



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60835-3-13:1999

ICS 33.060.30

**METHODS OF MEASUREMENT FOR  
EQUIPMENT USED IN DIGITAL MICROWAVE  
RADIO TRANSMISSION SYSTEMS. PART 3:  
MEASUREMENTS ON SATELLITE EARTH  
STATIONS. SECTION 13: VSAT SYSTEMS  
(IEC 835-3-13:1996)**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60835-3-13**

July 1996

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ICS 33.060.30

Descriptors: Telecommunications, radiocommunications, communication equipment, earth station, microwave frequencies, digital technics, measurements, characteristics

English version

**Methods of measurement for equipment used in  
digital microwave radio transmission systems  
Part 3: Measurements on satellite earth stations  
Section 13: VSAT systems  
(IEC 835-3-13:1996)**

Méthodes de mesure applicables  
au matériel utilisé pour les systèmes  
de transmission numérique en  
hyperfréquence  
Partie 3: Mesures applicables aux  
stations terriennes de  
télécommunications par satellite  
Section 13: Systèmes VSAT  
(CEI 835-3-13:1996)

Meßverfahren für Geräte in digitalen  
Mikrowellen-Funkübertragungssystemen  
Teil 3: Messungen an  
Satelliten-Erdfunkstellen  
Hauptabschnitt 13: VSAT-Systeme  
(IEC 835-3-13:1996)

This European Standard was approved by CENELEC on 1996-07-02. 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.

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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

The text of document 12E/237/FDIS, future edition 1 of IEC 835-3-13, 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 EN 60835-3-13 on 1996-07-02.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 1997-04-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 1997-04-01

Annexes designated "normative" are part of the body of the standard.  
Annexes designated "informative" are given for information only.  
In this standard, annex ZA is normative and annex A is informative.  
Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 835-3-13:1996 was approved by CENELEC as a European Standard without any modification.

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**Annex ZA (normative)****Normative references to international publications  
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 835-1-2	1992	Methods of measurement for equipment used in digital microwave radio transmission systems Part 1: Measurements common to terrestrial radio-relay systems and satellite earth stations Section 2: Basic characteristics	EN 60835-1-2	1993
IEC 835-1-4	1992	Section 4: Transmission performance	EN 60835-1-4	1995
IEC 835-3-2	1995	Part 3: Measurements on satellite earth stations Section 2: Antenna	EN 60835-3-2	1996
IEC 835-3-7	1995	Section 7: Figure-of-merit of receiving system	EN 60835-3-7	1995
CISPR 22 (mod)	1985	Limits and methods of measurement of radio interference characteristics of information technology equipment	EN 55022 <sup>1)</sup>	1987
ITU-R Recommendation S 725	1992	Technical characteristics for very small aperture terminals (VSATs)	-	-
ITU-R Recommendation S 729	1992	Control and monitoring function of very small aperture terminals (VSATs)	-	-
ITU-T Recommendation X 24	1988	List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) on public data circuit-terminating equipment (DCE) on public data networks	-	-

1) EN 55022 is superseded by EN 55022:1994, which is based on CISPR 22:1993.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ITU-T Recommendation X 25	1993	Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit	-	-
Radio Regulations, Appendix 8	1990	Table of maximum permitted spurious emission power levels	-	-

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