

**SLOVENSKI
STANDARD**

SIST EN 61131-3:1998

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november 1998

Programmable controllers - Part 3: Programming languages (IEC 61131-3:1993)

**iTeh STANDARD PREVIEW
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SIST EN 61131-3:1998

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ENGLISH VERSION

Programmable controllers
Part 3: Programming languages
(IEC 1131-3:1993)

Automates programmables
Partie 3: Langages de
programmation
(CEI 1131-3:1993)

Speicherprogrammierbare
Steuerungen
Teil 3: Programmiersprachen
(IEC 1131-3:1993)

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This European Standard was approved by CENELEC on 1993-07-06.
CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations
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SISTEN 61131-3:1998
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Up-to-date lists and bibliographical references concerning such national standards
may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German).
A version in any other language made by translation under the responsibility of
a CENELEC member into its own language and notified to the Central Secretariat
has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium,
Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg,
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CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

FOREWORD

The text of document 65B(CO)85, as prepared by sub-committee 65B: Devices, of IEC technical committee 65: Industrial-process measurement and control, was submitted to the IEC-CENELEC parallel vote in February 1992.

The reference document was approved by CENELEC as EN 61131-3 on 6 July 1993.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1994-07-01
- latest date of withdrawal of conflicting national standards (dow) 1994-07-01

Annexes designated "normative" are part of the body of the standard. Annexes designated "informative" are given only for information. In this standard, annexes A, B, C, D, E and ZA are normative and annexes F, G and H are informative.

SIST EN 61131-3:1998
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ENDORSEMENT NOTICE

The text of the International Standard IEC 1131-3:1993 was approved by CENELEC as a European Standard without any modification.

ANHANG ZA (normativ)

ANDERE IN DIESER NORM ZITIERTE INTERNATIONALE PUBLIKATIONEN
MIT VERWEISUNGEN DER ENTSPRECHENDEN EUROPÄISCHEN PUBLIKATIONEN

Wenn die internationale Publikation durch gemeinsame Änderungen von CENELEC
geändert wurde, durch (mod) angegeben, gelten die entsprechenden EN/HD.

IEC-Publikation	Datum	Titel	EN/HD	Datum
50	-	International Electrotechnical Vocabulary (IEV)	-	-
559	1989	Binary floating-point arithmetic for microprocessor systems	HD 592 S1	1991
617-12	1991	Graphical symbols for diagrams Part 12: Binary logic elements	-	-
617-13	1978*	Part 13: Analogue elements	-	-
848	1988	Preparation of function charts for control systems (Corrigendum 1990)	-	-

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Andere Publikationen

SIST EN 61131-3:1998

- ISO/AFNAR:1989 - Preparation of function charts for control systems
ISO/IEC 646:1991 - Information technology - ISO 7-bit coded character set for information processing interchange
ISO 8601:1988 - Data elements and interchange formats - Information interchange Representations of dates and times

* IEC 617-13:1993 wurde als EN 60617-13:1993 harmonisiert

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Programmable controllers –

Part 3: Programming languages

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**Commission Électrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

PROGRAMMABLE CONTROLLERS -

Part 3: Programming languages

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

This part of International Standard IEC 1131 has been prepared by sub-committee 65B: Devices, of IEC technical committee 65: Industrial-process measurement and control.
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The text of this standard is based on ~~IEC 1131-2~~:

<https://standards.iteh.ai/catalog/standards/sist/e5ad9fed-4994-41b7-aca8-92ec3ac54c18/sis-en-61131-3-1998>

DIS	Report on Voting
65B(CO)85	65B(CO)87

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

IEC 1131 will consist of the following parts, of which this is the third under the general title: Programmable controllers.

- Part 1: 1992, General information.
- Part 2: 1992, Equipment requirements and tests.
- Part 3: 1993, Programming languages.
- Part 4, User guidelines (*under consideration*).
- Part 5, Messaging service specification (*under consideration*).

Annexes A, B, C, D and E form an integral part of this part of IEC 1131.
 Annexes F, G and H are for information only.

A type 2 technical report (TR) will provide "pre-standardization" guidance for the implementation and application of the programming language defined in this part of IEC 1131, including such issues as operating system/program interaction and requirements for programming support environments.

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PROGRAMMABLE CONTROLLERS -**Part 3: Programming languages****1 General****1.1 Scope**

This part of IEC 1131 applies to the printed and displayed representation, using characters of the ISO/IEC 646 character set, of the programming languages to be used for Programmable Controllers as defined in Part 1 of IEC 1131. Graphic and semigraphic representation of the language elements which are defined in this part is allowed, but is not defined in this part.

The functions of program entry, testing, monitoring, operating system, etc., are specified in Part 1 of IEC 1131.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 1131. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 1131 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

92ec3ac54c18/sist-en-61131-3-1998

IEC 50: International Electrotechnical Vocabulary (IEV)

IEC 559: 1989, Binary floating-point arithmetic for microprocessor systems

IEC 617-12: 1991, Graphical symbols for diagrams – Part 12: Binary logic elements

IEC 617-13: 1978, Graphical symbols for diagrams – Part 13: Analogue elements

IEC 848: 1988, Preparation of function charts for control systems

ISO/AFNOR: 1989, Dictionary of computer science, ISBN 2-12-486911-6

ISO/IEC 646: 1991, Information technology – ISO 7-bit coded character set for information processing interchange

ISO 8601: 1988, Data elements and interchange formats – Information interchange – Representations of dates and times