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**Električni merilni pretvorniki za pretvarjanje izmeničnih električnih veličin v analogne ali digitalne signale (IEC 60688:2024)**

Electrical measuring transducers for converting AC and DC electrical quantities to analogue or digital signals (IEC 60688:2024)

Elektrische Messumformer zur Umwandlung von elektrischen Wechselstromgrößen und Gleichstromgrößen in analoge oder digitale Signale (IEC 60688:2024)

Transducteurs électriques de mesure convertissant les grandeurs électriques alternatives ou continues en signaux analogiques ou numériques (IEC 60688:2024)

**Ta slovenski standard je istoveten z: EN IEC 60688:2024**

[SIST EN IEC 60688:2025](https://standards.slovenski-institut.si/catalog/standards/sist/60688-2025/en-iec/60688-2025)

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NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 60688**

December 2024

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English Version

**Electrical measuring transducers for converting AC and DC  
electrical quantities to analogue or digital signals  
(IEC 60688:2024)**

Transducteurs électriques de mesure convertissant les  
grandeurs électriques alternatives ou continues en signaux  
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Elektrische Messumformer zur Umwandlung von  
elektrischen Wechselstromgrößen und Gleichstromgrößen  
in analoge oder digitale Signale  
(IEC 60688:2024)

This European Standard was approved by CENELEC on 2024-10-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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European Committee for Electrotechnical Standardization  
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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 60688:2024 (E)****European foreword**

The text of document 85/921/FDIS, future edition 5 of IEC 60688, prepared by TC 85 "Measuring equipment for electrical and electromagnetic quantities" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60688:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-12-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-12-31 document have to be withdrawn

This document supersedes EN 60688:2013 and all of its amendments and corrigenda (if any).

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**Endorsement notice**

The text of the International Standard IEC 60688:2024 was approved by CENELEC as a European Standard without any modification.

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

IEC 60051 (series)	NOTE Approved as EN IEC 60051 (series)
IEC 60051-1	NOTE Approved as EN 60051-1
IEC 60068-2-30	NOTE Approved as EN 60068-2-30
IEC 60255-151	NOTE Approved as EN 60255-151
IEC 60359	NOTE Approved as EN 60359
IEC 60364-4-44	NOTE Approved as HD 60364-4-444
IEC 60381-1:1982	NOTE Approved as HD 452.1 S1:1984 (not modified)
IEC 60664-1	NOTE Approved as EN IEC 60664-1
IEC 61000-4-7	NOTE Approved as EN 61000-4-7
IEC 61010 (series)	NOTE Approved as EN IEC 61010 (series)
IEC 61869 (series)	NOTE Approved as EN IEC 61869 (series)
IEC 62052-11:2020	NOTE Approved as EN IEC 62052-11:2021 (not modified) + A11:2022

## 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 Where 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.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-6	-	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	-
IEC 60068-2-11	-	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist	EN IEC 60068-2-11	-
IEC 60068-2-27	-	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	EN 60068-2-27	-
IEC 60068-2-52	2017	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	EN IEC 60068-2-52	2018
IEC 60228	2023	Conductors of insulated cables	EN IEC 60228	2024
IEC/TR 61000-2-3	-	Electromagnetic compatibility (EMC) - Part 2: Environment - Section 3: Description of the environment - Radiated and non-network-frequency-related conducted phenomena	-	-
IEC 61010-1	2010	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	EN 61010-1	2010
+ A1 (mod)	2016		+ A1	2019
IEC 61010-2-030	2023	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	-	-
IEC 61326-1	2020	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	EN IEC 61326-1	2021

**EN IEC 60688:2024 (E)**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61557-12	2018	Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC. - Equipment for testing, measuring or monitoring of protective measures - Part 12: Power metering and monitoring devices (PMD)	EN IEC 61557-12	2022
+ A1	2021		+ A1	2022
IEC 61558-1	2017	Safety of transformers, reactors, power supply units and combinations thereof - Part 1: General requirements and tests	EN IEC 61558-1	2019
IEC 60664-1	2020	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	2020
IEC 62586-1	2017	Power quality measurement in power supply systems - Part 1: Power quality instruments (PQI)	EN 62586-1	2017
ISO 4628-3	-	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 3: Assessment of degree of rusting	-	-

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IEC 60688

Edition 5.0 2024-08

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Electrical measuring transducers for converting AC and DC electrical quantities to analogue or digital signals**

**Transducteurs électriques de mesure convertissant les grandeurs électriques alternatives ou continues en signaux analogiques ou numériques**

[SIST EN IEC 60688:2025](https://standards.iteh.ai/)

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## CONTENTS

FOREWORD.....	9
INTRODUCTION.....	11
1 Scope.....	12
2 Normative references .....	13
3 Terms and definitions .....	14
3.1 General terms .....	14
3.2 Terms describing transducers .....	15
3.3 Terms describing transducers according to the measurand .....	17
3.4 Terms describing transducers according to their output load .....	18
3.5 Nominal values .....	19
3.6 Terms describing transducers with provisions to be adjusted by users .....	19
3.7 Influence quantities and reference conditions.....	20
3.8 Errors and variations.....	20
3.9 Accuracy, accuracy class, class index.....	21
3.10 Terms related to primary of transducers.....	21
3.11 Terms related to secondary output of transducers.....	22
4 Environmental conditions.....	22
5 Ratings.....	22
6 Requirements for design and construction .....	23
6.1 General.....	23
6.1.1 Transducer general architecture .....	23
6.1.2 Classification of transducers (TRD) .....	23
6.2 Safety requirements.....	24
6.2.1 General .....	24
6.2.2 Protection against electric shocks.....	24
6.2.3 Protection against mechanical hazards.....	25
6.2.4 Resistance to mechanical stress.....	25
6.2.5 Protection against the spread of fire .....	25
6.2.6 Equipment temperature limits and resistance to heat .....	25
6.2.7 Protection against hazards from fluids .....	26
6.2.8 Protection against radiation, including laser sources, and against sonic and ultrasonic pressure .....	26
6.2.9 Protection against liberated gases and substances, explosion and implosion.....	26
6.2.10 Components and subassemblies.....	26
6.2.11 Protection by interlocks .....	26
6.2.12 Hazards resulting from application.....	26
6.2.13 Risk assessment .....	27
6.3 EMC requirements .....	27
6.3.1 General .....	27
6.3.2 Immunity requirements .....	27
6.3.3 Emission requirements .....	28
6.4 Climatic requirements .....	28
6.5 Mechanical requirements .....	28
6.6 Functional requirements.....	28
6.7 Marking requirements .....	28
6.8 Documentation requirements .....	28



7	Type tests .....	29
8	Routine tests .....	29
Annex A (normative) Requirements for TRD1.....		30
A.1	General.....	30
A.2	References for the purposes of this Annex A .....	30
A.3	Terminology for the purposes of this Annex A .....	30
A.4	Environmental conditions .....	30
A.5	Ratings .....	30
A.6	Requirements for design and construction of TRD1.....	31
A.6.1	General .....	31
A.6.2	Safety requirements.....	31
A.6.3	EMC requirements .....	31
A.6.4	Climatic requirements .....	31
A.6.5	Mechanical requirements .....	31
A.6.6	Functional requirements .....	31
A.6.7	Marking requirements .....	39
A.6.8	Documentation requirements .....	42
A.7	Type tests for TRD1.....	42
A.7.1	General .....	42
A.7.2	General additional requirements for type tests for TRD1.....	42
A.7.3	Variations due to auxiliary supply voltage .....	43
A.7.4	Variations due to auxiliary supply frequency .....	44
A.7.5	Variations due to ambient temperature .....	44
A.7.6	Variations due to the frequency of the input quantity(ies).....	45
A.7.7	Variations due to the input voltage.....	46
A.7.8	Variations due to the input current.....	46
A.7.9	Variations due to power factor.....	47
A.7.10	Variation due to output load.....	48
A.7.11	Variations due to distortion of the input quantity(ies).....	49
A.7.12	Variation due to magnetic field of external origin.....	49
A.7.13	Variation due to unbalanced currents.....	50
A.7.14	Variation due to interaction between measuring elements.....	51
A.7.15	Variation due to self-heating .....	52
A.7.16	Variation due to continuous operation.....	52
A.7.17	Variation due to common mode interference .....	53
A.7.18	Variation due to series mode interference.....	53
A.7.19	Permissible excessive inputs .....	54
A.7.20	Impulse voltage tests .....	54
A.7.21	High frequency disturbance test.....	55
A.7.22	Test for temperature rise .....	55
A.7.23	Other tests.....	55
Annex B (normative) Requirements for TRD2.....		56
B.1	General.....	56
B.2	References for the purposes of this Annex B .....	56
B.3	Terminology for the purposes of this Annex B .....	56
B.4	Environmental conditions .....	56
B.4.1	General .....	56
B.4.2	Normal environmental conditions .....	56

B.5	Ratings for TRD2 .....	57
B.5.1	General .....	57
B.5.2	Input ratings .....	57
B.5.3	Output ratings.....	58
B.5.4	General ratings.....	59
B.6	Requirements for design and construction of TRD2.....	61
B.6.1	General .....	61
B.6.2	Safety requirements.....	61
B.6.3	EMC requirements .....	61
B.6.4	Climatic requirements .....	61
B.6.5	Mechanical requirements .....	62
B.6.6	Functional requirements .....	66
B.6.7	Marking requirements .....	73
B.6.8	Documentation requirements .....	74
B.7	Type tests of TRD2 .....	76
B.7.1	General .....	76
B.7.2	Safety tests .....	76
B.7.3	EMC tests.....	76
B.7.4	Climatic tests.....	77
B.7.5	Mechanical tests.....	79
B.7.6	Functional tests .....	89
B.7.7	Verification of markings and documentation.....	96
B.7.8	Short-time currents tests.....	96
B.7.9	Inter-turn overvoltage tests .....	97
B.7.10	Anti-aliasing tests .....	98
B.7.11	Test with harmonics and at low frequencies.....	98
B.8	Routine tests for TRD2 .....	99
B.8.1	General .....	99
B.8.2	Accuracy tests .....	99
B.8.3	Verification of markings .....	99
B.8.4	Safety tests .....	99
B.8.5	Inter-turn overvoltage tests .....	99
Annex C (normative)	Interface coding .....	100
C.1	General.....	100
C.2	Characteristics of interface connection.....	100
C.3	Coding of rated output values for transducers .....	100
C.4	Coding of auxiliary power supply for transducers .....	102
C.5	Coding of transfer function curves for transducers .....	103
C.6	Interface full coding for output of transducers .....	103
C.6.1	General .....	103
C.6.2	Examples of interface codes and most common interface codes .....	104
Annex D (informative)	Anti-aliasing guidance .....	106
Annex E (normative)	Requirements for the measurement of harmonics and low frequencies.....	109
E.1	General.....	109
E.2	Requirements for accuracy class extension WBm0 .....	109
E.3	Requirements for accuracy class extension WBm1 .....	110
E.4	Requirements for accuracy class extension WBm2 .....	110
E.5	Requirements for accuracy class extension WBm3 .....	111

Annex F (normative) Markings of terminals of TRD2 .....	112
F.1 Marking of terminals for TRD2 monitoring AC current.....	112
F.2 Marking of terminals for TRD2 monitoring voltage .....	112
Annex G (informative) Guidance related to cables, busbars and bare conductors within an installation .....	114
G.1 Insulation of cables .....	114
G.2 Temperature of cables and busbars .....	114
G.2.1 Cables .....	114
G.2.2 Busbars .....	114
Annex H (informative) Guidance related to overvoltage categories and measurement categories.....	115
H.1 Concept of overvoltage category .....	115
H.2 Approach of IEC 60664-1 for primary circuits of TRD2 .....	115
H.2.1 General .....	115
H.2.2 Examples with IEC 60664-1:2020, for primary measuring circuits, OVC III, PD 2, altitude under 2 000 m, inhomogeneous field .....	115
H.3 Approach of IEC 61010 (all parts) for primary circuits of TRD2 .....	116
H.3.1 General .....	116
H.3.2 Example with IEC 61010-2-030:2023 for primary measuring circuits, OVC III, PD 2, altitude under 2 000 m, inhomogeneous field.....	116
H.4 Approach for secondary circuits of TRD2 .....	117
Annex I (informative) Examples of clamping units and relationship between clamping unit and connecting device.....	118
I.1 Clamping unit in a connecting device .....	118
I.2 Examples of clamping units.....	118
Bibliography.....	125
Figure 1 – Transducer (TRD) architecture example .....	23
Figure A.1 – Transfer function curve A.....	35
Figure A.2 – Transfer function curve B.....	36
Figure A.3 – Transfer function curve C.....	36
Figure A.4 – Transfer function curve D.....	37
Figure A.5 – Transfer function curve E.....	37
Figure B.1 – Relationship between ambient air temperature and relative humidity .....	61
Figure B.2 – Dimensions .....	63
Figure B.3 – Accuracy limits of a TRD2-IAC (a) and TRD2-IDC (b) .....	68
Figure B.4 – Definition of the angle between primary conductor and the equipment .....	71
Figure B.5 – Definition of the primary conductor position according to the position factor .....	72
Figure B.6 – Gauges of form A and form B.....	83
Figure B.7 – Test equipment for flexion test.....	85
Figure B.8 – Measurement of the step response time.....	91
Figure B.9 – Temperature cycle accuracy test.....	93
Figure B.10 – Test set up for impact of magnetic field from other phases – a) First step – b) Second step .....	94
Figure B.11 – Accuracy measurement test set up .....	96
Figure D.1 – Digital data acquisition system example.....	106

Figure D.2 – Frequency response mask for metering accuracy class 1 ( $f_r = 60$ Hz, $f_s = 4\,800$ Hz) .....	108
Figure I.1 – Clamping unit in a connecting device .....	118
Figure I.2 – Screw clamping units .....	119
Figure I.3 – Pillar clamping units .....	120
Figure I.4 – Stud clamping units .....	121
Figure I.5 – Saddle clamping units .....	122
Figure I.6 – Lug clamping units .....	123
Figure I.7 – Mantle clamping units .....	124
Table 1 – Functional classification of transducers with minimal required functions .....	23
Table 2 – Definition of ports .....	27
Table 3 – Performance criteria for EMC immunity tests .....	28
Table A.1 – Usage groups .....	30
Table A.2 – Relationship between the limits of intrinsic error, expressed as a percentage of the fiducial value, and the class index .....	31
Table A.3 – Pre-conditioning .....	32
Table A.4 – Reference conditions of the influence quantities and tolerances for testing purposes .....	32
Table A.5 – Reference conditions relative to the measurand .....	33
Table A.6 – Examples of marking relating to the reference conditions and nominal range of use for temperature .....	40
Table A.7 – Symbols for marking transducers .....	41
Table A.8 – Permissible variations due to AC auxiliary supply .....	43
Table A.9 – Permissible variations due to DC auxiliary supply .....	44
Table A.10 – Permissible variations due to auxiliary supply frequency .....	44
Table A.11 – Permissible variations due to ambient temperature .....	45
Table A.12 – Permissible variations due to the frequency of input quantity .....	46
Table A.13 – Permissible variations due to the input voltage .....	46
Table A.14 – Permissible variations due to the input current .....	47
Table A.15 – Permissible variations due to power factor .....	48
Table A.16 – Permissible variations due to output load .....	49
Table A.17 – Permissible variations due to distortion of input quantities .....	49
Table A.18 – Permissible variations due to magnetic field of external origin .....	50
Table A.19 – Permissible variations due to unbalance currents .....	51
Table A.20 – Permissible variations due to interactions between measuring elements .....	51
Table A.21 – Permissible variations due to self-heating .....	52
Table A.22 – Permissible variations due to continuous operation .....	53
Table A.23 – Permissible variations due to series mode interference .....	54
Table B.1 – Environmental conditions parameters .....	56
Table B.2 – Preferred rated burden for TRD2 with an AC or DC voltage output, or a frequency output .....	59
Table B.3 – Rated burden for TRD2 with an AC or DC current output .....	59
Table B.4 – Rated temperatures for TRD2 .....	60

Table B.5 – Rated humidity classes .....	60
Table B.6 – Examples of terminal lugs for equipment connected to copper conductors .....	63
Table B.7 – Nominal cross-sections of round copper conductors and approximate relationship between mm <sup>2</sup> and AWG/kcmil sizes .....	64
Table B.8 – Minimum values for maximum cross section of conductors up to 400 A inclusive .....	65
Table B.9 – Minimum values for maximum cross section of conductors from 400 A and up to 800 A inclusive .....	66
Table B.10 – Minimum values for maximum cross section for copper bars for currents above 400 A and up to 3 150 A inclusive .....	66
Table B.11 – Limits for relative error and phase error for TRD2-IAC .....	67
Table B.12 – Limits of error for TRD2-IDC .....	67
Table B.13 – Limits of relative error for TRD2-UAC .....	69
Table B.14 – Limits of relative error for TRD2-UDC .....	70
Table B.15 – Limits for the position of the primary conductor with respect to the equipment .....	71
Table B.16 – RJ45 connector pinout .....	73
Table B.17 – Temperature tests .....	78
Table B.18 – Tightening torques for the verification of the mechanical strength of screw-type terminals .....	80
Table B.19 – Maximum conductor cross-sections and corresponding gauges .....	81
Table B.20 – Relationship between conductor cross-section and diameter .....	82
Table B.21 – Test values for flexion and pull-out tests for round copper conductors .....	84
Table B.22 – Test values for pull-out test for flat copper conductors .....	86
Table B.23 – Test copper conductors for test currents up to 400 A inclusive .....	87
Table B.24 – Test copper conductors for test currents above 400 A and up to 800 A inclusive .....	88
Table B.25 – Test copper bars for test currents above 400 A and up to 3 150 A inclusive .....	88
Table B.26 – Burden values for basic accuracy tests .....	89
Table C.1 – Coding of interface connection .....	100
Table C.2 – Rated AC RMS voltage output .....	101
Table C.3 – Rated DC voltage output .....	101
Table C.4 – Rated range of DC voltage output .....	101
Table C.5 – Rated AC RMS current output less than 1A .....	101
Table C.6 – Rated range of DC current output .....	102
Table C.7 – Rated frequency output .....	102
Table C.8 – Rated pulse density output .....	102
Table C.9 – Coding of power supply for transducers supplied from a measuring instrument via the connector .....	103
Table C.10 – Coding of external power supply for transducers .....	103
Table C.11 – Coding of transfer function curves for TRD1 .....	103
Table C.12 – Interface full coding for output of transducers .....	104
Table C.13 – Examples of interface codes and most common interface codes .....	104
Table D.1 – Anti-aliasing filter .....	107
Table E.1 – Limits of error for harmonics – Accuracy class extension WBm0 .....	109

Table E.2 – Limits of errors for harmonics – Accuracy class extension WBm1.....	110
Table E.3 – Limits of errors for harmonics – Accuracy class extension WBm2.....	111
Table E.4 – Limits of errors for supra-harmonics – Accuracy class extension WBm3.....	111
Table F.1 – Marking of terminals for TRD2 monitoring current.....	112
Table F.2 – Marking of terminals for TRD2 monitoring voltage .....	113
Table H.1 – Clearances according to IEC 60664-1:2020 .....	115
Table H.2 – Creepage distances according to IEC 60664-1:2020 .....	116
Table H.3 – Clearances according to IEC 61010-2-030:2017 .....	117
Table H.4 – Creepage distances according to IEC 61010-2-030:2023 .....	117

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