

Electroacoustics - Octave-band and
fractional-octave-band filters - Part 3: Periodic tests

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 61260-3:2016 sisaldab Euroopa standardi EN 61260-3:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 61260-3:2016 consists of the English text of the European standard EN 61260-3:2016.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

**Electroacoustics - Octave-band and fractional-octave-band filters
- Part 3: Periodic tests
(IEC 61260-3:2016)**

Electroacoustique - Filtres de bande d'octave et de bande
d'une fraction d'octave - Partie 3: Essais périodiques
(IEC 61260-3:2016)

Elektroakustik - Bandfilter für Oktaven und Bruchteile von
Oktaven - Teil 3: Periodische Einzelprüfung
(IEC 61260-3:2016)

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

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European foreword

The text of document 29/846/CDV, future edition 1 of IEC 61260-3, prepared by IEC TC 29, Electroacoustics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61260-3:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-01-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-04-27

This document supersedes EN 61260:1995.

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Endorsement notice

The text of the International Standard IEC 61260-3:2016 was approved by CENELEC as a European Standard without any modification.

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61260-1	2014	Electroacoustics - Octave-band and fractional-octave-band filters -- Part 1: Specifications	EN 61260-1	2014
IEC 61260-2	2016	Electroacoustics - Octave-band and fractional-octave-band filters - Part 2: Pattern-evaluation tests	EN 61260-2	2016
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 measurement (GUM:1995)	-	-
ISO/IEC Guide 98-4	-	Uncertainty of measurement -- Part 4: Role of measurement uncertainty in conformity assessment	-	-

CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	7
4 Submission for testing	7
5 Conformance	7
6 Preliminary inspection.....	8
7 Power supply.....	8
8 Environmental conditions	8
9 Mandatory facilities and general requirements	8
9.1 General.....	8
9.2 Test instruments	10
10 Test of relative attenuation at midband frequency or effective bandwidth deviation.....	10
10.1 General.....	10
10.2 Tests of relative attenuation at midband frequency.....	10
10.3 Test of effective bandwidth deviation	10
11 Linear operating range, measurement range, level range control and overload indicator	11
12 Test of lower limit of linear operating range	12
13 Measurement of relative attenuation.....	12
14 Documentation	13
Annex A (informative) Uncertainty related to test by sinusoidal sweeps	16
A.1 General.....	16
A.2 Digitally generated signal	16
A.3 Test signal from a signal generator.....	17
A.4 Comparing measurements.....	18
Annex B (informative) Test of effective bandwidth deviation with the use of an exponential sweep – Example	19
B.1 General.....	19
B.2 Example.....	19
Annex C (informative) Normalized frequencies for test of one-third-octave-band filters	21
C.1 General.....	21
C.2 Example calculation	21
Bibliography	23
Table 1 – Frequency parameter R and acceptance limits on relative attenuation for fractional-octave-band filters	13
Table C.1 – Normalized test frequencies and acceptance limits on relative attenuation for one-third-octave-band filters	22

INTRODUCTION

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

- Part 1: Specifications
- Part 2: Pattern evaluation tests
- Part 3: Periodic tests

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 the limit of the allowed deviation. If conformance was determined based on whether a measured deviation did or did not exceed the limits, the end-user 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 edition of IEC 61260-3 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.