



BSI Standards Publication

**Product standard to demonstrate compliance of radio frequency fields from handheld and body-mounted wireless communication devices used by the general public (30 MHz — 6 GHz)**

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

**National foreword**

This British Standard is the UK implementation of EN 50566:2013.

The UK participation in its preparation was entrusted to Technical Committee GEL/106, Human exposure to low frequency and high frequency electromagnetic radiation.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2013. Published by BSI Standards Limited 2013

ISBN 978 0 580 76655 8

ICS 17.240; 33.070.01

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2013.

**Amendments issued since publication**

Date	Text affected
------	---------------

---

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

# EN 50566

March 2013

ICS 17.240; 33.070.01

English version

## **Product standard to demonstrate compliance of radio frequency fields from handheld and body-mounted wireless communication devices used by the general public (30 MHz - 6 GHz)**

Norme produit pour démontrer la conformité des champs radiofréquence produits par les dispositifs de communication sans fil tenus à la main ou portés près du corps (30 MHz - 6 GHz)

Produktnorm zum Nachweis der Übereinstimmung von hochfrequenten Feldern von handgehaltenen und am Körper getragenen schnurlosen Kommunikationsgeräten, die durch die Allgemeinbevölkerung verwendet werden (30 MHz bis 6 GHz)

This European Standard was approved by CENELEC on 2013-02-11. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## CENELEC

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

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## Contents

<b>Foreword .....</b>	<b>3</b>
<b>1 Scope .....</b>	<b>4</b>
<b>2 Normative references .....</b>	<b>4</b>
<b>3 Terms and definitions .....</b>	<b>4</b>
<b>4 Exposure Limits .....</b>	<b>5</b>
<b>5 Measurement method .....</b>	<b>5</b>
<b>6 Documentation .....</b>	<b>5</b>
<b>7 Evaluation of compliance to limits .....</b>	<b>6</b>
<b>Bibliography .....</b>	<b>7</b>

## Foreword

This document (EN 50566:2013) has been prepared by CLC/TC 106X, "Electromagnetic fields in the human environment".

The following dates are 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) 2014-02-11
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2016-02-11

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

---

## 1 Scope

This European Standard applies to any wireless communication devices intended to be used with the radiating part in close proximity to the human body (i.e. less than 200 mm) including devices operated in front of the face. The frequency range covered is 30 MHz to 6 GHz.

The objective of this product standard is to demonstrate the compliance of such devices with the basic restrictions related to general public exposure to radio frequency electromagnetic fields.

Devices used next to the ear are covered by EN 50360.

Low power exclusion criteria are specified in EN 62479.

## 2 Normative references

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.

EN 62209-2:2010, *Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices — Human models, instrumentation, and procedures — Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) (IEC 62209-2:2010 + corrigendum 2010)*

EN 62479:2010, *Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz) (IEC 62479:2010, modified)*

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 199 of 30 July 1999)

## 3 Terms and definitions

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

### 3.1

#### **basic restrictions**

restrictions on exposure to time-varying electric, magnetic, and electromagnetic fields that are based directly on established health effects

Note 1 to entry: Concerning the frequency range of this standard, the physical quantity used is the Specific Absorption Rate (SAR).

### 3.2

#### **wireless communication devices**

equipment within the scope of this standard

Note 1 to entry: Categorisation of the devices covered by the scope of this product standard is given in Clause 3 (Terms and definitions) of EN 62209-2:2010.