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Methods of measurement on radio receivers for various classes of emission - Part 4: Receivers for frequency-modulated sound broadcasting emissions

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Methods of measurement on radio receivers for various classes of emission - Part 4: Receivers for frequency-modulated sound broadcasting emissions

FOREWORD

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This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 60315-4 edition 2.1 contains the second edition (1997-11) [documents 100A/58/FDIS and 100A/60/RVD] and its amendment 1 (2025-12) [documents 100/4290/CDV and 100/4385/RVC].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 60315-4 has been prepared by IEC subcommittee 100A: Multimedia end-user equipment, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

This second edition cancels and replaces the first edition published in 1982 and constitutes a technical revision.

This part of IEC 60315 shall be read in conjunction with IEC 60315-1.

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

FDIS	Report on voting
100A/58/FDIS	100A/60/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.

Annexes A, B, C and D are for information only.

IEC 60315 consists of the following parts under the general title: Methods of measurement on radio receivers for various classes of emission:

– Part 1: 1988, General considerations and methods of measurement, including audio-frequency measurements
– Part 3: 1989, Receivers for amplitude – modulated sound broadcasting emissions
– Part 4: 1997, Receivers for frequency – modulated sound broadcasting emissions
– Part 5: 1971, Specialized radio-frequency measurements – Measurement on frequency-modulated receivers of the response to impulsive interference
– Part 6: 1991, General purpose communication receivers
– Part 7: 1995, Methods of measurement on digital satellite radio (DSR) receivers
– Part 8: 1975, Radio-frequency measurements on professional receivers for frequency-modulated telegraphy systems
– Part 9: 1996, Measurement of the characteristics relevant to radio data system (RDS) reception

The committee has decided that the contents of this document and its amendment will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

– reconfirmed,
– withdrawn, or
– revised.

1 General

1.1 Scope

This part of IEC 60315 applies to radio receivers and tuners for the reception of frequency-modulated sound-broadcasting emissions with rated maximum system deviations of ±75 kHz and ±50 kHz in ITU Band 8. It deals mainly with methods of measurement using radio-frequency signals applied to the antenna terminals of the receiver. The measurements and specified conditions of test are selected to permit the comparison of results obtained by different observers and on other receivers. Performance requirements are not specified in this standard.

Radiation and immunity tests and requirements are not included since these are described in CISPR 13 and CISPR 20.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60315. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 60315 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60098: 1987, *Analogue audio disk records and reproducing equipment*

IEC 60268-1: 1985, *Sound system equipment – Part 1: General*

IEC 60268-3: 1988, *Sound system equipment – Part 3: Amplifiers*

IEC 60315-1: 1988, *Methods of measurement on radio receivers for various classes of emission – Part 1: General considerations and methods of measurement, including audio-frequency measurements*

IEC 60315-3: 1989, *Methods of measurement on radio receivers for various classes of emission – Part 3: Receiver for amplitude-modulated sound-broadcasting emissions*

IEC 60315-7: 1995, *Methods of measurement on radio receivers for various classes of emission – Part 7: Methods of measurement on digital satellite radio (DSR) receivers*

IEC 60315-9: 1996, *Methods of measurement on radio receivers for various class of emission – Part 9: Measurement of the characteristics relevant to Radio Data System (RDS) reception*

IEC 60651: 1979, *Sound level meters*

IEC 61260: 1995, *Electroacoustics – Octave-band and fractional-octave-band filters*

CISPR 16-1: 1993, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1: Radio disturbance and immunity measuring apparatus*

CISPR 20: 1996, *Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment*

ITU-R Recommendation 468-4: 1990: *Measurement of audio-frequency*

ITU-R Recommendation 559-2: 1990: *Objective measurement of radio-frequency protection ratios in LF, MF and HF broadcasting*