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STN	**Dynamické moduly. Časť 3-2: Vzory špecifikácie prevádzkových vlastností. Optický monitor kanála.**	**STN EN 62343-3-2** 35 9258

Dynamic modules - Part 3-2: Performance specification templates - Optical channel monitor

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Dynamic modules - Part 3-2: Performance specification templates - Optical channel monitor (IEC 62343-3-2:2016)

Dynamic modules - Part 3-2: Performance specification templates - Optical channel monitor (IEC 62343-3-2:2016)

Dynamische Module - Teil 3-2: Vorlagen für Leistungsspezifikationen - Optische Kanalüberwachung (IEC 62343-3-2:2016)

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Comité Européen de Normalisation Electrotechnique
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European foreword

The text of document 86C/1324/CDV, future edition 1 of IEC 62343-3-2, 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 approved by CENELEC as EN 62343-3-2:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-03-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-06-16

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 61280-2-9	-	Fibre optic communication subsystem test procedures -- Part 2-9: Digital systems - Optical signal-to-noise ratio measurement for dense wavelength-division multiplexed systems	EN 61280-2-9	-
IEC 61300-3-21	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-21: Examinations and measurements - Switching time	EN 61300-3-21	-
IEC 61300-3-29	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 3-29: Examinations and measurements - Spectral transfer characteristics of DWDM devices	EN 61300-3-29	-
IEC 62074-1	-	Fibre optic interconnecting devices and passive components - Fibre optic WDM devices -- Part 1: Generic specification	EN 62074-1	-
IEC 62343	-	Dynamic modules - General and guidance	EN 62343	-

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INTERNATIONAL STANDARD

Dynamic modules –
Part 3-2: Performance specification templates – Optical channel monitor

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IEC Central Office
3, rue de Varembé
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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DYNAMIC MODULES –

Part 3-2: Performance specification templates – Optical channel monitor

FOREWORD

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International Standard IEC 62343-3-2 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

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

CDV	Report on voting
86C/1324/CDV	86C/1371/RVC

Full information on the voting for the approval of this document 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 parts in the IEC 62343 series, published under the general title *Dynamic modules*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website 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.

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

An optical channel monitor (OCM) is a dynamic module that measures the optical characteristics, mainly power and frequency, of each channel present in a dense wavelength division multiplexing (DWDM) transmission line. The OCM is typically connected to an optical tap coupler which directs to the OCM anywhere between 1 % and 5 % of the optical signal in the fibre-optic transmission line. The data reported by the OCM are used in a reconfigurable optical add/drop multiplexer (ROADM) to dynamically equalize the power in the optical channels and to monitor the performance of the channels continuously over the lifetime of the system.

DYNAMIC MODULES –

Part 3-2: Performance specification templates – Optical channel monitor

1 Scope

This part of IEC 62343 provides a performance specification template for optical channel monitors. The objective of this performance specification template is to provide a framework for the performance specification of the optical channel monitor.

Additional specification parameters may be included for detailed product specifications or performance specifications. However, specification parameters specified in this document should not be removed from the detail product specifications or performance specifications.

This document outlines the parameters that are used to specify the performance of the optical channel monitor.

2 Normative references

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

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

IEC 61300-3-21, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-21: Examinations and measurements – Switching time*

IEC 61300-3-29, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-29: Examinations and measurements – Spectral transfer characteristics of DWDM devices*

IEC 62074-1, *Fibre optic interconnecting devices and passive components – Fibre optic WDM devices – Part 1: Generic specification*

IEC 62343, *Dynamic modules – General and guidance*