

ISBN 978-0-626-28454-1

SANS 61280-2-1:1998

Edition 1 and nat. amdt 1

IEC 61280-2-1:1998

Edition 1

Any reference to SABS IEC 61280-2-1 is deemed
to be a reference to this standard
(Government Notice No. 1373 of 8 November 2002)

SOUTH AFRICAN NATIONAL STANDARD

Fibre optic communication subsystem basic test procedures

Part 2-1: Test procedures for digital systems — Receiver sensitivity and overload measurement

This national standard is the identical implementation of IEC 61280-2-1:1998, and is adopted with the permission of the International Electrotechnical Commission.

SANS 61280-2-1:1998
Edition 1 and nat. amdt 1
IEC 61280-2-1:1998
Edition 1

Table of changes

Change No.	Date	Scope
Nat. amdt 1	2007	Amended to change the designation from SABS to SANS, with no technical changes.

National foreword

This South African standard was approved by National Committee SABS TC 79, *Fibre optics*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This SANS document was published in September 2007.

This SANS document supersedes SABS IEC 61280-2-1:1998 (first edition).

**Reaffirmed and reprinted in February 2013.
This document will be reviewed every five years
and be reaffirmed, amended, revised or withdrawn.**

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

61280-2-1

Première édition
First edition
1998-12

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

**Partie 2-1:
Procédures d'essai des systèmes numériques –
Mesure de la sensibilité et de la surcharge
d'un récepteur**

**Fibre optic communication subsystem
basic test procedures –**

**Part 2-1:
Test procedures for digital systems –
Receiver sensitivity and overload measurement**

© IEC 1998 Droits de reproduction réservés — Copyright - all rights reserved

Aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'éditeur.

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission
Telefax: +41 22 919 0300

e-mail: inmail@iec.ch

3, rue de Varembe Geneva, Switzerland
IEC web site <http://www.iec.ch>



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

L

*Pour prix, voir catalogue en vigueur
For price, see current catalogue*

CONTENTS

	Page
FOREWORD	5
Clause	
1 Scope and object	7
2 Apparatus	7
3 Test sample	9
4 Procedure	9
5 Calculations	11
6 Test results	13
Figures.....	15
Annex A (informative) Bibliography	23

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC COMMUNICATION SUBSYSTEM BASIC TEST PROCEDURES –

Part 2-1: Test procedures for digital systems – Receiver sensitivity and overload measurement

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61280-2-1 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86C/224/FDIS	86C/232/RVD

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

Annex A is for information only.