

Methods of measurement for equipment used in digital microwave radio transmission systems —

Part 2: Measurements on terrestrial radio-relay systems —

Section 2.10 Overall system performance

The European Standard EN 60835-2-10:1993 has the status of a
British Standard

UDC 621.396.7:621.317.083

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 June 1993

© BSI 01-2000

The following BSI references relate to the work on this standard:
Committee reference EEL/25
Draft for comment 91/29838 DC

ISBN 0 580 21854 6

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Cooperating organizations	Inside front cover
National foreword	ii
Foreword	2
Introduction	3
1 Scope	3
2 Normative references	3
3 Bit-error ratio (BER)	3
4 Jitter	5
5 Acceptable input interruption	5
6 Verification of protection switching operation	5
Annex ZA (normative) Other international publications quoted in this standard with the references of the relevant European publications	8
National annex NA (informative) Committees responsible	Inside back cover
National annex NB (informative) Cross-reference	Inside back cover
Figure 1 — Illustration of interference sources in three-channel radio-relay system	6
Figure 2 — Presentation of carrier-to-noise ratio degradation by two bit-error ratio (BER) functions	6
Figure 3 — Effect of co-channel interference and adjacent-channel interference	7

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 60835-2-10:1993 *Methods of measurement for equipment used in digital microwave radio transmission systems — Part 2: Measurements on terrestrial radio-relay systems: Section 10 — Overall system performance*, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 835-2-10:1992 published by the International Electrotechnical Commission (IEC). BS EN 60835 is published in three Parts. The other Parts are:

- *Part 1: Measurements common to terrestrial radio-relay systems and satellite earth stations;*
- *Part 3: Measurements on satellite earth stations.*

Some of the many Sections of the three Parts have appeared under the number BS 7573, of the same generic title.

Copies of International Radio Consultative Committee (CCIR) documents may be purchased through BSI Sales, Linford Wood, Milton Keynes, MK14 6LE.

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 8, 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.

UDC 621.396.7:621.317.083

Descriptors: Radiocommunications, radio equipment, microwave frequencies, digital transmission, radio-relay systems, measurement

English version

Methods of measurement for equipment used in digital
microwave radio transmission systems
Part 2: Measurements on terrestrial radio-relay systems
Section ten — Overall system performance

(IEC 835-2-10:1992)

Méthodes de mesure applicables au matériel
utilisé pour les systèmes de transmission
numérique en hyperfréquence
Partie 2: Mesures applicables aux faisceaux
hertziens terrestres
Section dix — Performance globale du système
(CEI 835-2-10:1992)

Meßverfahren für Geräte in digitalen
Mikrowellen-Funkübertragungssystemen
Teil 2: Messungen an terrestrischen
Richtfunksystemen
Hauptabschnitt zehn — Leistungsdaten des
Gesamtsystems
(IEC 835-2-10:1992)

This European Standard was approved by CENELEC on 1992-06-16. 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

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

© 1993 Copyright reserved to CENELEC members