

Irish Standard I.S. EN 61175-1:2015

Industrial systems, installations and equipment and industrial products - Designation of signals - Part 1: Basic rules

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#### I.S. EN 61175-1:2015

2015-09-15

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This document is based on: Published:

EN 61175-1:2015 2015-08-28

This document was published ICS number:

under the authority of the NSAI
and comes into effect on:

and comes into effect on: 29.020

NOTE: If blank see CEN/CENELEC cover page

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I.S. EN 61175-1:2015 is the adopted Irish version of the European Document EN 61175-1:2015, Industrial systems, installations and equipment and industrial products - Designation of signals - Part 1: Basic rules

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**EUROPEAN STANDARD** 

EN 61175-1

NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

August 2015

ICS 29.020

Supersedes EN 61175:2005

#### **English Version**

# Industrial systems, installations and equipment and industrial products - Designation of signals - Part 1: Basic rules (IEC 61175-1:2015)

Systèmes, installations, appareils et produits industriels -Désignation des signaux - Partie 1: Règles de base (IEC 61175-1:2015) Industrielle Systeme, Anlagen und Ausrüstungen und Industrieprodukte, Kennzeichnung von Signalen -Teil 1: Allgemeine Regeln (IEC 61175-1:2015)

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

#### **European foreword**

The text of document 3/1214A/FDIS, future edition 1 of IEC 61175-1, prepared by IEC/TC 3 "Information structures and elements, identification and marking principles, documentation and graphical symbols" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61175-1:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2018-06-25 the document have to be withdrawn

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

IEC 60027	NOTE	Harmonized in EN 60027 series.
IEC 60445	NOTE	Harmonized as EN 60445.
IEC 60447	NOTE	Harmonized as EN 60447.
IEC 60747	NOTE	Harmonized in EN 60747 series.
IEC 61131	NOTE	Harmonized in EN 61131 series.
IEC 61355-1	NOTE	Harmonized as EN 61355-1.
IEC 61360-1	NOTE	Harmonized as EN 61360-1.
IEC 61666	NOTE	Harmonized as EN 61666.
IEC 61850	NOTE	Harmonized in EN 61850 series.
IEC 62491	NOTE	Harmonized as EN 62491.

#### EN 61175-1:2015

IEC 62744	NOTE	Harmonized as EN 62744.
IEC 81346-2	NOTE	Harmonized as EN 81346-2.
IEC 80000	NOTE	Harmonized in EN 80000 series.
ISO 21549-7:2007	NOTE	Harmonized as EN ISO 21549-7:2007 (not modified).
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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: <a href="https://www.cenelec.eu">www.cenelec.eu</a>.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 61082-1	-	Preparation of documents used in electrotechnology - Part 1: Rules	EN 61082-1	-
IEC 81346-1	-	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 1: Basic rules	EN 81346-1	-
IEC/TS 62720	-	Identification of units of measurement for computer-based processing	-	-



IEC 61175-1

Edition 1.0 2015-05

## INTERNATIONAL STANDARD

## NORME INTERNATIONALE



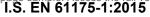
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NORME HORIZONTALE

Industrial systems, installations and equipment and industrial products – Designation of signals – Part 1: Basic rules

Systèmes, installations, appareils et produits industriels – Désignation des signaux – Partie 1: Règles de base







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IEC 61175-1

Edition 1.0 2015-05

### INTERNATIONAL STANDARD

### NORME INTERNATIONALE



HORIZONTAL STANDARD

NORME HORIZONTALE

Industrial systems, installations and equipment and industrial products – Designation of signals –

Part 1: Basic rules

Systèmes, installations, appareils et produits industriels – Désignation des signaux – Partie 1: Règles de base

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ICS 29.020 ISBN 978-2-8322-2677-3

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### CONTENTS

**-2-**

FC	REWO	RD	5
IN	TRODU	CTION	7
1	Scop	e	8
2	Norm	ative references	8
3	Term	s and definitions	8
4	Basic	principles	. 11
	4.1	General principles on signal transfer and signal naming	
	4.2	Signal classification	
	4.3	Signal name domain	
5	Desig	gnation of signals	14
	5.1	Structure of the signal designation	14
	5.1.1	General	
	5.1.2	Object designation	. 15
	5.1.3	Prefix	. 15
	5.1.4	Signal name	. 16
	5.1.5	Signal connection identifier	19
	5.1.6	ŭ	
	5.2	Recommended characters	
	5.3	Forming signal designations	
	5.3.1	Reporting signals	
_	5.3.2	5 5	
6		ification of signals in the signal connection network	
	6.1	General	
	6.2	Pre-defined signal names	
	6.3	Grouping of signals	
	6.3.1	General	
	6.3.2		
7	6.3.3		
7	_	al identification in interfaces for data exchange	
	7.1	General	
	7.2	Interface between electric circuit and programmable devices, I/O	
0	7.3	Interface for logic communication	
8	•	al presentation	
	8.1	Representation vs. presentation of a signal designation	
	8.2	Human machine interface, HMI	
	8.3 8.4	Presentation in documentation	
Δr		normative) Letter codes for use in signal names	
/\l	A.1	Letter codes for variables	
	A.1 A.2	Letter codes used as modifiers	
	A.2 A.3	Identification of certain designated conductors	
Δn		informative) Binary logic representation	
, vi	B.1	General	
	B.2	Negated signal	
Δr		informative) Examples for signal lists including signal connection identifiers	
/٦!		informative, Examples for signal lists including signal conficction identifiers	. 01

C.1 Presentation of voltage measurement signal, class M	37
C.2 Presentation of a controlling signal, class C	
Annex D (informative) Generic communication needs in a process	
D.1 Process model	
D.2 Signal connection and signal presentation media	
D.2.1 General	
D.2.2 Wiring	
D.2.3 Internal bus	
D.2.4 External bus	
D.2.5 Presentation in the human interface, HMI	
D.2.6 Other human presentation	
D.3 Applicability of signal designations	
D.3.2 In control devices (with internal numerical communication)	
D.3.3 In external communication	
D.3.4 In the HMI	
Annex E (informative) Restructuring of information for communication purposes	
E.1 General	
E.2 Data objects	
E.2.1 Packing of data	
E.2.2 Object designation and address structure	
E.2.3 Information content (Information object)	
E.2.4 Descriptive parameters	
Annex F (normative) Data element type definitions	
F.1 General	
F.2 Source definitions of DETs and classes of DETs in this part of IEC 61175	
F.2.1 Definitions of classes of DETs	
F.2.2 Definition of DETs associated with class AAF525	_
F.2.3 Definition of DETs associated with class AAF526	
Bibliography	
Figure 1 – Illustration of relationship of terminology	7
Figure 2 – Signal with source and destination(s)	
Figure 3 – Information object transmitted via different signal carrying and connection media	11
Figure 4 – Different signals caused by processing/logical linking	
Figure 5 – Relation between controlling and reporting signals	
Figure 6 – Object serving as signal name domain	
Figure 7 – Signal designation and signal connection identification	
Figure 8 – Signal name structure	16
Figure 9 – Examples of reporting type of signals	21
Figure 10 – Example of an indication signal	22
Figure 11 – Example of an event signal	22
Figure 12 – Example of measuring signals	23
Figure 13 – Example of an analogue measuring signal transmitted in different forms	
Figure 14 – Example of signal connection characteristics related to measuring signals.	
Figure 15 – Example of power supply designation	
rigate to - Example of power supply designation	∠+

- 4 - IEC 61175-1:2015 © IEC 2015

Figure 16 – Examples of typical controlling type of signals	25
Figure 17 – Example of a command signal	26
Figure 18 – Example of a signal for setting value	26
Figure 19 – Signal connection identifiers in a single connection network	27
Figure 20 – Example of signal connection identifiers in a current measuring circuit	27
Figure 21 – Signal connection identifiers by internal signal name	28
Figure 22 – Use of concatenated reference designations in a plant	31
Figure 23 – Metadata representing a signal and corresponding XML file	32
Figure B.1 – Signal states of binary signals	35
Figure B.2 – Example of a negated signal	36
Figure C.1 – Voltage measurement, reporting signal class M	38
Figure C.2 – Command signal for a disconnector, controlling signal class C	39
Figure D.1 – Communication model based on IEC 81346-2	40
Figure E.1 – Communication of the signal information as attribute to a data object	43
Table 1 – Letter codes for signal classes	17
Table 2 – Examples of short names	17
Table 3 – Examples of basic signal names	18
Table A.1 – Letter codes for variables based on International Standard 80000,  Quantities and units	33
Table A.2 – Letter codes used as modifiers	
Table A.3 – Identification of certain designated conductors	
Table F.1 – Data attribute examples	4F

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- 5 -

#### INTERNATIONAL ELECTROTECHNICAL COMMISSION

# INDUSTRIAL SYSTEMS, INSTALLATIONS AND EQUIPMENT AND INDUSTRIAL PRODUCTS – DESIGNATION OF SIGNALS –

Part 1: Basic rules

#### **FOREWORD**

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International Standard IEC 61175-1 has been prepared by IEC technical committee 3: Information structures and elements, identification and marking principles, documentation and graphical symbols.

It has the status of a horizontal standard in accordance with IEC Guide 108.

This first edition cancels and replaces the second edition of IEC 61175 published in 2005. This edition constitutes a technical revision.

Further parts of IEC 61175 may be added as Technical Specifications relating to different domains. Additional parts may be application guides for designation of signals in specific applications such as communication protocols and other software systems.

**- 6 -**

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This edition includes the following significant technical changes with respect to IEC 61175:2005:

- an improved description of the principles for use; and
- a strict separation between the physical aspect of a signal and its associated information, focusing on the latter.

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

FDIS	Report on voting
3/1214A/FDIS	3/1221/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 61175 series, published under the general title *Industrial systems*, installations and equipment and industrial products – Designation of signals, 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 website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed.
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- amended.

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**-7-**

#### INTRODUCTION

The intention of this part of IEC 61175 is to establish rules and requirements for the designation of signals, and furthermore to make recommendations on useful presentations of these.

Basically, a signal designation is associated with the signal over its whole lifetime, which means from the beginning of the design stage until the signal is no longer needed.

The change of medium for the transfer of a signal because of a physical rebuilding of an installation will not cause a change of the identification of this signal if its semantic meaning is maintained. Signals represent information. For communication purposes the information has to be represented as data. The information can be more or less complex. In simple cases, the information can be represented as a single Boolean variable, without internal structure. In more complex cases, like in computer communication via data networks, the information can be packaged in more complex objects, with internal structure, which are transferred with suitable protocols. The implementation can be done in different ways depending on which technology, protocol, etc. is being used. Figure 1 illustrates the terminology.

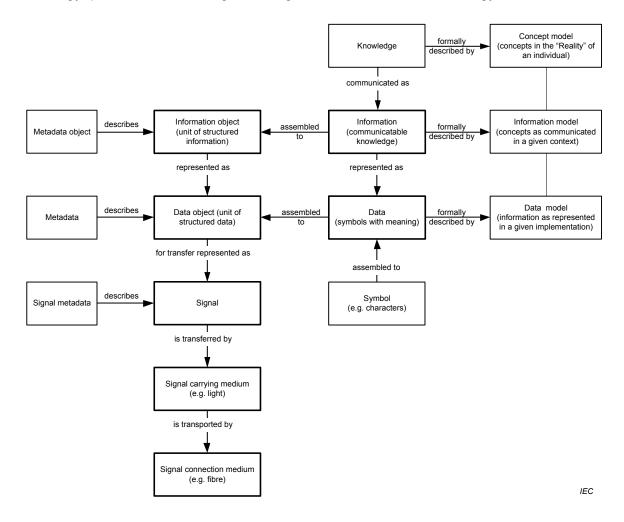


Figure 1 – Illustration of relationship of terminology

The principles described in this part of IEC 61175 are closely related to other International Standards such as IEC 81346-1, IEC 81346-2, IEC 61666 and IEC 81714-3. An information model for the interrelations is provided in IEC TS 62771.

- 8 - IEC 61175-1:2015 © IEC 2015

# INDUSTRIAL SYSTEMS, INSTALLATIONS AND EQUIPMENT AND INDUSTRIAL PRODUCTS – DESIGNATION OF SIGNALS –

Part 1: Basic rules

#### 1 Scope

This part of IEC 61175 provides rules for the composition of designations for the identification of signals and signal connections. This includes the designation of power supply.

This part of IEC 61175 is applicable to all types of signals within an industrial system, installation and equipment and industrial products. It deals with the information aspect of signals and not with their physical implementation.

Excluded from the scope are general rules for the presentation of information in human machine interfaces. This part of IEC 61175 is also not applicable for the identification of wiring, terminals, piping and other hardware connections.

NOTE For the purpose of marking of wires, see IEC 62491.

This horizontal standard is primarily intended for use by technical committees in the preparation of standards in accordance with the principles laid down in IEC Guide 108.

One of the responsibilities of a technical committee is, wherever applicable, to make use of horizontal standards in the preparation of its publications. The contents of this horizontal standard will not apply unless specifically referred to or included in the relevant publications.

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

IEC 81346-1, Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 1: Basic principles

IEC 62720, Identification of units of measurement for computer-based processing

#### 3 Terms and definitions

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

#### 3.1

#### obiect

entity treated in a process of development, implementation, usage and disposal

Note 1 to entry: The object may refer to a physical or non-physical "thing", i.e. anything that might exist, exists or did exist.



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