SLOVENSKI STANDARD
oSIST prEN 50385:2026

01-december-2026

Produktni standard za prikaz skladnosti opreme baznih postaj z mejnimi vrednostmi v povezavi z izpostavljenostjo elektromagnetnim sevanjem (110 MHz - 300 GHz), ko je dana na trg

Product standard to demonstrate the compliance of a base station with radiofrequency electromagnetic field exposure limits (110 MHz - 300 GHz), when placed on the market

Produktnorm zum Nachweis der Übereinstimmung von Einrichtungen für Basisstationen bei ihrer Inverkehrbringung mit Grenzwerten für die Exposition von Personen gegenüber hochfrequenten elektromagnetischen Feldern (110 MHz bis 100 GHz)

Norme de produit pour démontrer la conformité d'une station de base aux limites d'exposition aux champs électromagnétiques radiofréquences (110 MHz - 300 GHz), lors de leur mise sur le marché

Ta slovenski standard je istoveten z: **prEN 50385:2026**

ICS:

13.280	Varstvo pred sevanjem	Radiation protection
33.120.40	Antene	Aerials

oSIST prEN 50385:2026 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
prEN 50385

October 2026

ICS 33.120.40

Will supersede EN 50385:2017

English Version

Product standard to demonstrate the compliance of a base station with radiofrequency electromagnetic field exposure limits (110 MHz - 300 GHz), when placed on the market

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This draft European Standard is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2027-01-15.

It has been drawn up by CLC/TC 106X.

Sample Document

If this draft becomes a European Standard, 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.

This draft European Standard was established by CENELEC in three official versions (English, French, German).
A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (prEN 50385:2026) has been prepared by CLC/TC 106X “Electromagnetic fields in the human environment”.

This document is currently submitted to the Enquiry

The following dates are proposed:

— latest date by which the existence of this document has to be announced at national level	(doa)	dav + 6 months
— latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	dav + 12 months
— latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	dav + 36 months (to be confirmed or modified when voting)

This document will supersede EN 50385:2017.

prEN 50385:2026 includes the following significant technical changes with respect to EN 50385:2017:

— updates for compatibility with EN IEC 62232:2025, including an extended frequency range up to 300 GHz (Clause 1) and specifications for the implementation of the actual maximum approach (Clause 6);

— updates about uncertainty assessment (Clause 7);

— inclusion of exposure limits in normative Annex A and Annex B.

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This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZZ, which is an integral part of this document.

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1 Scope

This document is related to human exposure to radiofrequency (RF) electromagnetic fields transmitted by a base station (BS), operating in the frequency range 110 MHz to 300 GHz. It specifies the methods to assess the compliance of exposure from a BS with the general public basic restrictions, directly or indirectly via compliance with reference levels, and the workers' exposure limit values, directly or indirectly via compliance with action levels, when the BS is placed on the market.

The term "product" is used in the same sense as BS in this document.

2 Normative references

EN IEC 62232:2025, *Determination of RF field strength, power density and SAR in the vicinity of base stations for the purpose of evaluating human exposure (IEC 62232:2025)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
action level
level which is provided for practical exposure assessment purpose and which is derived from an exposure limit value

Note 1 to entry: Respect of the action level will ensure respect of the relevant exposure limit value. If the action level is exceeded, it does not necessarily follow that the exposure limit value will be exceeded.

3.2
actual
<transmitted power or EIRP or exposure> time-average of the transmitted power or EIRP or exposure from the equipment under test (EUT) in operation using the actual averaging time

[SOURCE: EN IEC 62232:2025]

3.3
actual maximum
<transmitted power or EIRP or exposure> maximum of the actual transmitted power or EIRP or exposure from the product during a given period (e.g. week or month)

[SOURCE: EN IEC 62232:2025]

3.4
antenna
device that serves as a transducer between a guided wave (e.g. coaxial cable) and a free space wave, or vice versa, and that can be used either to emit or to receive a radio signal

Note 1 to entry: In the present standard, if not mentioned, the term antenna is used only for emitting antenna(s).

3.5
base station
BS
radio equipment, permanently or temporarily installed, including the radio transmitter and associated antenna(s) as used in wireless telecommunications networks

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