

# SLOVENSKI STANDARD

## SIST EN 50360:2001

01-december-2001

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**Produktni standard za dokazovanje ustreznosti mobilnih telefonov osnovnim omejitvam glede izpostavljenosti človeka elektromagnetnim poljem (300 MHz - 3 GHz) (vsebuje popravek AC:2006)**

Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz - 3 GHz)

Produktnorm zum Nachweis der Übereinstimmung von Mobiltelefonen mit den Basisgrenzwerten hinsichtlich der Sicherheit von Personen in elektromagnetischen Feldern (300 MHz bis 3 GHz) (standards.iteh.ai)

Norme de produit pour la mesure de conformité des téléphones mobiles aux restrictions de base relatives à l'exposition des personnes aux champs électromagnétiques (300 MHz - 3 GHz)

**Ta slovenski standard je istoveten z: EN 50360:2001**

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**ICS:**

33.060.01	Radijske komunikacije na splošno	Radiocommunications in general
33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general

**SIST EN 50360:2001** en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 50360**

July 2001

ICS 33.060.01;33.100.01

Incorporates Corrigendum July 2006

English version

**Product standard to demonstrate the compliance of mobile phones  
with the basic restrictions related to human exposure  
to electromagnetic fields (300 MHz - 3 GHz)**

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This European Standard was approved by CENELEC on 2001-07-03. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 211, Electromagnetic fields in the human environment.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50360 on 2001-07-03.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2002-03-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2003-03-01

The contents of the corrigendum of July 2006 have been included in this copy.

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## 1 Scope

This product standard applies to any transmitting devices intended to be used with the radiating part of the equipment in close proximity to the human ear (e.g. mobile phones, cordless phones, etc.). The frequency range covered is 300 MHz to 3 GHz.

The object of this standard is to demonstrate the compliance of such equipment with the basic restrictions related to human exposure to radio frequency electromagnetic fields.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 62209-1:2006, *Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures -- Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)* (IEC 62209-1:2005)

Council Recommendation 1999/519/EC of 12 July 1999 *on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)* (Official Journal L 197 of 30 July 1999).

International Commission on Non-Ionising Radiation Protection (1998), *Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)*. Health Physics 74, 494-522.

## 3 Definitions

For the purposes of this European Standard, the following definitions apply.

### 3.1.1

#### **basic restrictions**

restrictions on exposure to time-varying electric, magnetic, and electromagnetic fields that are based directly on established health effects. Concerning the frequency range of this standard, the physical quantity used is the Specific Absorption Rate (SAR)

### 3.1.2

#### **mobile phone**

for the purpose of this standard, the term "mobile phone" covers the equipment within the scope of this standard

### 3.1.3

#### **Specific Absorption Rate (SAR)**

physical quantity in which the basic restrictions of protection guidelines are defined in the frequency range specified in the scope

#### 4 Exposure limits

The mobile phone shall comply with the basic restriction as specified in Council Recommendation 1999/519/EC on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz), annex II.

Alternatively the limit as stated in the ICNIRP Guidelines [April 1998] may be applied.

#### 5 Measurement method

SAR measurements shall be performed according to EN 62209-1.

#### 6 Evaluation of compliance to limits

If the average power emitted by the mobile phone is less than or equal to 20 mW, then the mobile phone is deemed to comply with the basic restrictions without testing.

If the average power emitted by the mobile phone is more than 20 mW, then SAR measurements shall be performed according to clause 5. The results of measurements shall be compared directly to the limit. The equipment is deemed to fulfil the requirements of this standard if the measured values are less than or equal to the limit.

NOTE In the setting of basic restrictions and the specification of the measurement method, safety factors have been taken into account. This is the reason for not requiring that the measured values shall be compared to the limit reduced by the measurement uncertainty.

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