

SLOVENSKI STANDARD
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Fibre optic communication subsystem test procedures - Part 2-9: Digital systems -
Optical signal-to-noise ratio measurement for dense wavelength-division multiplexed
systems (IEC 61280-2-9:2009)

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Prüfverfahren für Lichtwellenleiter-Kommunikationsuntersysteme - Teil 2-9: Digitale
Systeme - Messung des optischen Signal-Rausch-Verhältnisses für dichte Wellenlängen
-Multiplex-Systeme (IEC 61280-2-9:2009)

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Procédures d'essai des sous-systèmes de télécommunications à fibres optiques - Partie
2-9: Systèmes numériques - Mesure du rapport signal sur bruit optique pour les
systèmes multiplexés à répartition en longueur d'onde dense (CEI 61280-2-9:2009)

Ta slovenski standard je istoveten z: EN 61280-2-9:2009**ICS:**

33.180.20 Ú[ç^: [çæ] ^Á æ] !æ^Á æ Fibre optic interconnecting
[] cã } æç|æ } æ devices

SIST EN 61280-2-9:2009 en,fr

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61280-2-9

April 2009

ICS 33.180.20

Supersedes EN 61280-2-9:2002

English version

**Fibre optic communication subsystem test procedures -
Part 2-9: Digital systems -
Optical signal-to-noise ratio measurement
for dense wavelength-division multiplexed systems
(IEC 61280-2-9:2009)**

Procédures d'essai des sous-systèmes
de télécommunications à fibres optiques -
Partie 2-9: Systèmes numériques -
Mesure du rapport signal sur bruit optique
pour les systèmes multiplexés
à répartition en longueur d'onde dense
(CEI 61280-2-9:2009)

Prüfverfahren für Lichtwellenleiter-
Kommunikationsunterssysteme -
Teil 2-9: Digitale Systeme -
Messung des optischen
Signal-Rausch-Verhältnisses für dichte
Wellenlängen-Multiplex-Systeme
(IEC 61280-2-9:2009)

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This European Standard was approved by CENELEC on 2009-04-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Central Secretariat: avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 86C/823/CDV, future edition 2 of IEC 61280-2-9, prepared by SC 86C, Fibre optic systems and active devices, of IEC TC 86, Fibre optics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61280-2-9 on 2009-04-01.

This European Standard supersedes EN 61280-2-9:2002.

The main changes from EN 61280-2-9:2002 are as follows:

- a paragraph has been added to the scope describing the limitations due to signal spectral width and wavelength filtering;
- Annex B has been added to further explain error in measuring noise level due to signal spectral width and wavelength filtering.

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) 2010-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2012-04-01

Annex ZA has been added by CENELEC.

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Endorsement notice

SIST EN 61280-2-9:2009

The text of the International Standard IEC 61280-2-9:2009 was approved by CENELEC as a European Standard without any modification. 5e2644dcbc22/sist-en-61280-2-9-2009

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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 61290-3-1	- ¹⁾	Optical amplifiers - Test methods - Part 3-1: Noise figure parameters - Optical spectrum analyzer method	EN 61290-3-1	2003 ²⁾
IEC 62129	- ¹⁾	Calibration of optical spectrum analyzers	EN 62129 + corr. December	2006 ²⁾ 2006

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¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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IEC 61280-2-9

Edition 2.0 2009-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fibre optic communication subsystem test procedures –
Part 2-9: Digital systems – Optical signal-to-noise ratio measurement for dense
wavelength-division multiplexed systems**

**Procédures d'essai des sous-systèmes de télécommunications
à fibres optiques –**

**Partie 2-9: Systèmes numériques – Mesure du rapport signal sur bruit optique
pour les systèmes multiplexés à répartition en longueur d'onde dense**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC COMMUNICATION SUBSYSTEM TEST PROCEDURES –**Part 2-9: Digital systems –
Optical signal-to-noise ratio measurement
for dense wavelength-division multiplexed systems**

FOREWORD

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International Standard IEC 61280-2-9 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics

This second addition cancels and replaces the first edition published in 2002 and constitutes a technical revision. The main changes from the previous edition are as follows:

- A paragraph has been added to the Scope describing the limitations due to signal spectral width and wavelength filtering.
- Annex B has been added to further explain error in measuring noise level due to signal spectral width and wavelength filtering.

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

CDV	Report on voting
86C/823/CDV	86C/864/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 61280 series, under the general title *Fibre optic communication subsystem test procedures*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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