

SLOVENSKI STANDARD SIST EN 61207-6:2015

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Prikaz lastnosti analizatorjev plina - 6. del: Fotometrični analizatorji (IEC 61207-6:2014)

Expression of Performance of gas analyzers- Part 6: Photometric analyzers (IEC 61207-6:2014)

Angabe zum Betriebsverhalten von Gasanalysatoren - Teil 6: Fotometrische Analysatoren (IEC 61207-6:2014) ANDARD PREVIEW

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Expression des performances des analyseurs de gaz - Partie 6: Analyseurs photométriques (IEC 61207-6:2014) SIST EN 61207-6:2015

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19.080 Električno in elektronsko Electrical and electronic

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Foreword

The text of document 65B/947/FDIS, future edition 2 of IEC 61207-6, prepared by SC 65B "Measurement and control devices", of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61207-6:2015.

The following dates are fixed:

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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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60079-29-1	iT	Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases	EN 60079-29-1	-
IEC 60079-29-4	<u>-</u>	Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases N 61207-62015	EN 60079-29-4	-
IEC 60654	https://sta series	undards.iteh.ai/catalog/standards/sist/e41245f3-6850-48 Operating conditions for industrial process measurement and control equipment	EN 60654	series
IEC 61207-1	-	Expression of performance of gas analyzers - Part 1: General	EN 61207-1	-
IEC 61207-7	-	Expression of performance of gas analyzers - Part 7: Tuneable semiconductor laser gas analyzers	EN 61207-7	-
ISO 9001	-	Quality management systems - Requirements	EN ISO 9001	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

EXPRESSION OF PERFORMANCE OF GAS ANALYZERS -

Part 6: Photometric analyzers

FOREWORD

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International Standard IEC 61207-6 has been prepared by sub-committee 65B: Measurement and control devices, of IEC technical committee 65: Industrial-process measurement, control and automation.

This second edition cancels and replaces the first edition published in 1994. This edition constitutes a technical revision.

The major changes with respect to the previous edition are as follows.

- All references (normative and informative) have been updated, deleted or added to as appropriate.
- All the terms and definitions relating to the document have been updated where appropriate.
- New definitions have been added for generic photometric equipment and measurements.

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 All references to "errors" have been replaced by "uncertainties" and appropriate updated definitions applied.

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- Figures A.1, A.2 and A.4 have been updated.

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

FDIS	Report on voting	
65B/947/FDIS	65B/956/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.

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

A list of all parts in the IEC 61207 series, published under the general title *Expression of performance of gas analyzers*, 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 web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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INTRODUCTION

Photometric analyzers utilize detectors which respond to wavelengths in the ultraviolet, visible and infrared part of the electromagnetic spectrum within the wavelength range 0,1 μ m to 50 μ m (see Figure A.1). Within this range of wavelengths, many gases have absorption and/or emission bands. Analyzers designed to utilize these bands employ several techniques, including sensing of specific absorbed radiation by the sample gas or emitted radiation from the gas sample after artificial excitation. The volume of gas measured may be contained within a sample cell and this sample may or may not be conditioned, or (for in-situ analyzers) the concentration may be directly measured within the sample gas itself (see Figure A.2).

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