



CSA C22.2 No. 61010-2-081:19

**Safety requirements for electrical equipment for measurement, control, and laboratory use —
Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for
analysis and other purposes**
(IEC 61010-2-081:2019, MOD)

CSA C22.2 n° 61010-2-081:19

**Exigences de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire —
Partie 2-081 : Exigences particulières pour les appareils de laboratoire, automatiques et
semi-automatiques, destinés à l'analyse et à d'autres usages**
(IEC 61010-2-081:2019, MOD)



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measurement, control, and laboratory use –
Part 2-081: Particular requirements for automatic and semi-automatic
laboratory equipment for analysis and other purposes**

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

Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes

1 Scope and object

This clause of Part 1 is applicable except as follows:

1.1.1 Equipment included in scope

Replacement:

Replace the text, except the first paragraph, by the following new text:

This part of IEC 61010 applies to automatic and semi-automatic laboratory equipment for analysis and other purposes.

Automatic and semi-automatic laboratory equipment consists of instruments or systems for measuring or modifying one or more characteristics or parameters of samples, performing the complete process or parts of the process without manual intervention. Equipment forming part of such a system is within the scope of this document.

Examples of equipment within the scope of this document include:

- analytical equipment;
- automatic sampler (pipettor, aliquoter),
- equipment for sample replication and amplification.

NOTE 1 In the case of analytical equipment, the complete process usually includes the following steps:

- taking a specific quantity of the sample;
- preparing the sample by chemical, thermal, mechanical or other means;
- measurement;
- display, transmission or printing of the results of measurement.

NOTE 2 If all or part of the equipment falls within the scope of one or more other Part 2 documents of IEC 61010 as well as within the scope of this document, consideration is given to those other Part 2 documents.

1.1.2 Equipment excluded from scope

Addition:

Add the following new item:

- aa) IEC 61010-2-101 (in vitro diagnostic (IVD) equipment).