

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

Part 2: Measurements on terrestrial radio-relay systems —

Section 2.8 Adaptive equalizer

The European Standard EN 60835-2-8:1993, together with its amendment A1:1996 has the status of a British Standard

ICS 33.060.30

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee EPL/12, Radio communication, upon which the following bodies were represented:

- British Broadcasting Corporation
- British Radio and Electronic Equipment Manufacturers' Association
- British Telecommunications plc
- ERA Technology Ltd.
- Institution of Electrical Engineers
- Radio, Electrical and Television Retailers' Association
- Radiocommunications Agency

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 February 1996

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The following BSI references relate to the work on this standard:
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Amendments issued since publication

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National foreword

This British Standard has been prepared by Technical Committee EPL/102 (formerly EPL/12) and is the English language version of EN 60835-2-8:1993 *Methods of measurement for equipment used in digital microwave radio transmission systems — Part 2: Measurements on terrestrial radio-relay systems — Section 8: Adaptive equalizer*, including amendment A1:1996, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 835-2-8:1993, including amendment No. 1:1996, published by the International Electrotechnical Commission (IEC) and is part of a series.

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.*

This Section of BS EN 60835-2 covers measurements pertaining to the adaptive equalizers used in digital microwave radio-relay systems. These measurements are intended to characterize the system equalizer in the presence of selective fading and may also be performed on systems without adaptive equalizers.

To take account of those properties of the system which are especially influenced by the use of frequency and/or time domain equalizers, the results of measurements performed on the system are presented by so-called signatures. Additional measurements provide further means to characterize the performance of the system.

It is expected that other Sections of the IEC Publication 835 will be published as identical British Standards, subject to their harmonization by CENELEC.

Some Sections of this British Standard have already been published as Sections of BS 7573.

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 20, 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.

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Descriptors: Radiocommunications, telecommunications, communication equipment, earth stations, radio-relay systems, microwave frequencies, measurements, characteristics

English version

Methods of measurement for equipment used in digital
microwave radio transmission systems
Part 2: Measurements on terrestrial radio-relay systems
Section 8: Adaptive equalizer

(includes amendment A1:1996)
(IEC 835-2-8:1993 + A1:1996)

Méthodes de mesure applicables au matériel
utilisé pour les systèmes de transmission
numérique en hyperfréquence
Partie 2: Mesures applicables aux faisceaux
hertziens terrestres
Section 8: Egaliseur auto-adaptif
(inclut l'amendement A1:1996)
(CEI 835-2-8:1993 + A1:1996)

Meßverfahren für Geräte in digitalen
Mikrowellen-Funkübertragungssystemen
Teil 2: Messungen an terrestrischen
Richtfunksystemen
Hauptabschnitt 8: Adaptive Entzerrer
(enthält Änderung A1:1996)
(IEC 835-2-8:1993 + A1:1996)

This European Standard was approved by CENELEC on 1993-07-06. 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

Foreword

The text of document 12E(CO)146, as prepared by subcommittee 12E, Radio relay and fixed satellite communication systems, of IEC technical committee 12, Radiocommunications, was submitted to the IEC-CENELEC parallel vote in November 1991.

The reference document was approved by CENELEC as EN 60835-2-8 on 6 July 1993.

The following dates were fixed:

- latest date of publication
of an identical national
standard (dop) 1994-07-01
- latest date of withdrawal
of conflicting national
standards (dow) 1994-07-01

Foreword to amendment A2

The text of 12E/255/FDIS, future amendment 1 to IEC 835-2-8:1993, prepared by SC 12E, Radio-relay and fixed satellite communication systems, of IEC TC 12, Radiocommunications, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 60835-2-8:1993 on 1996-03-05.

The following dates were fixed:

- latest date by which the
amendment has to be
implemented at national
level by publication of an
identical national standard
or by endorsement (dop) 1996-12-01
- latest date by which the
national standards
conflicting with the
amendment have to be
withdrawn (dow) 1996-12-01

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