

საქართველოს სტანდარტი

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English version

**Programmable controllers -
Part 3: Programming languages
(IEC 61131-3:2013)**

Automates programmables -
Partie 3: Langages de programmation
(CEI 61131-3:2013)

Speicherprogrammierbare Steuerungen -
Teil 3: Programmiersprachen
(IEC 61131-3:2013)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 65B/858/FDIS, future edition 3 of IEC 61131-3, prepared by IEC TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61131-3:2013.

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) 2013-12-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-03-27

This document supersedes EN 61131-3:2003.

EN 61131-3:2013 includes the following significant technical changes with respect to EN 61131-3:2003:

EN 61131-3:2013 is a compatible extension of EN 61131-3:2003. The main extensions are new data types and conversion functions, references, name spaces and the object oriented features of classes and function blocks. See Annex B.

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

IEC 60848	NOTE	Harmonised as EN 60848.
IEC 61499 series	NOTE	Harmonised in EN 61499 series.

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 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 61131-1	-	Programmable controllers - Part 1: General information	EN 61131-1	-
IEC 61131-5	-	Programmable controllers - Part 5: Communications	EN 61131-5	-
ISO/IEC 10646	2012	Information technology - Universal Coded Character Set (UCS)	-	-
ISO/IEC/IEEE 60559-		Information technology - Microprocessor Systems - Floating-Point arithmetic	-	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Programmable controllers –
Part 3: Programming languages**

**Automates programmables –
Partie 3: Langages de programmation**





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Edition 3.0 2013-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Programmable controllers –
Part 3: Programming languages**

**Automates programmables –
Partie 3: Langages de programmation**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

PROGRAMMABLE CONTROLLERS –

Part 3: Programming languages

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International Standard IEC 61131-3 has been prepared by subcommittee 65B: Measurement and control devices, of IEC technical committee 65: Industrial-process measurement, control and automation.

This third edition of IEC 61131-3 cancels and replaces the second edition, published in 2003. This edition constitutes a technical revision.

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

This third edition is a compatible extension of the second edition. The main extensions are new data types and conversion functions, references, name spaces and the object oriented features of classes and function blocks. See Annex B.

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

FDIS	Report on voting
65B/858/FDIS	65B/863/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 the parts in the IEC 61131 series, published under the general title *Programmable controllers* 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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