

Irish Standard I.S. EN 61260-1:2014

Electroacoustics - Octave-band and fractional-octave-band filters - Part 1: Specifications

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I.S. EN 61260-1:2014

2014-07-18

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EUROPEAN STANDARD

EN 61260-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2014

ICS 17.140.50

Supersedes EN 61260:1995

English Version

Electroacoustics - Octave-band and fractional-octave-band filters - Part 1: Specifications (IEC 61260-1:2014)

Electroacoustique - Filtres de bande d'octave et de bande d'une fraction d'octave - Partie 1: Spécifications (CEI 61260-1:2014)

Elektroakustik - Bandfilter für Oktaven und Bruchteile von Oktaven - Teil 1: Anforderungen (IEC 61260-1:2014)

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- 2 -

Foreword

The text of document 29/835/FDIS, future edition 1 of IEC 61260-1, prepared by IEC/TC 29 "Electroacoustics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61260-1:2014.

The following dates are fixed:

 latest date by which the document has (dop) 2014-12-21 to be implemented at national level by publication of an identical national standard or by endorsement

 latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-03-21

This document supersedes EN 61260:1995.

EN 61260-1:2014 includes the following significant technical changes with respect to EN 61260:1995:

- a) the single document in the first edition of EN 61260:1995 is in EN 61260 series separated into the three parts covering: specifications, pattern evaluation tests and periodic tests;
- b) the EN 61260:1995 specified three performance categories: classes 0, 1 and 2. The EN 61260 series specifies requirements for class 1 and 2;
- c) in the EN 61260:1995, the design goals for the specification can be based on base-2 or base 10 design. In EN 61260 series only base-10 is specified;
- d) the reference environmental conditions have been changed from 20 $^{\circ}$ C / 65 $^{\circ}$ RH to 23 $^{\circ}$ C / 50 $^{\circ}$ RH;
- e) EN 61260:1995 specified tolerance limits without considering the uncertainty of measurement for verification of the specifications. EN 61260 series specifies acceptance limits for the observed values and maximum-permitted uncertainty of measurements for laboratories testing conformance to specifications in the standard.

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

CISPR 16-1-1:2010 NOTE Harmonised as EN 55016-1-1:2010.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here:

www.cenelec.eu Publication	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 61000-4-2	-	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques		-
IEC 61000-4-3	2006	 Electrostatic discharge immunity test Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques 		2006
		- Radiated, radio-frequency, electromagnetic field immunity test		
IEC 61000-6-1	2005	Electromagnetic compatibility (EMC) Par 6-1: Generic standards - Immunity for	rtEN 61000-6-1	2007
		residential, commercial and light-industrial environments		
IEC 61000-6-2	2005	Electromagnetic compatibility (EMC) Par 6-2: Generic standards - Immunity for	rtEN 61000-6-2	2005
		industrial environments	+	2005
IEC 61000-6-3	2006	Electromagnetic compatibility (EMC) Par 6-3: Generic standards - Emission	rtEN 61000-6-3	2007
		standard for residential, commercial and light-industrial environments		
IEC 61672-1	-	Electroacoustics - Sound level meters Part 1: Specifications	EN 61672-1	-
ISO/IEC Guide 98-3 -		Uncertainty of measurement Part 3: Guide to the expression of uncertainty in	-	-
ISO/IEC Guide 98-	4 2012	measurement (GUM:1995) Uncertainty of measurement Part 4: Role	9-	-
		of measurement uncertainty in conformity assessment		
CISPR 22 (mod)	2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	EN 55022	2010
		methods of measurement	+AC	2011

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IEC 61260-1

Edition 1.0 2014-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electroacoustics – Octave-band and fractional-octave-band filters – Part 1: Specifications

Électroacoustique – Filtres de bande d'octave et de bande d'une fraction d'octave –

Partie 1: Spécifications





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IEC 61260-1

Edition 1.0 2014-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electroacoustics – Octave-band and fractional-octave-band filters – Part 1: Specifications

Électroacoustique – Filtres de bande d'octave et de bande d'une fraction d'octave –

Partie 1: Spécifications

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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-2-

CONTENTS

FOR	KEWORD				
INTF	RODUCT	ION		6	
1	Scope			7	
	-	ormative references			
3	Terms a	nd definition	ons	8	
	Reference	ce environ	mental conditions	12	
	5.1	•			
	5.2		equency ratio		
	5.3		e frequency		
	5.4		I-band frequencies		
	5.5		nid-band frequencies		
	5.6		je frequencies		
	5.7	_	raged signal levels		
	5.8		nuation		
	5.9		e attenuation		
	5.10		attenuation		
	5.11		ed effective bandwidth		
	5.12		bandwidth deviation		
	5.13		erating range		
	5.13 Linear operating range				
	5.15 Anti-alias filters				
	5.16		on of output signals		
	5.17	· · ·			
	5.18	Filter decay time			
	5.19	Maximum input signal			
	5.20	· · ·			
	5.21				
	5.22		y to various environments		
			General		
		5.22.2	Ambient air temperature and relative humidity		
	5.23	-	atic-discharge and electromagnetic-compatibility requirements		
		5.23.1	General		
		5.23.2	Electrostatic discharges		
		5.23.3	Immunity to power-frequency and radio-frequency fields		
		5.23.4	Emission limits		
6	Instrume	nt marking	g	25	
7 Instruction manual			_		
•	7.1				
	7.2	Operation			
	7.3	-			
Anna		_	Relationship between tolerance interval, corresponding	21	
			d the maximum-permitted uncertainty of measurement	28	
	•		Maximum-permitted expanded uncertainties of measurement		
			Examples of conformance assessment to specifications of this		
				30	

C.1	General	30
C.2	Conformance criteria	30
C.3	Example test results	31
Annex D (in	formative) Base 2 filters	33
Annex E (no	ormative) Nominal mid-band frequencies	34
E.1	Mid-band frequencies for octave-band and one-third-octave-band filters	34
E.2	Mid-band frequencies for one-half-octave-band filters	34
E.3	Mid-band frequencies for other bandwidths	34
	formative) Normalized frequencies at breakpoints of acceptance limits on distribution distribution maximum relative attenuation for one-third-octave-band filters	36
Annex G (in	formative) Filter response to exponentially swept sinusoidal signals	38
G.1	Exponential frequency sweep	38
G.2	Response of set of band-pass filters to a sweep	
Annex H (in	formative) Measurement of filter decay time	41
H.1	General	41
H.2	Measurement of filter decay time	41
	H.2.1 Instruments with the capability to measure reverberation time	41
	H.2.2 Instruments without the capability to measure reverberation	
	time	
Bibliography	/	43
Figure 1 $-$ M for class 1 a	Ninimum and maximum limits on relative attenuation as a function of $f\!/\!f_{m}$ and class 2 octave-band filters	17
	Relationship between tolerance interval, corresponding acceptance the maximum-permitted uncertainty of measurement	28
	•	
•	- Examples of conformance assessment	32
	- Relation between the logarithmic frequency scale and the linear time the exponential sweep	40
Scale due to	The exponential sweep	
Table 1 – Ad	cceptance limits on relative attenuation for octave-band filters	15
	mits for radiated disturbance of class B Information Technology Equipment stance of 10 m	25
` '	mits for conducted disturbance to the voltage of a public supply of electric	
		25
Table B.1 –	Maximum-permitted expanded uncertainties of measurement	29
Table C.1 –	Examples of conformance assessment	31
Table E.1 –	Mid-band frequencies for octave-band and one-third-octave-band filters in nge	
	Acceptance limits on relative attenuation for one-third-octave-band filters	
	Acceptance inities on relative attenuation for one-time-octave-pand inters	

-4 -

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROACOUSTICS – OCTAVE-BAND AND FRACTIONAL-OCTAVE-BAND FILTERS –

Part 1: Specifications

FOREWORD

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International Standard IEC 61260-1 has been prepared by IEC technical committee 29: Electroacoustics.

This first edition of IEC 61260-1, future IEC 61260-2 and future IEC 61260-3, cancel and replace the first edition of IEC 61260 published in 1995, and Amendment 1:2001. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the IEC 61260:

- a) the single document in the first edition of IEC 61260:1995 is in IEC 61260 series separated into the three parts covering: specifications, pattern evaluation tests and periodic tests;
- b) the IEC 61260:1995 specified three performance categories: classes 0, 1 and 2. The IEC 61260 series specifies requirements for class 1 and 2;
- c) in the IEC 61260:1995, the design goals for the specification can be based on base-2 or base 10 design. In IEC 61260 series only base-10 is specified;

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- 5 -

- d) the reference environmental conditions have been changed from 20 $^{\circ}$ C / 65 $^{\circ}$ RH to 23 $^{\circ}$ C / 50 $^{\circ}$ RH;
- e) IEC 61260:1995 specified tolerance limits without considering the uncertainty of measurement for verification of the specifications. IEC 61260 series specifies acceptance limits for the observed values and maximum-permitted uncertainty of measurements for laboratories testing conformance to specifications in the standard.

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

FDIS	Report on voting	
29/835/FDIS	29/839/RVD	

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 61260 series, published under the general title *Electroacoustics – Octave-band and fractional-octave-band filters* can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- · reconfirmed.
- withdrawn,
- · replaced by a revised edition, or
- amended.

- 6 -

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INTRODUCTION

IEC 61260:1995 and its Amendment 1:2001 are now separated into the following three parts of IEC 61260 series:

- Part 1: Specifications
- Part 2: Pattern evaluation tests (under consideration)
- Part 3: Periodic tests (under consideration)

For assessments of conformance to performance specifications, IEC 61260-1 uses different criteria than were used for the IEC 61260:1995 edition.

IEC 61260:1995 did not provide any requirements or recommendations to account for the uncertainty of measurement in assessments of conformance to specifications. This absence of requirements or recommendations to account for uncertainty of measurement created ambiguity in determinations of conformance to specifications for situations where a measured deviation from a design goal was close to a limit of the allowed deviation. If conformance was determined based on whether a measured deviation did or did not exceed the limits, the enduser of the octave-band and fractional-octave-band filters incurred the risk that the true deviation from a design goal exceeded the limits.

To remove this ambiguity, IEC Technical Committee 29, at its meeting in 1996, adopted a policy to account for measurement uncertainty in assessments of conformance in International Standards that it prepares.

This first edition of IEC 61260-1 uses an amended criterion for assessing conformance to a specification. Conformance is demonstrated when (a) measured deviations from design goals do not exceed the applicable *acceptance limits* and (b) the uncertainty of measurement does not exceed the corresponding maximum-permitted uncertainty. Acceptance limits are analogous to the tolerance limits allowances for design and manufacturing implied in the IEC 61260:1995.

Actual and maximum-permitted uncertainties of measurement are determined for a coverage probability of 95 %. Unless more-specific information is available, the evaluation of the contribution of a specific filter or filter set to a total measurement uncertainty can be based on the acceptance limits and maximum-permitted uncertainties specified in this standard.

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-7-

ELECTROACOUSTICS – OCTAVE-BAND AND FRACTIONAL-OCTAVE-BAND FILTERS –

Part 1: Specifications

1 Scope

- 1.1 This part of the IEC 61260 series specifies performance requirements for analogue, sampled-data, and digital implementations of band-pass filters. The extent of the pass-band region of a filter's relative attenuation characteristic is a constant percentage of the exact midband frequency for all filters of a given bandwidth. An instrument conforming to the requirements of this standard may contain any number of contiguous band-pass filters covering any desired frequency range.
- **1.2** Performance requirements are provided for two filter classes: class 1 and class 2. In general, specifications for class 1 and class 2 filters have the same design goals and differ mainly in the acceptance limits and the range of operational temperature. Acceptance limits for class 2 are greater than, or equal to, those for class 1. Maximum-permitted expanded uncertainties of measurement are also specified.
- **1.3** Performance requirements are given for designs where the octave frequency ratio and the mid-band frequencies are powers of ten.
- **1.4** Band-pass filters conforming to the performance requirements of this standard may be part of various measurement systems or may be an integral component of a specific instrument such as a spectrum analyser.
- **1.5** This standard specifies the ranges of environmental conditions for operation of the filters. The required range depends on whether the instrument containing the filters is designed to be operated in a controlled environment or more generally in the field.
- 1.6 Band-pass filters conforming to the requirements of this standard are capable of providing frequency-band-filtered spectral information for a wide variety of signals, for example, time-varying, intermittent or steady; broadband or discrete frequency; and long or short durations.

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.

IEC 61000-4-2, Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test

IEC 61000-4-3:2006, Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test

IEC 61000-6-1:2005, Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments



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