for
30 frequencies defined in IEC 61000-6-1 for an electric field of 3 V/m rms for frequencies between
31 80 MHz and 6 GHz.

32 *Delete NOTE 2.*

33 *Renumber NOTE 3 by NOTE 2.*

34 **5.9.2 Emissions**

35 b) Conducted disturbances – 0,15 MHz to 30 MHz (instrumentation connected to AC power
36 supply)