

BS EN 61290-10-2:2008



BSI Standards Publication

Optical amplifiers – Test methods —

Part 10-2: Multichannel parameters –
Pulse method using a gated optical
spectrum analyzer

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National foreword

This British Standard is the UK implementation of EN 61290-10-2:2008. It is identical to IEC 61290-10-2:2007. It supersedes BS EN 61290-10-2:2003 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee GEL/86, Fibre optics, to Subcommittee GEL/86/3, Fibre optic systems and active devices.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2009

Amendments issued since publication

Amd. No.	Date	Text affected
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English version

**Optical amplifiers -
Test methods -
Part 10-2: Multichannel parameters -
Pulse method using a gated optical spectrum analyzer
(IEC 61290-10-2:2007)**

Amplificateurs optiques -
Méthodes d'essai -
Partie 10-2: Paramètres
à canaux multiples -
Méthode d'impulsion utilisant un analyseur
de spectre optique stroboscopique
(CEI 61290-10-2:2007)

Prüfverfahren für
Lichtwellenleiter-Verstärker -
Teil 10-2: Mehrkanalparameter -
Pulsmethode bei Verwendung
eines ausblendbaren optischen
Spektralanalysators
(IEC 61290-10-2:2007)

This European Standard was approved by CENELEC on 2007-10-01. 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: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 86C/772/FDIS, future edition 2 of IEC 61290-10-2, 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 61290-10-2 on 2007-10-01.

This European Standard supersedes EN 61290-10-2:2003.

EN 61290-10-2:2008 is a technical revision with updated references and cautions on proper use of the procedure.

This standard is to be used in conjunction with EN 61291-1.

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) | 2008-08-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2010-10-01 |

The International Electrotechnical Commission (IEC) and CENELEC draw attention to the fact that it is claimed that compliance with this document may involve the use of two patents.

One patent concerns a technique for determining the amplified spontaneous emission noise of an optical amplifier in the presence of an optical signal given in Clause 4 and Clause 6.

The IEC and CENELEC take no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the IEC that he/she is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with the IEC. Information may be obtained from:

Agilent Technologies
Palo Alto (CA)
USA

Another patent concerns a measurement system and noise measurement apparatus for an optical amplifier given in Clause 4 and Clause 6.

The IEC and CENELEC take no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the IEC that he/she is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with the IEC. Information may be obtained from:

Fujitsu Limited
Tokyo
Japan

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. The IEC and CENELEC shall not be held responsible for identifying any or all such patent rights.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61290-10-2:2007 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61290-3-1	NOTE	Harmonized as EN 61290-3-1:2003 (not modified).
IEC 61290-10-1	NOTE	Harmonized as EN 61290-10-1:2003 (not modified).

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 61291-1	- ¹⁾	Optical amplifiers - Part 1: Generic specification	EN 61291-1	2006 ²⁾

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.