

# INTERNATIONAL STANDARD



This extended version of IEC 61010-2-032:2023 includes the content of the references made to IEC 61010-1:2010 and IEC 61010-1:2010/AMD1:2016

**Safety requirements for electrical equipment for measurement, control, and laboratory use –  
Part 2-032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement**

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**Safety requirements for electrical equipment for measurement, control, and laboratory use –  
Part 2-032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement**

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**SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT  
FOR MEASUREMENT, CONTROL, AND LABORATORY USE –**

**Part 1: General requirements**

**INTERPRETATION SHEET 1**

This interpretation sheet has been prepared by IEC technical committee 66: Safety of measuring, control and laboratory equipment.

The text of this interpretation sheet is based on the following documents:

ISH	Report on voting
66/497A/ISH	66/505/RVD

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

IEC 61010-1:2010 contains a requirement in 6.8.3.1 pertaining to voltage testers for type tests as follows:

*“The generator shall be able to supply a power of at least 500 VA.”*

This has given rise to the following questions:

How does one interpret the requirement for voltage testers in 6.8.3.1 of IEC 61010-1:2010? Specifically, this subclause requires that “The generator shall be able to supply a power of at least 500 VA.” Does this requirement apply throughout the rated output range of the voltage tester? What is meant by the word “generator”? Is the “generator” the power supply within the voltage tester, or the voltage tester output, or something else?

**Interpretation:**

“A voltage tester used for type tests must be able to deliver at least 500 VA at its full-rated output voltage. It does not necessarily need to deliver 500 VA if set for lower voltages.

For example, a voltage tester that can deliver 100 mA at any test output voltage up to 5 000 V (and a current corresponding to 500 VA above 5 000 V) would meet the requirement.

The requirements for voltage testers used for routine (production line) tests are included in Annex F. The requirements of 6.8.3.1 do not apply to these voltage testers.”

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