



DPC: 25/30511685 DC

BSI Group Headquarters

389 Chiswick High Road London W4 4AL

Tel: +44 (0)20 8996 9000

Fax: +44 (0)20 8996 7400

www.bsigroup.com

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Responsible committee: PEL/95 Measuring relays and protection systems

Interested committees:

Title: Draft BS EN 60255-26 Amd.1 Ed.4.0 BS EN IEC 60255-26 Amd.1 Amendment 1 - Measuring relays and protection equipment. Part 26: Electromagnetic compatibility requirements.

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- iii) requires additional national guidance or information

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



95/600/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:
IEC 60255-26/AMD1 ED4

DATE OF CIRCULATION:
2025-08-01

CLOSING DATE FOR COMMENTS:
2025-09-26

SUPERSEDES DOCUMENTS:
95/582/RR

IEC TC 95 : MEASURING RELAYS AND PROTECTION EQUIPMENT		
SECRETARIAT: France		SECRETARY: Mr Thierry BARDOU
OF INTEREST TO THE FOLLOWING COMMITTEES: TC 14,TC 17,TC 38,TC 77,TC 115,TC 122		HORIZONTAL FUNCTION(s):
ASPECTS CONCERNED: Electromagnetic Compatibility		

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Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any local regulations or technical reasons that may exist and should be considered should this proposal proceed, recognizing that failure to address such requirements could result in the need for new or existing "In Some Countries" clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Amendment 1 - Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MEASURING RELAYS AND PROTECTION EQUIPMENT –

Part 26: Electromagnetic compatibility requirements

AMENDMENT 1

FOREWORD

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Amendment 1 to IEC 60255-26:2023 has been prepared by subcommittee MT2: electromagnetic Compatibility (EMC) Requirements for Measuring Relays and Protection Equipment, of IEC technical committee 95: Measuring relays and protection equipment.

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

Draft	Report on voting
XX/XX/XXXX	XX/XX/XXX

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

54 The language used for the development of this Amendment is English.

55 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in
56 accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available
57 at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are
58 described in greater detail at www.iec.ch/publications/.

59 The committee has decided that the contents of this document will remain unchanged until the
60 stability date indicated on the IEC website under webstore.iec.ch in the data related to the
61 specific document. At this date, the document will be

- 62 • reconfirmed,
- 63 • withdrawn, or
- 64 • revised.

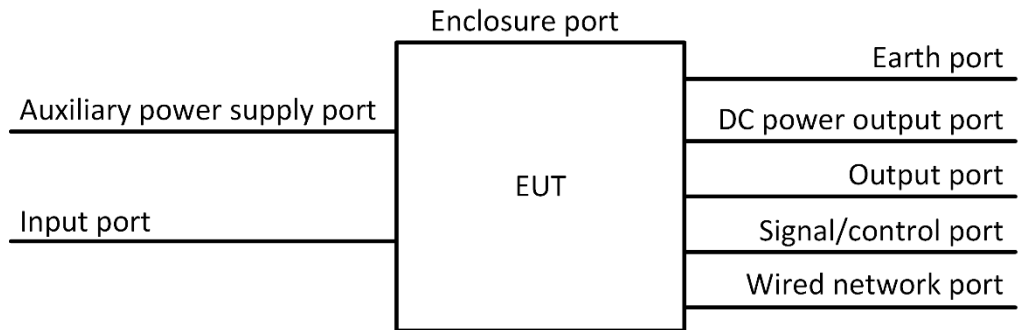
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3 Terms and definitions

3.1.23

Replace the Figure by the following



Add the following new definitions:

3.1.27

DC power output port

output port of a DC power supply interface to energize auxiliary equipment which is not supporting communication

3.1.28

Analogue input signal port

input signal whose value is directly proportional to measured physical quantity with a maximum voltage of less than 50 V and a maximum current of less than 100 mA. (e.g. RTD, 20 mA interface)

[SOURCE: IEC 60050-447:2020-05, 447-03-19, modified – “with a maximum voltage of less than 50 V and a maximum current of less than 100 mA. (e.g. RTD, 20 mA interface)” has been added to the definition]

3.1.29

Pick-up signal

output signal that asserts when a measuring relay or protection equipment starts (picks up)

[SOURCE: IEC 60050-447:2020-05, 447-04-13]

Note 1: Start signal (pick-up signal), among all output signals, can be dedicated or not.

5.2 Conducted emission

Add the following Before Table 3

No conducted emission requirements apply to DC power output ports in conjunction with CISPR H standards

5.3 Immunity of signal/control port and wired network port

Replace table 7 with the following new table

- source impedance is removed from the item 7.4

Table 7 – Immunity tests – signal/control port and wired network port

Item	Environmental phenomena	Test specification	Units	Basic EMC publication	Test procedure	Acceptance criteria (see 8.2)
7.1	Conducted disturbance induced by radio-frequency fields Frequency sweep Test frequency range Test level (prior to modulation) Source impedance Amplitude modulated Frequency step size Spot frequencies Test spot frequencies Test level (prior to modulation) Source impedance Amplitude modulated	0,15 to 80 10 150 80 ≤ 1 27 $\pm$ 0,135 10 150 80	MHz V (RMS) Ω % AM (1 kHz) % (of preceding frequency value) MHz V (RMS) Ω % AM (1 kHz)	IEC 61000-4-6	See 7.3.7	A
7.2	Electrical fast transient/burst Rise time t_r / Pulse duration t_d Test level Zone A Zone B Repetition frequency Source impedance	5 / 50 4 2 5 50	ns kV (peak voltage) kV (peak voltage) kHz Ω	IEC 61000-4-4	See 7.3.4	B

Item	Environmental phenomena	Test specification	Units	Basic EMC publication	Test procedure	Acceptance criteria (see 8.2)
7.3	Damped oscillatory waves					
	Voltage oscillation frequency	1	MHz			
	Test level					
	Common mode	1	kV (peak voltage)	IEC 61000-4-18	See 7.3.5	B
	Zone A					
	Voltage oscillation frequency	3/10/30	MHz			
	Test level					
	Common mode	2	kV (peak voltage)			
7.4	Surge					
	Front time / Time to half value	1,2/50 (8/20)	µs voltage (current)			
	Test level			IEC 61000-4-5	See 7.3.6	B
	Line-to-earth					
	Zone A	0,5 1 2 4	kV			
	Zone B	0,5 1 2	kV			

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Replace the title of clause 6.4 by the following one

6.4 Immunity of input, output and DC power output port

Replace table 8 with the following new table

- Title of the table is updated.
- Coupling resistor and coupling capacitor are removed from Item 8.4 for line-to-line and line-to-earth tests.
- Note b is updated

Table 8 – Immunity tests – Input, output and DC power output port

Item	Environmental phenomena	Test specification	Units	Basic EMC publication	Test procedure	Acceptance criteria (see 8.2)
8.1	Conducted disturbance induced by radio-frequency fields Frequency sweep Test frequency range Test level (prior to modulation) Source impedance Amplitude modulated Frequency step size Spot frequencies Test spot frequencies Test level (prior to modulation) Source impedance Amplitude modulated	 0,15 to 80 10 150 80 ≤ 1 27 $\pm$ 0,135 10 150 80	 MHz V (RMS) Ω % AM (1 kHz) % (of preceding frequency value) MHz V (RMS) Ω % AM (1 kHz)	 IEC 61000-4-6	 See 7.3.7	 A
8.2	Electrical fast transient/burst Rise time t_r / Pulse duration t_d Test level Zone A Zone B Repetition frequency Source impedance	 5 / 50 4 2 5 50	 ns kV (peak voltage) kV (peak voltage) kHz Ω	 IEC 61000-4-4	 See 7.3.4	 B