

# **SLOVENSKI STANDARD**

## **SIST EN 62488-2:2017**

**01-december-2017**

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**Sistemi komunikacij po elektroenergetskih vodih za elektroenergetska podjetja - 2.  
del: Priključki za analogne komunikacijske sisteme (APLC)**

Power line communication systems for power utility applications - Part 2: Analogue  
power line carrier terminals (APLC)

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**Ta slovenski standard je istoveten z: EN 62488-2:2017**  
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**ICS:**

29.240.01	Omrežja za prenos in distribucijo električne energije na splošno	Power transmission and distribution networks in general
33.200	Daljinsko krmiljenje, daljinske meritve (telemetrija)	Telecontrol. Telemetry

**SIST EN 62488-2:2017**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 62488-2**

October 2017

ICS 33.200

English Version

**Power line communication systems for power utility applications  
- Part 2: Analogue power line carrier terminals or APLC  
(IEC 62488-2:2017)**

Systèmes de communication sur lignes d'énergie pour les applications des compagnies d'électricité - Partie 2 : Bornes analogiques à courant porteur en ligne (CPL)  
(IEC 62488-2:2017)

Systeme zur Kommunikation über Hochspannungsleitungen für Anwendungen der elektrischen Energieversorgung - Teil 2: Anschlussgeräte für analoge Nachrichtenübertragung über Hochspannungsleitungen (APLC)  
(IEC 62488-2:2017)

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**EN 62488-2:2017****European foreword**

The text of document 57/1867/FDIS, future edition 1 of IEC 62488-2, prepared by IEC/TC 57 "Power systems management and associated information exchange" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62488-2:2017.

The following dates are fixed:

- latest date by which the document has to be implemented at (dop) 2018-05-30  
national level by publication of an identical national  
standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2020-08-30  
the document have to be withdrawn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 60255-26:2013	NOTE	Harmonized as EN 60255-26:2013.
IEC 60255-151:2009	NOTE	Harmonized as EN 60255-151:2009.
IEC 60495:1993	NOTE	Harmonized as EN 60495:1994.
IEC 60721-3-4:1995	NOTE	Harmonized as EN 60721-3-4:1995.
IEC 60870-5-101	NOTE	Harmonized as EN 60870-5-101.
IEC 60870-5-104	NOTE	Harmonized as EN 60870-5-104.
IEC 61869-2:2012	NOTE	Harmonized as EN 61869-2:2012.
IEC 62351 (series)	NOTE	Harmonized as EN 62351 (series).

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. 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).

Publication	Year	Title	EN/HD	Year
IEC 60038	-	IEC standard voltages	EN 60038	-
IEC 60068-2-1	-	Environmental testing -- Part 2-1: Tests Test A: Cold	-EN 60068-2-1	-
IEC 60068-2-2	-	Environmental testing -- Part 2-2: Tests Test B: Dry heat	-EN 60068-2-2	-
IEC 60068-2-6	-	Environmental testing -- Part 2-6: Tests Test Fc: Vibration (sinusoidal)	-EN 60068-2-6	-
IEC 60068-2-27	-	Environmental testing -- Part 2-27: Tests Test Ea and guidance: Shock	-EN 60068-2-27	-
IEC 60068-2-30	-	Environmental testing -- Part 2-30: Tests Test Db: Damp heat, cyclic (12 h + 12 h cycle)	-EN 60068-2-30	-
IEC 60068-2-31	-	Environmental testing -- Part 2-31: Tests Test Ec: Rough handling shocks, primarily for equipment-type specimens	-EN 60068-2-31	-
IEC 60255-27	2013	Measuring relays and protection equipment -- Part 27: Product safety requirements	EN 60255-27	2014
IEC 60529	-	Degrees of protection provided by- enclosures (IP Code)	-	-
IEC 60721-3-1	1997	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities -- Section 1: Storage	-EN 60721-3-1	1997
IEC 60721-3-2	1997	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities -- Section 2: Transportation	-EN 60721-3-2	1997
+ A1	1995		-	-
IEC 60721-3-3	1994	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	1995
+ A2	1996		+ A2	1997
IEC 60834-1	-	Performance and testing of teleprotection- equipment of power systems -- Part 1: Narrow-band command systems	-	-

## EN 62488-2:2017

IEC 60950-1	-	Information technology equipment - Safety	EN 60950-1	-
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	-	-
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	EN 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 61000-4-11	-	Electromagnetic compatibility (EMC) -- Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	-
IEC 61000-4-16	-	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	EN 61000-4-16	-
IEC 61000-4-17	-	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test	-	-
IEC 61000-4-18	-	Electromagnetic compatibility (EMC) -- Part 4-18: Testing and measurement techniques - Damped oscillatory wave immunity test	EN 61000-4-18	-
IEC 61000-4-20	2010	Electromagnetic compatibility (EMC) -- Part 4-20: Testing and measurement techniques - Emission and immunity testing in transverse electromagnetic (TEM) waveguides	EN 61000-4-20	2010
IEC 61000-4-29	-	Electromagnetic compatibility (EMC) -- Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	EN 61000-4-29	-
IEC 61000-6-2	-	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	EN 61000-6-2	-
IEC 61000-6-4	2006	Electromagnetic compatibility (EMC) -- Part 6-4: Generic standards - Emission standard for industrial environments	EN 61000-6-4	2007

IEC 61000-6-5	2015	Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for equipment used in power station and substation environment	EN 61000-6-5	2015
IEC 62488-1	2012	Power line communication systems for power utility applications -- Part 1: Planning of analogue and digital power line carrier systems operating over EHV/HV/MV electricity grids	EN 62488-1	2013
CISPR 14-1	2016	Electromagnetic compatibility Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	EN 55014-1	2017
CISPR 16-1-1	2015	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus	-	-
CISPR 16-1-2	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2: Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements	EN 55016-1-2	2014
CISPR 16-1-4	2010	Specification for radio disturbance and immunity measuring apparatus and methods -- Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements	EN 55016-1-4	2010
CISPR 16-2-1	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	EN 55016-2-1	2014
CISPR 16-2-3	2016	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	EN 55016-2-3	2017
CISPR 22	2008	Information technology equipment - Radio-disturbance characteristics - Limits and methods of measurement	-	-

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# INTERNATIONAL STANDARD



**Power line communication systems for power utility applications –  
Part 2: Analogue power line carrier terminals or APLC**

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**POWER LINE COMMUNICATION SYSTEMS  
FOR POWER UTILITY APPLICATIONS –****Part 2: Analogue power line carrier terminals or APLC****FOREWORD**

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International Standard IEC 62488-2 has been prepared by IEC technical committee 57: Power systems management and associated information exchange.

This first edition of IEC 62488-2 cancels and replaces the relevant parts of IEC 60663 and IEC 60495, which will be withdrawn at a later date.

This standard is to be used in conjunction with IEC 62488-1.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
57/1867/FDIS	57/1891/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.