

INTERNATIONAL STANDARD

CONSOLIDATED VERSION

**Arc welding equipment -
Part 10: Electromagnetic compatibility (EMC) requirements**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements

FOREWORD

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This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 60974-10 edition 4.1 contains the fourth edition (2020-04) [documents 26/695/FDIS and 26/697/RVD] and its amendment 1 (2026-08) [documents 26/780/FDIS and 26/790/RVD].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 60974-10 has been prepared by IEC technical committee 26: Electric welding.

This fourth edition cancels and replaces the third edition published in 2014 and its Amendment 1:2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) updated normative references;
- b) requirements for battery powered equipment;
- c) requirements for equipment combined with radio transmitters/receivers.

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

FDIS	Report on voting
26/695/FDIS	26/697/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 60974 series, published under the general title *Arc welding equipment*, can be found on the IEC web site.

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

- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION to the Amendment

This amendment includes the following significant technical changes with respect to the previous edition:

- a) alignment with the 7th edition of CISPR 11:2024;
- b) clarification of requirements for portable equipment;
- c) more precise references to standards;
- d) replacement of Clause 8, Documentation for the purchaser/user, with an informative annex.

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1 Scope

This part of IEC 60974 is applicable to equipment for arc welding and allied processes, including power sources and ancillary equipment, for example wire feeders, liquid cooling systems, arc striking and stabilizing devices and chargers for battery powered equipment.

NOTE 1 Allied processes are, for example, plasma cutting and arc stud welding.

NOTE 2 This document does not specify basic safety requirements for arc welding equipment such as protection against electric shock, unsafe operation, insulation coordination and related dielectric tests.

~~Arc welding equipment containing a radio receiver or transmitter is within the scope of this document.~~

~~The radiated emission requirements in this document are not intended to be applicable to the intentional transmissions from a radio transmitter as defined by the ITU nor to any spurious emissions related to these intentional transmitters.~~

Arc welding equipment which incorporates radio transmit or receive functions (host equipment with radio functionality) is included in the scope of this document, see Annex E. However, the emission requirements in this document are not intended to be applicable to the intentional transmissions from a radio transmitter as defined by the ITU including their spurious emissions.

NOTE 3 This exclusion only applies to emissions from the intentional radio transmitter. However, combination emissions, for example emissions resulting from intermodulation between the radio and the non-radio subassemblies of the ISM equipment, are not subject to this exclusion.

This document specifies

- a) applicable standards and test methods for radio-frequency (RF) emissions;
- b) applicable standards and test methods for harmonic current emission, voltage fluctuations and flicker;
- c) immunity requirements and test methods for continuous and transient, conducted and radiated disturbances including electrostatic discharges;
- d) additional requirements for equipment powered by internal or external batteries (Annex D);
- e) additional requirements for equipment containing radio frequency transmitters/receivers (Annex E);
- f) information on contents for documentation that can be made available to the purchaser/user can be found in Annex F.

Arc welding equipment type tested in accordance with, and which has met the requirements set in, this document is considered to be in compliance for all applications.

2 Normative references

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.

IEC 60974-1:2017, *Arc welding equipment – Part 1: Welding power sources*
IEC 60974-1:2017/AMD1:2019

IEC 60974-6:2015, *Arc welding equipment – Part 6: Limited duty equipment*

IEC 61000-3-2:2018, *Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*

IEC 61000-3-3:2013, *Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection*
IEC 61000-3-3:2013/AMD1:2017

IEC 61000-3-11:2017, *Electromagnetic compatibility (EMC) – Part 3-11: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems – Equipment with rated current ≤ 75 A and subject to conditional connection*

IEC 61000-3-12:2011, *Electromagnetic compatibility (EMC) – Part 3-12: Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase*

IEC 61000-4-2:2008, *Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test*

IEC 61000-4-3:2006, *Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test*
IEC 61000-4-3:2006/AMD1:2007
IEC 61000-4-3:2006/AMD2:2010

IEC 61000-4-4:2012, *Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test*

IEC 61000-4-5:2014, *Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test*
IEC 61000-4-5:2014/AMD1:2017

IEC 61000-4-6:2013, *Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields*

IEC 61000-4-11:2004, *Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests*
IEC 61000-4-11:2004/AMD1:2017

IEC 61000-4-34:2005, *Electromagnetic compatibility (EMC) – Part 4-34: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current more than 16 A per phase*
IEC 61000-4-34:2005/AMD1:2009

IEC 61000-6-1:2016, *Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity standard for residential, commercial and light-industrial environments*

IEC 61000-6-2:2016, *Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments*

IEC 61000-6-3:2006, *Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments*
IEC 61000-6-3:2006/AMD1:2010

IEC 61000-6-4:2018, *Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments*

CISPR 11:2015, *Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement*
CISPR 11:2015/AMD1:2016
CISPR 11:2015/AMD2:2019

CISPR 11:2024, *Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement*

CISPR 14-1:2016, *Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission*

CISPR 16-1-1:2019, *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*
CISPR 16-1-2:2014/AMD1:2017

CISPR 16-1-4:2019, *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*

CISPR 35:2016, *Electromagnetic compatibility of multimedia equipment - Immunity requirements*

3 Terms and definitions

For the purposes of this document, terms and definitions in IEC 60974-1 as well as the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

NOTE In this document, the forward slash as in "and/or", "purchaser/user", "signal/control", etc. is used in the sense of "either x or y, or both".

3.1 click

disturbance which exceeds the limit of continuous disturbance no longer than 200 ms and which is separated from a subsequent disturbance by at least 200 ms

Note 1 to entry: Both intervals are related to the level of the limit of continuous disturbance.

Note 2 to entry: A click may contain a number of impulses, in which case the relevant time is that from the beginning of the first to the end of the last impulse.

[SOURCE: IEC 60050-851:2008, 851-15-13]

3.2 coupling network

electrical circuit for transferring energy from one circuit to another with a defined impedance

Note 1 to entry: Coupling and decoupling devices can be integrated into one box (coupling and decoupling network (CDN)) or they can be in separate networks.

[SOURCE:IEC 61000-4-6:2013, 3.7]

3.3

CDN

coupling/decoupling network

electrical circuit incorporating the functions of both the coupling and decoupling networks

[SOURCE:IEC 61000-4-6:2013, 3.8]

3.4

decoupling network

decoupling device

electrical circuit for preventing test signals applied to the equipment under test (EUT) from affecting other devices, equipment or systems that are not under test

[SOURCE:IEC 61000-4-6:2013, 3.9]

3.5

FAR

fully-anechoic room

shielded enclosure, the internal surfaces of which are lined with radio-frequency-energy absorbing material (i.e. RF absorber) that absorbs electromagnetic energy in the frequency range of interest

[SOURCE: CISPR 11:2015/AMD1:2016, 3.20]

3.6

OATS

open-area test site

facility used for measurements of electromagnetic fields the intention for which is to simulate a semi-free-space environment over a specified frequency range that is used for radiated emission testing of products

Note 1 to entry: An OATS typically is located outdoors in an open area, and has an electrically-conducting ground plane.

[SOURCE: CISPR 11:2015/AMD1:2016, 3.21]

3.7
port

~~particular interface of an equipment which couples this equipment with the external electromagnetic environment (IEC 60050-161:2018, 161-01-01) and through which the equipment is influenced by this environment~~

~~EXAMPLE Examples of ports of interest are shown in Figure 1. The enclosure port is the physical boundary of the apparatus (e.g. enclosure). The enclosure port provides for radiated and electrostatic discharge (IEC 60050-161:2018, 161-01-22) energy transfer, whereas the other ports provide for conducted energy transfer.~~

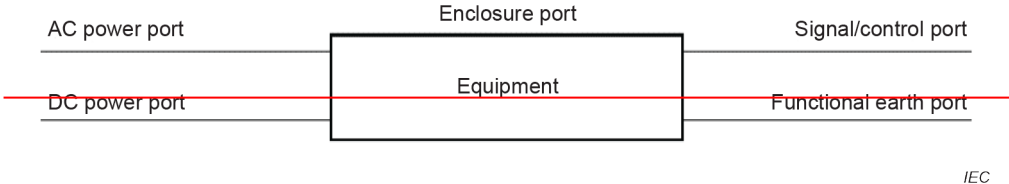


Figure 1 – Examples of ports

~~Note 1 to entry: Ports in the subject area of electromagnetic compatibility are specific cases of the port defined in IEC 60050-131:2002, 131-12-60.~~

~~[SOURCE: IEC Guide 107:2014, 3.1.12, modified – The presentation of the term and the wording of the definition have been revised for compatibility with IEC 60050 (all parts).]~~

particular interface of the equipment which couples this equipment with or is influenced by the external electromagnetic environment

Note 1 to entry: Examples of ports of interest are shown in Figure 1. The enclosure port is the physical boundary of the apparatus (e.g. enclosure). The enclosure port provides for radiated and electrostatic discharge (ESD) energy transfer, whereas the other ports provide for conducted energy transfer.

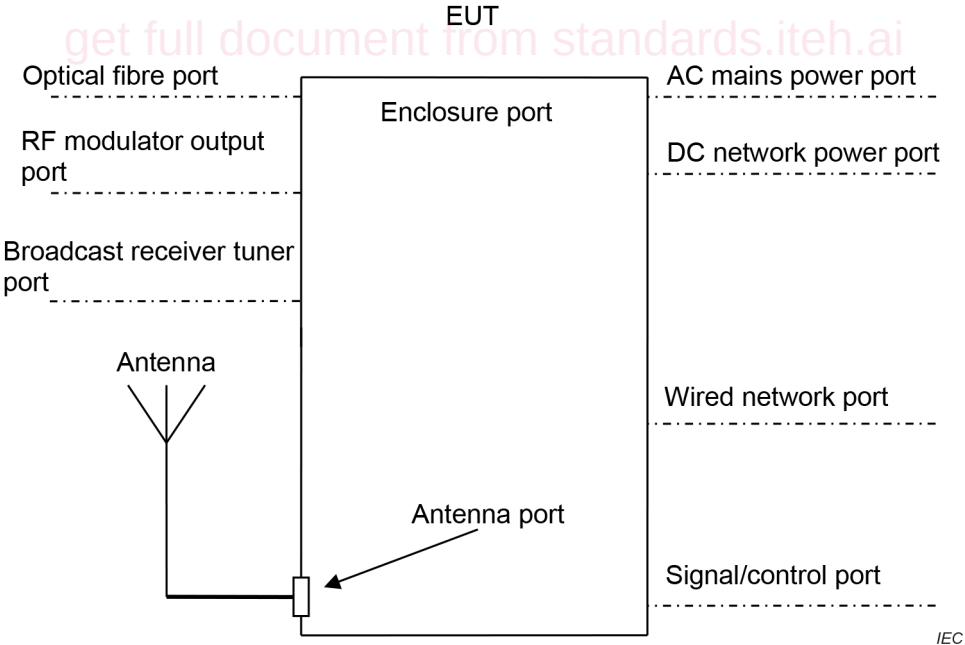


Figure 1 – Equipment ports

[SOURCE: IEC Guide 107:2014, 3.1.12]

3.8**portable**, adj

capable to be carried by one person

Note 1 to entry: Portability is typically specified by the equipment manufacturer based on the intended use, and the equipment design ~~and/or local regulation~~.

[SOURCE: IEC 60050-151:2001, 151-16-47, modified – The note to entry has been entirely redrafted.]

3.9**SAC****semi-anechoic chamber**

shielded enclosure, in which five of the six internal surfaces are lined with radio-frequency energy absorbing material (i.e. RF absorber) that absorbs electromagnetic energy in the frequency range of interest, and the bottom horizontal surface is a conducting ground plane for use with OATS test set-ups

[SOURCE: CISPR 11:2015/AMD1:2016, 3.22]

3.10**small equipment**

equipment, either positioned on a table top or standing on the floor which, including its cables fits in an imaginary cylindrical test volume of 1,2 m in diameter and 1,5 m height (to ground plane)

[SOURCE: CISPR 11:2015, 3.17, modified – Replacement of the term "small size equipment" by "small equipment".]

3.11**wired network port**

PORT for the connection of voice, data and signalling transfers intended to interconnect widely-dispersed systems by direct connection to a single-user or multi-user communication network

Note 1 to entry: Examples of these include CATV, PSTN, ISDN, xDSL, LAN and similar networks.

Note 2 to entry: These PORTS may support screened or unscreened cables and may also carry AC or DC power where this is an integral part of the telecommunication specification.

[SOURCE: CISPR 32:2015, 3.1.32]

3.12**equipment with radio functionality**

non-radio equipment (host equipment) including one or more radio devices or radio modules that can use host control function(s) and/or power supply

Note 1 to entry: The use of the included radio equipment can be for remote control (of the host equipment by an external equipment or vice versa) or for data exchange with external equipment.

Note 2 to entry: A radio device or radio module can be plugged-in, built-in or external.

[SOURCE: CISPR 11:2024, 3.1.12]

3.13**radio device**

assembly consisting of one or more radio transmitters and/or receivers, capable to function on a stand-alone basis with or without additional accessories

Note 1 to entry: These accessories can be incorporated in the assembly or connected to it from outside. Examples of accessories are: external antenna, remote control, headsets, power supply, display, etc.

[SOURCE: CISPR 11:2024, 3.1.26]

3.14

radio module

assembly consisting of one or more radio transmitters and/or receivers, intended to be incorporated in a host equipment

Note 1 to entry: A radio module can incorporate a power supply or any other accessories.

Note 2 to entry: A radio module can be plugged-in, built-in or external.

[SOURCE: CISPR 11:2024, 3.1.27]

3.15

radio transmitter

device producing radio-frequency energy intended to be radiated by an antenna for the purpose of radiocommunication or radiodetermination

[SOURCE: CISPR 11:2024, 3.1.28]

4 General test requirements

4.1 Test conditions

Tests shall be carried out on completely assembled equipment representative of the series production. Tests shall be performed within the specified operating conditions given in IEC 60974-1:2017 and IEC 60974-1:2017/AMD1:2019 or IEC 60974-6:2015, and at the rated supply voltage and frequency. Results obtained for RF emission and immunity at 50 Hz are valid for the same model operating at 60 Hz and vice versa.

Where this document gives options for testing particular requirements with a choice of test methods, compliance can be shown against any of the test methods, using the specified limits with the restrictions provided in the relevant tables.

Identical units may be used for testing in parallel. In this case, this information shall be recorded in the test report.

4.2 Measuring instruments

The measuring equipment shall comply with the requirements of CISPR 16-1-1:2019, Clause 4, Clause 5 and Clause 7 for the relevant detectors, and the basic standards referred to in Table 6, Table 7 and Table 8 of this document as applicable.

4.3 Artificial mains network

Measurement of the mains terminal disturbance voltage shall be made using an artificial mains network, ~~if commercially available~~, consisting of 50 Ω /50 μ H or 50 Ω /50 μ H + 5 Ω V-network as specified in CISPR 16-1-2:2014, 4.3 and 4.4 and CISPR 16-1-2:2014 and CISPR 16-1-2:2014/AMD1:2017, 4.1 and 4.2.

The artificial network is required to provide a defined impedance at RF across the mains supply at the point of measurement and also to provide for isolation of the equipment under test from ambient noise on the power lines.

4.4 Voltage probe

A voltage probe as specified in CISPR 16-1-2:2014, 5.2 ~~and CISPR 16-1-2:2014/AMD1:2017~~ shall be used when the artificial mains network cannot be used. The probe is connected sequentially between each line and the reference earth. The probe shall consist of a blocking