

Instrument transformers - Part 8: Electronic current transformers

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Instrument transformers
Part 8: Electronic current transformers
(IEC 60044-8:2002)

Transformateurs de mesure
Partie 8: Transformateurs de courant
électroniques
(CEI 60044-8:2002)

Messwandler
Teil 8: Elektronische Stromwandler
(IEC 60044-8:2002)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 38/280/FDIS, future edition 1 of IEC 60044-8, prepared by IEC TC 38, Instrument transformers, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60044-8 on 2002-09-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2003-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-09-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes D and ZA are normative and annexes A, B, C and E are informative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60044-8:2002 was approved by CENELEC as a European Standard without any modification.

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

[SIST EN 60044-8:2003](https://standards.iteh.ai/catalog/standards/sist/en-60044-8-2003)

IEC 60038	NOTE	https://standards.iteh.ai/catalog/standards/sist/en-60044-8-2003 Harmonized as HD 472 S1:1989 (modified).
IEC 60068-2 Series	NOTE	Harmonized in EN 60068-2/HD 323.2 Series (not modified).
IEC 60071-2	NOTE	Harmonized as EN 60071-2:1997 (not modified).
IEC 60255-24	NOTE	Harmonized as EN 60255-24:2001 (not modified).
IEC 60270	NOTE	Harmonized as EN 60270:2001 (not modified).
IEC 60437	NOTE	Harmonized as EN 60437:1997 (not modified).
IEC 60567	NOTE	Harmonized as EN 60567:1992 (not modified).
IEC 60599	NOTE	EN 60599:1999 is based on IEC 60599:1999 (not modified).
IEC 60721-2-2	NOTE	Harmonized as HD 478.2.2 S1:1990 (not modified).
IEC 60721-2-4	NOTE	Harmonized as HD 478.2.4 S1:1989 (not modified).
IEC 61508-1	NOTE	Harmonized as EN 61508-1:2001 (not modified).
IEC 61508-3	NOTE	Harmonized as EN 61508-3:2001 (not modified).
IEC 61754-1	NOTE	Harmonized as EN 61754-1:1997 (not modified).
IEC 61754-15	NOTE	Harmonized as EN 61754-15:2001 (not modified).

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60028	1925	International standard of resistance for copper	-	-
IEC 60044-1	- ¹⁾	Instrument transformers Part 1: Current transformers	EN 60044-1	1999 ²⁾
IEC 60044-6	- ¹⁾	Part 6: Requirements for protective current transformers for transient performance	EN 60044-6	1999 ²⁾
IEC 60044-7	- ¹⁾	Part 7: Electronic voltage transformers	EN 60044-7	2000 ²⁾
IEC 60050-161	1990	International Electrotechnical Vocabulary (IEV) Chapter 161: Electromagnetic compatibility	-	-
IEC 60050-321	1986	International electrotechnical vocabulary Chapter 321: Instrument transformers	-	-
IEC 60050-601	1985	Chapter 601: Generation, transmission and distribution of electricity - General	-	-
IEC 60050-604	1987	Chapter 604: Generation, transmission and distribution of electricity - Operation	-	-
IEC 60056	- ¹⁾	High-voltage alternating-current circuit-breakers	HD 348 S7	1998 ³⁾
IEC 60060-1 + corr. March	1989 1990	High-voltage test techniques Part 1: General definitions and test requirements	HD 588.1 S1	1991

1) Undated reference.

2) Valid edition at date of issue.

3) HD 348 S7:1998 is superseded by EN 62271-100:2001, which is based on IEC 62271-100:2001.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-6 + corr. March	1995 1995	Environmental testing Part 2: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	1995
IEC 60068-2-17	- ¹⁾	Part 2: Tests - Test Q: Sealing	EN 60068-2-17	1994 ²⁾
IEC 60068-2-75	- ¹⁾	Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	1997 ²⁾
IEC 60071-1	1993	Insulation co-ordination Part 1: Definitions, principles and rules	EN 60071-1	1995
IEC 60085	1984	Thermal evaluation and classification of electrical insulation	HD 566 S1	1990
IEC 60121	- ¹⁾	Recommendation for commercial annealed aluminium electrical conductor wire	-	-
IEC 60255-5	2000	Electrical relays Part 5: Insulation coordination for measuring relays and protection equipment - Requirements and tests	EN 60255-5	2001
IEC 60255-22-1	1988	Part 22: Electrical disturbance tests for measuring relays and protection equipment - Section 1: 1 MHz burst disturbance tests	-	-
IEC 60296	1982	Specification for unused mineral insulating oils for transformers and switchgear	-	-
IEC 60304	1982	Standard colours for insulation for low- frequency cables and wires	HD 402 S2	1984
IEC 60376	1971	Specification and acceptance of new sulphur hexafluoride	-	-
IEC 60376B	1974	Second supplement: Clause 26	-	-
IEC 60417	Series	Graphical symbols for use on equipment	EN 60417	Series
IEC 60480	1974	Guide to the checking of sulphur hexafluoride (SF ₆) taken from electrical equipment	-	-
IEC 60529	- ¹⁾	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 ²⁾ 1993
IEC 60664-1 (mod)	1992	Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests	HD 625.1 S1 + corr. November	1996 1996

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60694	1996	Common specifications for high-voltage switchgear and controlgear standards	EN 60694 + corr. May	1996 1999
IEC 60707	1999	Flammability of solid non-metallic materials when exposed to flame sources - List of test methods	EN 60707	1999
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
IEC 60721-3-4	1995	Section 4: Stationary use at non-weatherprotected locations	EN 60721-3-4	1995
IEC 60794	Series	Optical fibre cables	EN 60794	Series
IEC 60812	1985	Analysis techniques for system reliability - Procedure for failure mode and effects analysis (FMEA)	HD 485 S1	1987
IEC 60815	1986	Guide for the selection of insulators in respect of polluted conditions	-	-
IEC 60870-5-1	1990	Telecontrol equipment and systems Part 5: Transmission protocols - Section 1: Transmission frame formats	EN 60870-5-1	1993
IEC 61000-4-1	2000	Electromagnetic compatibility (EMC) Part 4-1: Testing and measurement techniques - Overview of IEC 61000-4 series	EN 61000-4-1	2000
IEC 61000-4-2	- ¹⁾	Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	1995 ²⁾
IEC 61000-4-3	- ¹⁾	Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	2002 ²⁾
IEC 61000-4-4	1995	Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	1995
IEC 61000-4-5	- ¹⁾	Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	1995 ²⁾
IEC 61000-4-7	1991	Part 4-7: Testing and measurement techniques - General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	EN 61000-4-7	1993

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-4-8	- ¹⁾	Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	EN 61000-4-8	1993 ²⁾
IEC 61000-4-9	- ¹⁾	Part 4-9: Testing and measurement techniques - Pulse magnetic field immunity test	EN 61000-4-9	1993 ²⁾
IEC 61000-4-10	- ¹⁾	Part 4-10: Testing and measurement techniques - Damped oscillatory magnetic field immunity test	EN 61000-4-10	1993 ²⁾
IEC 61000-4-11	- ¹⁾	Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	1994 ²⁾
IEC 61000-4-12	- ¹⁾	Part 4-12: Testing and measurement techniques - Oscillatory waves immunity test	EN 61000-4-12	1995 ²⁾
IEC 61000-4-13	- ¹⁾	Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	EN 61000-4-13	2002 ²⁾
IEC 61000-4-29	2000	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	2000
IEC 61025	1990	Fault tree analysis (FTA)	HD 617 S1	1992
IEC 61166	1993	High-voltage alternating current circuit-breakers - Guide for seismic qualification of high-voltage alternating current circuit-breakers	EN 61166	1993
IEC/TS 61462	1998	Composite insulators - Hollow insulators for use in outdoor and indoor electrical equipment - Definitions, test methods, acceptance criteria and design recommendations	-	-
IEC 61850-3	- ¹⁾	Communication networks and systems in substations Part 3: General requirements	EN 61850-3	2002 ²⁾
IEC 61850-9-1	- ⁴⁾	Part 9-1: Specific communication system mappings (SCSM) - Serial unidirectional multidrop point to point link	-	-

4) To be published.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
CISPR 11 (mod)	1997	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement	EN 55011	1998
A1	1999		A1	1999
EIA RS-485	- ¹⁾	Standard for electrical characteristics of generators and receivers for use in balanced digital multipoint systems	-	-
-	-	Voltage characteristics of electricity supplied by public distribution systems	EN 50160	1999

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CONTENTS

FOREWORD	6
1 Scope	7
1.1 General	7
1.2 General block diagram of electronic current transformers	8
1.3 General block diagram of electronic transformers with a digital output	9
2 Normative references	9
3 Definitions	12
3.1 General definitions	12
3.2 Additional definitions for measuring electronic current transformers	19
3.3 Additional definitions for protective electronic current transformers	19
3.4 Additional definitions for digital output	22
3.5 Additional definitions for analogue voltage output	23
3.6 Index of main definitions and abbreviations	23
4 Normal and special service conditions	24
4.1 General	24
4.2 Normal service conditions	25
4.3 Special service conditions	26
4.4 System earthing	28
5 Ratings	28
5.1 General ratings	28
5.2 Standard values for rated phase offset	32
5.3 Rating for digital output	32
5.4 Rating for analogue voltage output	33
6 Design requirements	34
6.1 General design requirements	34
6.2 Design requirements for digital output	43
6.3 Design requirements for analogue voltage output	60
7 Classification of tests	60
7.1 General	60
7.2 Type tests	60
7.3 Routine tests	61
7.4 Special tests	62
8 Type test	62
8.1 Short-time current tests	62
8.2 Temperature-rise test	63
8.3 Impulse tests on primary terminals	63
8.4 Wet test for outdoor type electronic current transformers	65
8.5 RIV tests	65
8.6 Transmitted overvoltage test	65
8.7 Low-voltage components voltage withstand test	66
8.8 EMC tests	67
8.9 Accuracy test	70
8.10 Additional accuracy tests for protective electronic current transformers	72
8.11 Verification of the protection	72
8.12 Tightness tests	73
8.13 Vibration tests	73
8.14 Additional type test for digital output	74

9	Routine tests.....	75
9.1	Verification of terminal markings	75
9.2	Power-frequency withstand tests on primary terminals and partial discharge measurement.....	75
9.3	Power-frequency voltage withstand test for low-voltage components.....	75
9.4	Accuracy tests	75
9.5	Tightness tests	75
9.6	Additional routine tests for digital output.....	76
9.7	Additional routine tests for analogue output	76
10	Special tests	76
10.1	Chopped lightning-impulse test on primary terminals	76
10.2	Measurement of capacitance and dielectric dissipation factor	76
10.3	Mechanical tests	76
10.4	Tests for accuracy versus harmonics	77
10.5	Tests in accordance with the technology applied	78
11	Marking.....	78
11.1	Terminal marking – General rules	78
11.2	Rating plate markings	79
12	Additional requirements for measuring electronic current transformers	82
12.1	Accuracy class designation	82
12.2	Limits of current error and phase error at rated frequency.....	82
12.3	Accuracy requirements on harmonics	83
13	Additional requirements for protective electronic current transformers	83
13.1	Accuracy classes	83
13.2	Accuracy requirements on harmonics	84
14	Information to be given with enquiries, tenders and orders.....	84
14.1	Designation.....	84
14.2	Dependability.....	85
15	Rules for transport, storage and installation.....	85
15.1	Conditions during transport, storage and installation.....	86
15.2	Installation	86
15.3	Unpacking and lifting.....	86
15.4	Assembly.....	86
15.5	Operation.....	87
15.6	Maintenance	87
16	Safety	90
16.1	Electrical aspects.....	90
16.2	Mechanical aspects.....	90
16.3	Thermal aspects	90
	Annex A (informative) Transient performances of ECTs	91
	Annex B (informative) Technical information for electronic current transformers with digital output	98
	Annex C (informative) Technical information for electronic current transformers with analogue output	108
	Annex D (normative) Frequency response and accuracy requirements on harmonics for electronic current and voltage transformer	116
	Annex E (informative) Graph explaining the accuracy requirements.....	123

Bibliography	124
Figure 1 – General block diagram of a single-phase electronic current transformer	8
Figure 2 – Example of digital interface block diagram.....	9
Figure 3 – Altitude correction factor	27
Figure 4 – Manchester coding.....	43
Figure 5 – Characteristics of the optical pulse.....	45
Figure 6 – Test circuit for the optical pulse.....	45
Figure 7 – Copper wire interface.....	47
Figure 8 – Eye diagram	48
Figure 9 – Daisy-chain architecture.....	49
Figure 10 – Frame format according to FT3	51
Figure 11 – Status word #1	56
Figure 12 – Status word #2.....	57
Figure 13 – Universal frame.....	58
Figure 14 – Pulse shape for clock input	59
Figure 15 – Example of subassembly subjected to EMC tests	68
Figure 16 – Temperature cycle accuracy test.....	71
Figure A.1 – Equivalent electrical circuit of the network.....	91
Figure A.2 – More complex equivalent electrical circuit during short circuit.....	92
Figure A.3 – Equivalent electrical circuit of magnetic current transformer during short circuit.....	93
Figure A.4 – Magnetic reactance of the a CT without remanence	93
Figure A.5 – Magnetic reactance of the CT with remanence	94
Figure A.6 – Example of magnetic reactance of the a CT for a TPZ class.....	95
Figure A.7 – Example of the magnetic reactance of a CT for a TPY class.....	96
Figure B.1 – Combination of ECTs and EVT's to form the digital output.....	98
Figure B.2 – Synchronized samples of current from bay 1 and bay 2 calculated from non-synchronized samples from bay 1 and bay 2 respectively.....	101
Figure B.3 – Samples from current in bay 1 and 2 sampled synchronized by a common clock.....	101
Figure B.4 – Phase error definition for the digital interface	102
Figure B.5 – Test set-up	103
Figure B.6 – Comparison of errors in conventional metering systems and systems based on ECTs and EVT's with digital output	107
Figure C.1 – Test circuit for accuracy measurements in steady state.....	109
Figure C.2 – Iron-core-coil transformer	110
Figure C.3 – Equivalent circuit of the iron-core current transformer with voltage output.....	111
Figure C.4 – Stand-alone air-core coil.....	112
Figure C.5 – Equivalent circuit of stand-alone air-core current transformer with voltage output	113
Figure C.6 – Phasor diagram – Stand-alone air-core coil.....	114
Figure D.1 – Digital data acquisition system.....	118
Figure E.1 – Accuracy limits of a multi-purpose ECT	123

Table 1 – Temperature categories	25
Table 2 – Limits of temperature rise of the transformer	30
Table 3 – DC voltage	31
Table 4 – AC voltage	31
Table 5 – Rated values for digital output	32
Table 6 – Low-voltage withstand capability	34
Table 7 – Creepage distances for given pollution levels	35
Table 8 – Immunity requirements and tests	37
Table 9 – Static withstand test loads	39
Table 10 – The compatible fibre optic transmission system	44
Table 11 – The compatible copper-wire transmission system for simplex point-to-point link	46
Table 12 – Data channel mapping for DataSetName = 01, general application	53
Table 13 – Connectors	60
Table 14 – Modalities of application of test loads to be applied to the primary terminals	77
Table 15 – Markings of terminals	78
Table 16 – Rating plate marking	80
Table 17 – Limits of error	82
Table 18 – Limits of error for current transformers for special application	82
Table 19 – Limits of error	83
Table 20 – Limits of error	84
Table 21 – Designation of an electronic current transformer	85
Table B.1 – Sample application specific assignment of the data channels with DataSetName = FE H. Application for line protection and synchronization of 1½-beaker arrangements with combined ECTs/EVTs on both sides of the breakers	99

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