
Osnovni standard za merjenje in izračunavanje izpostavljenosti ljudi električnim, magnetnim poljem in elektromagnetnim sevanjem (0 Hz - 300 GHz) - Dopnilo A1

Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz)

Grundnorm zu Mess- und Berechnungsverfahren der Exposition von Personen in elektrischen, magnetischen und elektromagnetischen Feldern (0 Hz bis 300 GHz)

Norme de base pour les procédures de mesures et de calculs pour l'exposition des personnes aux champs électriques, magnétiques et électromagnétiques (0 Hz - 300 GHz)

<https://standards.iteh.ai/catalog/standards/sist/46105b84-58c1-4754-90b5-0b30bc3678/sist-en-50413-2009-a1-2014>

Ta slovenski standard je istoveten z: EN 50413:2008/A1:2013

ICS:

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general

SIST EN 50413:2009/A1:2014**en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 50413:2009/A1:2014

<https://standards.iteh.ai/catalog/standards/sist/46105b84-58c1-4754-90b5-0b30bcdc3678/sist-en-50413-2009-a1-2014>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 50413/A1

October 2013

ICS 17.220.20; 33.100.01

English version

Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz)

Norme de base pour les procédures de mesures et de calculs pour l'exposition des personnes aux champs électriques, magnétiques et électromagnétiques (0 Hz - 300 GHz)

Grundnorm zu Mess- und Berechnungsverfahren der Exposition von Personen in elektrischen, magnetischen und elektromagnetischen Feldern (0 Hz bis 300 GHz)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

This amendment A1 modifies the European Standard EN 50413:2008; it was approved by CENELEC on 2013-09-02. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Contents

Page

Foreword	3
1 Modification to Table D.2	4

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 50413:2009/A1:2014](https://standards.iteh.ai/catalog/standards/sist/46105b84-58c1-4754-90b5-0b30bc3678/sist-en-50413-2009-a1-2014)

<https://standards.iteh.ai/catalog/standards/sist/46105b84-58c1-4754-90b5-0b30bc3678/sist-en-50413-2009-a1-2014>

Foreword

This document (EN 50413:2008/A1:2013) has been prepared by CLC/TC 106X "Electromagnetic fields in the human environment".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-09-02
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2016-09-02

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.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 50413:2009/A1:2014

<https://standards.iteh.ai/catalog/standards/sist/46105b84-58c1-4754-90b5-0b30bc3678/sist-en-50413-2009-a1-2014>

1 Modification to Table D.2

Replace Table D.2 by the following corrected table:

Table D.2 – Relationship between carrier, mean and peak power for the most usual modulation types in the case of maximum modulated signal

Type of transmission		Carrier power P_C			Mean power P_M			Peak envelope power P_P		
Main parameter	Example	Factor for the determination of								
		P_C	P_M	P_P	P_C	P_M	P_P	P_C	P_M	P_P
A 1 A	AM telegraph	1	0,5	1	2	1	2	1	0,5	1
A 1 B		1	0,5	1	2	1	2	1	0,5	1
A * ^c C	AM sound	1	1,5	4	0,67	1	2,67	0,25	0,38	1
A * ^c E		1	1,5	4	0,67	1	2,67	0,25	0,38	1
B * ^c B ^b	AM independent sidebands	-	-	-	-	1	1	-	1	1
B * ^c E ^b		-	-	-	-	1	1	-	1	1
B * ^c W ^b		-	-	-	-	1	1	-	1	1
C * ^c F ^a	AM-TV Negative Modulation CCIR, OIRT	-	-	-	-	1	1,85	-	0,54	1
F * ^c * ^c	FM	1	1	1	1	1	1	1	1	1
H * ^c A	SSB full carrier	1	2	4	0,5	1	2	0,25	0,5	1
H * ^c B		1	2	4	0,5	1	2	0,25	0,5	1
H * ^c E		1	2	4	0,5	1	2	0,25	0,5	1
J * ^c B ^g	SSB suppressed carrier	0	-	-	0	1	2	0	0,5	1
J * ^c C ^g		0	-	-	0	1	1	0	1	1
J * ^c E ^g		0	-	-	0	1	2	0	0,5	1
K * ^c A	pulse	1	1,5	4/d	0,67	1	2,67/d	0,25d	0,38d	1
K * ^c E ^f		1	1,5	4/d	0,67	1	2,67/d	0,25d	0,38d	1
L * ^c A	pulse length	1	1	1/d	1	1	1/d	d	d	1
L * ^c E		1	1	1/d	1	1	1/d	d	d	1
M * ^c A ^f		1	1	1/d	1	1	1/d	d	d	1
M * ^c E		1	1	1/d	1	1	1/d	d	d	1
P * ^c N		1	1	1/d	1	1	1/d	d	d	1
R * ^c B ^b	SSB reduced/var. carrier	-	-	-	-	1	1	-	1	1
R * ^c C ^b		-	-	-	-	1	1	-	1	1
R * ^c E ^b		-	-	-	-	1	1	-	1	1
W * ^c W ^d	DRM	1	1	C	1	1	C	1/C	1/C	1
G * ^c W ^d	DAB	1	1	C	1	1	C	1/C	1/C	1
W * ^c W ^d	DVB-T	1	1	C	1	1	C	1/C	1/C	1
X * ^c W ^e	DRM+AM	1	1,5	4	0,67	1	2,67	0,25	0,38	1

a Carrier power P_C not clearly defined.
b It is assumed that the carrier is almost totally suppressed and that in the case of modulation with a tone in a sideband the peak power of the transmitter can be reached.
c Symbol not relevant for assessment.
d The crest factor C describes the power ratio between maximum transmitted peak power and whole channel power measured over the whole channel bandwidth (generally 1,5 MHz for DAB and 8 MHz for DVB). If C is given as voltage ratio (peak to mean voltage) it has to be divided by two or diminished by 3 dB.
e Both A3E and W7W in one channel.
f d = pulse duty factor.
g It is assumed that the carrier is almost totally suppressed