

Irish Standard I.S. EN 62708:2015

Document kinds for Electrical and Instrumentation Projects in the Process Industry

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I.S. EN 62708:2015

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EUROPEAN STANDARD

EN 62708

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2015

ICS 01.110; 25.040.40

English Version

Document kinds for Electrical and Instrumentation Projects in the Process Industry (IEC 62708:2015)

Types de documents pour les projets relatifs aux systèmes électriques et aux instruments de fonctionnement dans l'industrie de transformation (IEC 62708:2015) Dokumente für die Elektro- und Leittechnik-Planung in Projekten der verfahrenstechnischen Industrie (IEC 62708:2015)

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

- 2 -

Foreword

The text of document 65/580/FDIS, future edition 1 of IEC 62708, 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 62708:2015.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national	(dop)	2016-01-01
•	standard or by endorsement latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2018-04-01

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

ISO 7200 NOTE Harmonized as EN ISO 7200.
IEC 81346-1 NOTE Harmonized as EN 81346-1.

- 3 -

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 IEC 60079-10-1	<u>Year</u> -	<u>Title</u> Explosive atmospheres Part 10-1: Classification of areas - Explosive gas	<u>EN/HD</u> EN 60079-10-1	<u>Year</u> -
		atmospheres		
IEC 60079-11	-	Electrical apparatus for explosive gas atmospheres Part 11: Intrinsic safety "i"	-	-
IEC 60617	_	Standard data element types with	-	_
		associated classification scheme for electric		
		components Part 4: IEC reference		
		collection fo standard data element types		
IEO 04000 4		and component classes	EN 04000 4	
IEC 61082-1	-	Preparation of documents used in electrotechnology - Part 1: Rules	EN 61082-1	-
IEC 61131-3	_	Programmable controllers - Part 3:	EN 61131-3	_
120 01101 0		Programming languages	214 01 101 0	
IEC 61355	series	Classification and designation of documents	EN 61355	series
		for plants, systems and equipment		
IEC 61355-1	2008	Classification and designation of documents	EN 61355-1	2008
		for plants, systems and equipment Part 1:		
IEC 61511	oorioo	Rules and classification tables	EN 61511	aorica
IEC 01311	series	Functional safety - Safety instrumented systems for the process industry sector	EN 61511	series
		Part 2: Guidelines for the application of IEC		
		61511-1		
IEC 61987-10	-	Industrial-process measurement and control	EN 61987-10	-
		- Data structures and elements in process		
		equipment catalogues Part 10: Lists of		
		properties (LOPs) for industrial-process measurement and control for electronic data		
		exchange - Fundamentals		
_	_	exertaings in amacimentals	+AC	_
IEC 62337	-	Commissioning of electrical, instrumentation	EN 62337	-
		and control systems in the process industry	-	
IEO 00004		Specific phases and milestones	EN 00004	
IEC 62381	-	Automation systems in the process industry	EN 62381	-
		 Factory acceptance test (FAT), site acceptance test (SAT) and site integration 		
		test (SIT)		
		` '		

EN 62708:2015 - 4 -

IEC 62424	-	Representation of process control engineering - Requests in P&I diagrams and data exchange between P&ID tools and PCE-CAE tools	EN 62424 d	-
IEC 82079-1	-	Preparation of instructions for use - Structuring, content and presentation Part 1: General principles and detailed requirements	EN 82079-1 t	-
ISO 10006	-	Quality management systems Guidelines for quality management in projects	-	-
ISO 10628	-	Flow diagrams for process plants Genera rules	I EN ISO 10628	-



IEC 62708

Edition 1.0 2015-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Document kinds for electrical and instrumentation projects in the process industry

Types de documents pour les projets relatifs aux systèmes électriques et aux instruments de fonctionnement dans l'industrie de transformation





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IEC 62708

Edition 1.0 2015-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Document kinds for electrical and instrumentation projects in the process industry

Types de documents pour les projets relatifs aux systèmes électriques et aux instruments de fonctionnement dans l'industrie de transformation

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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CONTENTS

FOREWORD	4
INTRODUCTION	6
1 Scope	7
2 Normative references	7
3 Terms, definitions, abbreviated terms and acronyms	8
3.1 Terms and definitions	8
3.2 Abbreviated terms and acronyms	
4 Conformity	
4.1 Document	
4.2 Document request	
Annex A (informative) Names of document kinds in different languages	
Annex B (informative) Examples	
Bibliography	
bibliography	70
Figure B.1 – AB001 list of documents	30
Figure B.2 – BB001 punch list	
Figure B.3 – BE001 manpower mobilization plan	
Figure B.4 – DA001 instrument data sheet	
Figure B.5 – DC001 test and maintenance recommendations	
Figure B.6 – DZ001 test and maintenance requirements	
Figure B.7 – EC002 electrical consumer list	
Figure B.8 – EC008 heating circuit list	
Figure B.9 – EC009 requirement specification	
Figure B.10 – EC010 specification sheet	
Figure B.11 – EC011 loop list	
Figure B.12 – EC014 construction bill of quantities	
Figure B.13 – EC015 specification E&I process connections	
Figure B.14 – ED006 Ex-i calculation sheet	
Figure B.15 – ED007 heat dissipation summary	
Figure B.16 – FA001 electrical single line diagram	
Figure B.17 – FA002 structure diagram DCS-PLC-SIS	
Figure B.18 – FB001 piping and instrumentation diagram (P&ID)	
Figure B.19 – FE001 function description	
Figure B.20 – FF001 function block diagram	
Figure B.21 – FF002 cause and effect matrix	
Figure B.22 – FP001 signal list	
Figure B.23 – FP002 I/O list	
Figure B.24 – FQ001 trip point list	
Figure B.25 – FQ002 configuration parameter list	
Figure B.26 – FS002 loop diagram	
Figure B.27 – FS003 bus layout drawing	
, , , , , , , , , , , , , , , , , , , ,	

IEC 62708:2015 © IEC 2015 — 3 —

Figure B.28 – LD003 plot plan E&I	57
Figure B.29 – LD006 arrangement drawing	58
Figure B.30 – LU001 cabinet layout drawing	59
Figure B.31 – MA001 terminal connection diagram	60
Figure B.32 – MA003 conceptual wiring diagram	61
Figure B.33 – MB001 cable list	62
Figure B.34 – MB002 cable laying list	63
Figure B.35 – PA001 material take off	64
Figure B.36 – PB001 spare parts list	65
Figure B.37 – PB002 instrument index	66
Figure B.38 – PD001 system log book	67
Figure B.39 – TC001 installation drawing (hook up)	68
Figure B.40 – TC002 assembly drawing	69
Table 1 – Document kinds	11
Table A.1 – Names of document kinds in English and French	
Table A 2 - Names of document kinds in Chinese and German	

INTERNATIONAL ELECTROTECHNICAL COMMISSION

DOCUMENT KINDS FOR ELECTRICAL AND INSTRUMENTATION PROJECTS IN THE PROCESS INDUSTRY

FOREWORD

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International Standard IEC 62708 has been prepared by IEC technical committee 65: Industrial-process measurement, control and automation.

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

FDIS	Report on voting
65/580/FDIS	65/583/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.

-4 -

- 5 -

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INTRODUCTION

The engineering in the process industry is driven by international cooperation. Due to economic reasons, special know-how, special licence, authorization or simply capacity utilisation the work is split between partners. They will arrange their cooperation for each individual project differently. This requires well defined split of work and responsibilities. Documents are the basis for these definitions since they are the result of any engineering work.

If there is only the name of a document without further description of form and content, it will be likely that each partner develops their own view of the result of their efforts. Therefore, for each project the definition of deliverable documents is a major issue. The name of a document is often used for similar but in detail different documents. This standard will take the most commonly used name from synonymous names as the document kind name, intending to make other alternatives obsolete.

The first aim of this standard is to avoid misunderstandings and erroneous elaboration of documents in order to reduce additional corrective works and expenses for clarification between partners.

The second aim is to provide the convenience of document handling by using the IEC 61355 database. This standard will provide document kind names, document kind classification codes specified by IEC 61355, and some templates.

To cover these aims, we specify individual document kind names, but do not specify which documents are mandatory or optional.

- 6 **-**

-7-

DOCUMENT KINDS FOR ELECTRICAL AND INSTRUMENTATION PROJECTS IN THE PROCESS INDUSTRY

1 Scope

This International Standard defines specific documents and their basic content required for electrical and instrumentation projects in the process industry.

This standard specifies the document kind name and the mandatory content of the document kind.

Documents used in the phases of a project from the concept phase to the mechanical completion are covered (see IEC 62337).

Documents for project management and quality assurance are included.

Documents for commercial project administration are excluded.

Examples of documents are provided for easy reference, understanding and usage.

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 60617, Graphical symbols for diagrams

IEC 60079-10-1, Explosive atmospheres – Part 10-1: Classification of areas – Explosive gas atmospheres

IEC 60079-11, Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i"

IEC 61082-1, Preparation of documents used in electrotechnology - Part 1: Rules

IEC 61131-3, Programmable controllers – Part 3: Programming languages

IEC 61355 (all parts), Classification and designation of documents for plants, systems and equipment

IEC 61355-1:2008, Classification and designation of documents for plants, systems and equipment – Part 1: Rules and classification tables

IEC 61511 (all parts), Functional safety – Safety instrumented systems for the process industry sector

IEC 61987-10, Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 10: Lists of properties (LOPs) for industrial-process measurement and control for electronic data exchange – Fundamentals

-8-

IEC 62337, Commissioning of electrical, instrumentation and control systems in the process industry – Specific phases and milestones

IEC 62381, Automation systems in the process industry – Factory acceptance test (FAT), site acceptance test (SAT), and site integration test (SIT)

IEC 62424, Representation of process control engineering – Requests in P&I diagrams and data exchange between P&ID tools and PCE-CAE tools

IEC 82079-1, Preparation of instructions for use – Structuring, content and presentation – Part 1: General principles and detailed requirements

ISO 10006, Quality management systems - Guidelines for quality management in projects

ISO 10628. Flow diagrams for process plants – General rules

3 Terms, definitions, abbreviated terms and acronyms

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1

activity

smallest identified item of work in a project

[SOURCE: ISO 10006: 2003, 3.1]

3.1.2

document

fixed and structured amount of information intended for human perception that can be managed and interchanged as a unit between users and systems

[SOURCE: IEC 61355-1: 2008, 3.2, modified – notes removed for easy understanding.]

3.1.3

document kind

type of document defined with respect to its specified content of information and form of presentation

[SOURCE: IEC 61355-1: 2008, 3.6, modified – note removed for easy understanding.]

3.1.4

document request

document which requests to prepare or provide a set of documents

3.1.5

documentation

collection of documents related to a given subject

[SOURCE: IEC 61355-1: 2008, 3.5, modified – notes removed for easy understanding.]

3.1.6

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