

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Laboratory resistors –
Part 1: Laboratory DC resistors**

**Résistances de laboratoire –
Partie 1: Résistances de laboratoire à courant continu**





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LABORATORY RESISTORS –

Part 1: Laboratory DC resistors

FOREWORD

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IEC 60477-1 has been prepared by IEC technical committee 85: Measuring equipment for electrical and electromagnetic quantities. It is an International Standard.

This first edition cancels and replaces the first edition of IEC 60477 published in 1974, and its Amendment 1:1997. This edition constitutes a technical revision.

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

- a) extended the resistor accuracy classes;
- b) deleted the resistor accuracy class expression in parts per million (ppm);
- c) excluded the active resistor from the scope of this document;
- d) updated the terms and definitions according to new IEC 60050 series;
- e) changed the term "resistance decade" to "resistance dial" to cover the multi-dial resistors with other resistance step values;
- f) updated the intrinsic error to intrinsic uncertainty according to IEC 60359;

- g) added the limits of relative stability for resistors of classes 0,000 05 to 0,01;
- h) added the requirements of high voltage resistors;
- i) updated the safety symbols and requirements according to the new IEC 61010 series;
- j) updated the insulation resistance requirements of resistors;
- k) added the requirements of temperature coefficient;
- l) updated the temperature requirements for transport and storage of resistors.

The text of this International Standard is based on the following documents:

Draft	Report on voting
85/821/FDIS	85/824/RVD

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

The language used for the development of this International Standard is English.

A list of all parts in the IEC 60477 series, published under the general title *Laboratory resistors*, can be found on the IEC website.

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

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