

INTERNATIONAL STANDARD

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**Semiconductor optoelectronic devices for fibre optic system applications –
Part 2: Measuring methods**

**Dispositifs optoélectroniques à semiconducteurs pour application dans les
systèmes fibroniques –
Partie 2: Méthodes de mesure**



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**Semiconductor optoelectronic devices
for fibre optic system applications -
Part 2: Measuring methods**

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IEC 62007-2 has been prepared by subcommittee 86C: Fibre optic systems, sensing and active devices, of IEC technical committee 86: Fibre optics. It is an International Standard.

This third edition cancels and replaces the second edition published in 2009. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Modification of the definition of “optical fibre pigtail” in 3.1.3;
- b) Correction of an error in Formula (1) for relative intensity noise;
- c) Correction of an error in Formula (5);
- d) Correction of errors in the title of Figure 11 and the text of 4.9 (replaced "LD" with "LED");
- e) Clarification of how to calculate the 1 dB compression in 4.9;
- f) Corrections of the circuit diagrams in Figure 2, Figure 5, Figure 11, Figure 17, Figure 18, Figure 19, Figure 20, and Figure 21;
- g) Clarification of the measurement setup in 5.10 (Figure 28).

The text of this International Standard is based on the following documents:

Draft	Report on voting
86C/1975/FDIS	86C/1985/RVD

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

The language used for the development of this International Standard is English.

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INTRODUCTION

Semiconductor optical signal transmitters and receivers play important roles in optical communication networks. This document covers the measurement procedures for evaluating their optical and electrical properties that are important for applications in digital communication systems. These properties are essential for specifying the performance of these devices.

1 Scope

This part of IEC 62007 specifies measuring methods for characterizing semiconductor optoelectronic devices that are used in the field of fibre optic digital communication systems and subsystems.

2 Normative references

There are no normative references in this document.