



**SLOVENSKI STANDARD**  
**SIST-TS CLC/TS 62603-1:2015**  
**01-september-2015**

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**Sistemi za upravljanje industrijskih procesov - Vodila za ocenjevanje sistemov za upravljanje procesa - 1. del: Specifikacije (IEC/TS 62603-1:2014)**

Industrial process control systems - Guidelines for evaluating process control systems - Part 1: Specifications (IEC/TS 62603-1:2014)

Industrielle Prozessleitsysteme - Richtlinie für die Beurteilung der Leistung von Prozessleitsystemen - Teil 1: Festlegungen (IEC/TS 62603-1:2014)

Systèmes de commande des processus industriels - Lignes directrices pour l'évaluation des systèmes de commande de processus - Partie 1: Spécifications (CEI/TS 62603-1:2014)

**Ta slovenski standard je istoveten z: CLC/TS 62603-1:2014**

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**ICS:**

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
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**SIST-TS CLC/TS 62603-1:2015**                      **en**



ICS 25.040.40

English Version

**Industrial process control systems - Guideline for evaluating  
process control systems - Part 1: Specifications  
(IEC/TS 62603-1:2014)**

Systèmes de commande des processus industriels - Lignes  
directrices pour l'évaluation des systèmes de commande de  
processus - Partie 1: Spécifications  
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Industrielle Prozessleitsysteme - Richtlinie für die  
Beurteilung der Leistung von Prozessleitsystemen - Teil 1:  
Festlegungen  
(IEC/TS 62603-1:2014)

This Technical Specification was approved by CENELEC on 2013-06-26.

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Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## **Foreword**

The text of document 65B/875/DTS, future edition 1 of IEC/TS 62603-1, 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 CLC/TS 62603-1:2014.

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## **Endorsement notice**

The text of the Technical Specification IEC/TS 62603-1:2014 was approved by CENELEC as a Technical Specification without any modification.

**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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60038 (mod)	2009	IEC standard voltages	EN 60038	2011
IEC 60050	series	International Electrotechnical Vocabulary	-	series
IEC 60079-10	-	Electrical apparatus for explosive gas atmospheres -- Part 10: Classification of hazardous areas	EN 60079-10	-
IEC 60079-10-1	-	Explosive atmospheres -- Part 10-1: Classification of areas - Explosive gas atmospheres	EN 60079-10-1	-
IEC 60079-10-2	-	Explosive atmospheres -- Part 10-2: Classification of areas - Combustible dust atmospheres	EN 60079-10-2	-
IEC 60079-11	-	Electrical apparatus for explosive gas atmospheres -- Part 11: Intrinsic safety "i"	EN 60079-11	-
IEC 60079-14	-	Explosive atmospheres -- Part 14: Electrical installations design, selection and erection	EN 60079-14	-
IEC 60300-3-4	-	Dependability management -- Part 3-4: Application guide - Guide to the specification of dependability requirements	EN 60300-3-4	-
IEC 60654-1	-	Industrial-process measurement and control equipment - Operating conditions -- Part 1: Climatic conditions	EN 60654-1	-
IEC 60654-2	-	Operating conditions for industrial-process measurement and control equipment -- Part 2: Power	EN 60654-2	-
IEC 60654-3	-	Operating conditions for industrial-process measurement and control equipment -- Part 3: Mechanical influences	EN 60654-3	-
IEC 60654-4	-	Operating conditions for industrial-process measurement and control equipment -- Part 4: Corrosive and erosive influences	EN 60654-4	-
IEC 60721-3-1	-	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities -- Section 1: Storage	EN 60721-3-1	-
IEC 60721-3-2	-	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities -- Section 2: Transportation	EN 60721-3-2	-
IEC 60721-3-3	-	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities -- Section 3: Stationary use at weatherprotected locations	EN 60721-3-3	-

IEC 60721-3-4	-	Classification of environmental conditions - EN 60721-3-4 - Part 3: Classification of groups of environmental parameters and their severities -- Section 4: Stationary use at non-weatherprotected locations	-
IEC 60848	-	GRAFCET specification language for sequential function charts	EN 60848 -
IEC 60870-4	-	Telecontrol equipment and systems -- Part HD 546.4 S1 4: Performance requirements	-
IEC 61000-4-2	-	Electromagnetic compatibility (EMC) -- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2 -
IEC 61000-4-3	-	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3 -
IEC 61000-4-4	-	Electromagnetic compatibility (EMC) -- Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4 -
IEC 61000-4-5	-	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	FprEN 61000-4-5 -
IEC 61000-4-6	-	Electromagnetic compatibility (EMC) -- Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6 -
IEC 61000-4-8	-	Electromagnetic compatibility (EMC) -- Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	EN 61000-4-8 -
IEC 61000-4-9	-	Electromagnetic compatibility (EMC) -- Part 4-9: Testing and measurement techniques - Pulse magnetic field immunity test	EN 61000-4-9 -
IEC 61000-4-10	-	Electromagnetic compatibility (EMC) -- Part 4-10: Testing and measurement techniques - Damped oscillatory magnetic field immunity test	EN 61000-4-10 -
IEC 61000-4-11	-	Electromagnetic compatibility (EMC) -- Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11 -
IEC 61000-6-4	-	Electromagnetic compatibility (EMC) -- Part 6-4: Generic standards - Emission standard for industrial environments	EN 61000-6-4 -
IEC 61025	-	Fault Tree Analysis (FTA)	EN 61025 -
IEC 61069-1	-	Industrial-process measurement and control - Evaluation of system properties for the purpose of system assessment -- Part 1: General considerations and methodology	EN 61069-1 -
			+EN 61069-1:1993/corrigendum Nov. 1993 1993

IEC 61069-4	-	Industrial process measurement and control - Evaluation of system properties for the purpose of system assessment -- Part 4: Assessment of system performance	EN 61069-4	-
IEC 61069-5	-	Industrial-process measurement and control - Evaluation of system properties for the purpose of system assessment -- Part 5: Assessment of system dependability	EN 61069-5	-
IEC 61069-6	-	Industrial-process measurement and control - Evaluation of system properties for the purpose of system assessment -- Part 6: Assessment of system operability	EN 61069-6	-
IEC 61069-7	-	Industrial-process measurement and control - Evaluation of system properties for the purpose of system assessment -- Part 7: Assessment of system safety	EN 61069-7	-
IEC 61069-8	-	Industrial-process measurement and control - Evaluation of system properties for the purpose of system assessment -- Part 8: Assessment of non-task-related system properties	EN 61069-8	-
IEC 61078	-	Analysis techniques for dependability - Reliability block diagram and Boolean methods	EN 61078	-
IEC 61131-2	-	Programmable controllers -- Part 2: Equipment requirements and tests	EN 61131-2	-
IEC 61131-3	-	Programmable controllers -- Part 3: Programming languages	EN 61131-3	-
IEC 61140	-	Protection against electric shock - Common aspects for installation and equipment	EN 61140	-
IEC 61158	series	Industrial communication networks - Fieldbus specifications	FprEN 61158	series
IEC 61326-1	-	Electrical equipment for measurement, control and laboratory use - EMC requirements -- Part 1: General requirements	EN 61326-1	-
IEC 61508	series	Functional safety of electrical/electronic/programmable electronic safety-related systems	EN 61508	series
IEC 61511	series	Batch control	EN 61511	series
IEC 61512	series		EN 61512	series
IEC 61784	series		EN 61784	series
IEC 62305-1 (mod)	-	Protection against lightning -- Part 1: General principles	EN 62305-1	-
IEC 62347	-	Guidance on system dependability specifications	+AA EN 62347	201X -
IEC 62381	-	Automation systems in the process industry - Factory acceptance test (FAT), site acceptance test (SAT) and site integration test (SIT)	EN 62381	-
IEC 62443-2-1	-	Industrial communication networks - Network and system security -- Part 2-1: Establishing an industrial automation and control system security program	-	-

IEC 62443-3-3	-	Industrial communication networks - Network and system security - Part 3-3: System security requirements and security levels	-	-
IEC/TR 62380	-	Reliability data handbook - Universal model for reliability prediction of electronics components, PCBs and equipment	-	-
ISO/IEC 14764	2006	Software Engineering - Software Life Cycle- Processes - Maintenance	-	-
IEEE 802.11	-	IEEE Standard for Information technology- Telecommunications and information exchange between systems-Local and metropolitan area networks-Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications	-	-
ISA 18.1- 1979(R1992)	-	annunciator sequences and specifications	-	-
ISA 18.2-2009	-	Management of alarm systems for the process industries	-	-
ISA 37.1-1975 (R1982)	-	Electrical Transducer Nomenclature & Terminology	-	-
ISA S88	-	Batch control	-	-





IEC TS 62603-1

Edition 1.0 2014-05

# TECHNICAL SPECIFICATION



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**Industrial process control systems – Guideline for evaluating process control systems –  
Part 1: Specifications**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

PRICE CODE **XE**

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ICS 25.040.40

ISBN 978-2-8322-1623-1

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