
Methods of measurement for equipment used in terrestrial radio-relay systems -
Part 2: Measurements for sub-systems - Section 1: General

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UDC: 621.396.65(100.2-81).029.63/66.083

KEY WORDS: Terrestrial radio-relay systems; measurement

METHODS OF MEASUREMENT FOR EQUIPMENT USED IN
TERRESTRIAL RADIO-RELAY SYSTEMS
PART 2: MEASUREMENTS FOR SUB-SYSTEMS
SECTION ONE - GENERAL

Méthodes de mesure applicables
au matériel utilisé dans les
faisceaux hertziens terrestres
Deuxième partie: Mesures sur les
sous-ensembles
Section un - Généralités

Meßverfahren für
Geräte in terrestrischen
Richtfunksystemen
Teil 2: Messungen an
Untersystemen
Hauptabschnitt eins - Allgemeines

BODY OF THE HD

The Harmonization Document consists of:

- IEC 487-2-1 (1981) ed 1; IEC/SC 12E, not appended

This Harmonization Document was approved by CENELEC on 1986-09-10.

The English and French versions of this Harmonization Document are provided by the text of the IEC publication and the German version is the official translation of the IEC text. The German translation is available.

According to the CENELEC Internal Regulations the CENELEC member National Committees are bound:

to announce the existence of this Harmonization Document at national level by or before 1987-03-15

to publish their new harmonized national standard by or before 1987-09-15

to withdraw all conflicting national standards by or before 1987-09-15.

Harmonized national standards are listed on the HD information sheet, which is available from the CENELEC National Committees or from the CENELEC Central Secretariat.

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE
NORME DE LA CEI

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC STANDARD

Publication 487-2-1

Première édition — First edition

1981

Méthodes de mesure applicables au matériel
utilisé dans les faisceaux hertziens terrestres

Deuxième partie : Mesures sur les sous-ensembles

Section un — Généralités

Methods of measurement for equipment
used in terrestrial radio-relay systems

Part 2: Measurements for sub-systems

Section One — General

Mots clés: faisceaux hertziens
terrestres; mesure.

Key words: terrestrial radio-relay
systems; measurement.



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Genève, Suisse

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

METHODS OF MEASUREMENT FOR EQUIPMENT
USED IN TERRESTRIAL RADIO-RELAY SYSTEMS

Part 2: Measurements for sub-systems

Section One – General

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 in so far 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.

PREFACE

This standard has been prepared by Sub-Committee 12E: Microwave Systems, of IEC Technical Committee No. 12: Radiocommunications.

A draft of Section One was discussed at the meeting held in Sydney in 1979. As a result of this meeting, a draft, Document 12E(Central Office)80, was submitted to the National Committees for approval under the Six Months' Rule in January 1980.

The National Committees of the following countries voted explicitly in favour of publication:

Australia	Japan
Belgium	Korea (Republic of)
Canada	South Africa (Republic of)
France	Spain
Germany	Sweden
Ireland	Turkey
Italy	United Kingdom

Other IEC publication quoted in this standard:

Publication No. 487-1: Methods of Measurement for Equipment Used in Terrestrial Radio-relay Systems, Part 1: Measurements Common to Sub-systems and Simulated Radio-relay Systems.

METHODS OF MEASUREMENT FOR EQUIPMENT USED IN TERRESTRIAL RADIO-RELAY SYSTEMS

Part 2: Measurements for sub-systems

SECTION ONE – GENERAL

1. Object

The object of this standard is to define measurement methods for assessing the electrical characteristics of sub-systems in order to facilitate the comparison of the results of measurements made by different observers. The methods of measurement described are intended for “type” and “acceptance” tests and they may also be used for factory tests.

2. Scope

The methods of measurement described in the following sections of this part apply to sub-systems including those which are not part of a simulated system (e.g. antennas). The methods are intended to cover those electrical characteristics which influence the performance of radio-relay systems and should be used in conjunction with Part 1 of this publication: Measurements Common to Sub-systems and Simulated Radio-relay Systems.

Values for the various quantities to be measured are not specified since these should be given in the detailed equipment specification.

3. Choice of test methods

Recommendations for the quantitative performance of complete systems and their characteristics at international connection points are provided by the C.C.I.R. Because these overall system objectives may be met by diverse arrangements of sub-systems, a wide variety of electrical characteristics and resulting measurement methods is involved. It is not always possible, therefore, to recommend a single preferred measurement method but those measurements which are described in this standard should, in all cases, enable at least the basic electrical characteristics of the sub-system to be assessed.

The methods of measurement given in this part are neither mandatory nor limiting.

4. Definition of a sub-system

A sub-system is defined as a combination of circuits and devices which perform a specified function—such as modulation, r.f. branching or multi-line switching—and for which electrical, mechanical and environmental characteristics are specified.

5. Test conditions

The standard test conditions of Section One: General, of IEC Publication 487-1 are normally applicable. However, for some sub-systems not included in Part 1 (e.g. antennas and passive reflectors) different conditions may apply and these are dealt with in the appropriate sections of this part.

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