SLOVENSKI STANDARD
SIST EN 60244-12-1:1999

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Methods of measurement for radio transmitters - Part 12: Guideline for drawing up descriptive leaflets for transmitters and transposers for sound and television broadcasting - Characteristic to be specified (IEC 60244-12-1:1989)

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

Meßverfahren für Funksender -- Teil 12: Anleitung zur Erstellung von Datenblättern für Funksender und Umsetzer für Fernseh- und Tonrundfunk -- Anzugebende Kennwerte

Méthodes de mesure applicables aux émetteurs radioélectriques -- Partie 12: Guide de rédaction des feuilles de spécification des émetteurs et des réemetteurs de télévision et de radiodiffusion sonore -- Caractéristiques à spécifier

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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)

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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.

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CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

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.

ENDORSEMENT NOTICE

The text of the International Standard IEC 244-12-1:1989 was approved by CENELEC as a European Standard without any modification.

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
215	1987	Safety requirements for radio transmitting equipment	EN 60215	1989
244-1	1968	Methods of measurement for radio transmitters - Part 1: General conditions of measurement, frequency, output power and power consumption	HD 236.1 S1*	1977
244-5	1971	Part 5: Measurements particular to transmitters and transposers for monochrome and colour television	HD 236.5 S4**	1979
244-5B + A1	1975 1978	Second supplement: Sections five and six	**	
244-5C	1977	Third supplement: Section seven - Unwanted modulation, including hum, noise and intermodulation	**	
244-9	1982	Part 9: Transposers for monochrome and colour television	HD 236.9 S1***	1984
244-11	1989	Part 11: Transposers for FM sound broadcasting	EN 60244-11	1993
244-12-2	1989	Part 12: Guideline for drawing up descriptive leaflets for transmitters and transposers for sound and television broadcasting Specification sheets	EN 60244-12-2	1993
864-1	1986	Standardization of interconnections between broadcasting transmitters or transmitter systems and supervisory equipment - Part 1: Interface standards for systems using dedicated interconnections	HD 577 S1****	1990

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* HD 236.1 S1 is based on IEC 244-1:1968 + A1:1973 + IEC 244-1A:1968 + A1:1973

** HD 236.5 S4 is based on IEC 244-5:1971 + IEC 244-5A:1971 + IEC 244-5B:1975 + A1:1978 + IEC 244-5C:1977

*** HD 236.9 S1 is based on IEC 244-9:1982 + A1:1983

**** HD 577 S1 is based on IEC 864-1:1986 + A1:1987

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Methods of measurement for radio transmitters

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

FOREWORD

1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.

2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.

3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules insofar as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

PREFACE

This standard has been prepared by Sub-Committee 12C: Transmitting equipment, of IEC Technical Committee No. 12: Radiocommunications.

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

Six Months' Rule	Reports on Voting	Two Months' Procedure	Reports on Voting
12C(CO)185	12C(CO)194	12C(CO)196	12C(CO)202
12C(CO)188	12C(CO)198	12C(CO)204	12C(CO)208
12C(CO)189	12C(CO)199		
12C(CO)190	12C(CO)200		
12C(CO)191	12C(CO)201		
12C(CO)205	12C(CO)210		

Further information can be found in the Reports on Voting indicated in the table above.

The following IEC publications are quoted in this standard:

Publications Nos.

215 (1987): Safety requirements for radio transmitting equipment.

244: Methods of measurement for radio transmitters.

244-1 (1968): Part 1: General conditions of measurement, frequency, output power and power consumption.

244-5 (1971): Part 5: Measurements particular to transmitters and transposers for monochrome and colour television.

244-5B (1975): Second Supplement to Publication 244-5. Sections Five and Six. Amendment No. 1 (1978).

244-5C (1977): Third Supplement to Publication 244-5. Section Seven — Unwanted modulation, including hum, noise and intermodulation.

244-9 (1982): Part 9: Transposers for monochrome and colour television.

244-11 (1989): Part 11: Transposers for FM sound broadcasting.

244-12-2 (1989): Guideline for drawing up descriptive leaflets or transmitters and transposers for sound and television broadcasting — Specification sheets (being printed).

864-1 (1986): Standardization of interconnections between broadcasting transmitters or transmitter systems and supervisory equipment, Part 1: Interface standards for systems using dedicated interconnections.

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

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 ONE — 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 kHz or MHz;

— information on any frequency dependent components or sub-assemblies in the equipment that shall be replaced or modified to cover the above specified frequency range;

— the way in which the carrier frequency is generated and whether an external drive may be used instead;