

Methods of measurement for radio transmitters —

Part 12: Guideline for drawing up descriptive leaflets for transmitters and transposers for sound and television broadcasting —

Section 12.1 Characteristics to be specified

The European Standard EN 60244-12-1:1993 has the status of a
British Standard

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Cooperating organizations

The European Committee for Electrotechnical Standardization (CENELEC), under whose supervision this European Standard was prepared, comprises the national committees of the following countries:

Austria	Italy
Belgium	Luxembourg
Denmark	Netherlands
Finland	Norway
France	Portugal
Germany	Spain
Greece	Sweden
Iceland	Switzerland
Ireland	United Kingdom

This British Standard, having been prepared under the direction of the Electronic Equipment Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 October 1994

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National foreword

This British Standard has been prepared under the direction of the Electronic Equipment Standards Policy Committee and is the English language version of EN 60244-12-1:1993 *Methods of measurement for radio transmitters — Part 12: Guideline for drawing up descriptive leaflets for transmitters and transposers for sound and television broadcasting — Characteristics to be specified*, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 244-12-1:1989, published by the International Electrotechnical Commission (IEC) and is part of a series describing recommended methods of measurement for assessing the performance of radio transmitters.

This Part applies to manufacturers' descriptive leaflets and specifies uniform methods of expressing performance characteristics, lists essential characteristics and technical information needed for approving and comparing equipment, and provides any relevant cross-references to standardized methods of measurement for the performance characteristics listed.

**This Part is intended to be used in conjunction with
BS EN 60244-12-2:1994**

It is anticipated that the other Parts of IEC Publication 244 will be published as identical British Standards, subject to their harmonization by CENELEC.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

**Compliance with a British Standard does not of itself confer immunity
from legal obligations.**

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 16, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

English version

Methods of measurement for radio transmitters
Part 12: Guideline for drawing up descriptive leaflets for
transmitters and transposers for sound and television
broadcasting —
Characteristics to be specified

(IEC 244-12-1:1989)

Méthodes de mesure applicables aux
émetteurs radioélectriques
Douzième partie: Guide de rédaction des
feuilles de spécification des émetteurs et des
réémetteurs de télévision et de radiodiffusion
sonore —
Caractéristiques à spécifier
(CEI 244-12-1:1989)

Meßverfahren für Funksender
Teil 12: Anleitung zur Erstellung von
Datenblättern für Funksender und Umsetzer
für Fernseh- und Tonrundfunk —
Anzugebende Kennwerte
(IEC 244-12-1:1989)

This European Standard was approved by CENELEC on 1993-03-09. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

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Foreword

At the request of 72nd Technical Board, HD 236.12.1 S1:1991 (IEC 244-12-1:1989) was submitted to the CENELEC voting procedure for conversion into a European Standard.

The text of the International Standard was approved by CENELEC as EN 60244-12-1 on 9 March 1993.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1994-06-01
- latest date of withdrawal of conflicting national standards (dow) —

Annexes designated “normative” are part of the body of the standard. In this standard, Annex ZA is normative.

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Introduction

As an interim measure and in order to ease the updating of references made to publications dealing with methods of measurement with clauses of this standard, tables initially belonging to sections of the different documents composing this standard are published in IEC Publication 244-12-2: Specification sheets.

This standard is one of a series of parts of IEC Publication 244, describing recommended methods of measurement for assessing the performance of radio transmitters and shall be used in conjunction with IEC Publication 244-12-2 regularly updated while dedicated parts of IEC Publication 244 are currently being revised.

1 Scope

This standard applies to the manufacturer's descriptive leaflets providing information on transmitters and transposers for sound and television broadcasting.

2 Object

The standard is intended:

- to lay down uniform methods of expressing the performance characteristics of transmitters and transposers for sound and television broadcasting;
- to list the essential characteristics and technical information needed for the appraisal and comparison of equipment;
- to provide, where appropriate, cross references to standardized methods of measurement for the performance characteristics listed.

Leaflets prepared in accordance with this standard need not form but may form part of instruction manuals supplied with the equipment.

3 General notes on the format of the leaflet

Two categories of characteristics are specified as follows:

- general characteristics applicable to all categories of transmitters and transposers;
- performance characteristics specific to a particular type of equipment, e.g. a television transmitter or a transposer for frequency-modulated sound broadcasting.

The general characteristics cover electrical and other characteristics which can have an effect on the performance of the equipment; they shall include the following technical information:

- a) functional description of the various items of equipment including block diagrams, where appropriate;

- b) layout of the equipment and constructional details, including dimensions and weights, of the individual items and ancillary equipment required for normal operation;
- c) figures about cooling and means and quality of coolant;
- d) characteristics affecting the environment, e.g. heat dissipation in the transmitter room and acoustic noise;
- e) type designation of the equipment and individual items, where applicable;
- f) number and type designation of thermionic tubes used in power stages.

Some characteristics and/or technical information may not be appropriate to all types of equipment, e.g. low power transmitters.

Additional characteristics, other than those mentioned in this standard, may be included in a particular leaflet.

As far as practicable, the definitions given in this standard are in accordance with those of the various parts of IEC Publication 244. It should be noted, however, that the definitions are intended for the guidance of authors and should not in general appear in the actual leaflets.

Section 1. General characteristics applicable to all categories of transmitters and transposers

4 Introduction

The general characteristics described in this section are listed in Table I of IEC Publication 244-12-2.

Where appropriate, reference is made in Table I to the standardized methods of measurement and test signals described in other IEC publications.

5 Characteristics

5.1 Transmission system

The transmission system(s) the transmitter or transposer is capable of handling shall be stated and be designated in accordance with the latest issue of the relevant CCIR Recommendation or Report, e.g.:

- for television: CCIR Report 624;
- for FM sound broadcasting: CCIR Recommendation 450;
- for AM sound broadcasting: CCIR Report 458.

5.2 Frequency range

The frequency range refers to the frequency band (or bands) in which the transmitter or transposer is capable of operating.

The following details shall be specified:

- the lower and upper limits of the frequency band (or bands), expressed in Hz or MHz