



PERMANENT DOCUMENT

**ENEC 303
Annex BB**

**Annex BB
to Routine Test Requirements for manufacturers
(as per Article 9 of the Agreement)**

**Safety requirements for electrical equipment for
measurement, control, and laboratory use
Part 2-201: Particular requirements for control equipment
EN 61010-2-201**

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Annex BB to PD ENEC 303

Safety requirements for electrical equipment for measurement, control, and laboratory use –

Part 2-201: Particular requirements for control equipment EN 61010-2-201

Routine tests

Annex F of Part 1 is applicable, except as follows.

F.2 Protective earth

Addition between the paragraph and the note:

The resistance shall not exceed 0,1 Ω .

F.3.1 General

Addition at the end of the subclause:

No test is required for supply voltages equal to or below those specified in IEC 61010-1:2010, 6.3.1, a).

F.4 Floating circuits

Addition at the end of clause:

No test is required for supply voltages equal to or below those specified in IEC 61010-1:2010, 6.3.1, a).

Additional clause:

F.101 Supply circuits other than mains and floating circuits

These are supply circuits other than those define in F.3 and F.4.

A test voltage is applied between:

- a) the supply circuit, and
- b) all other circuits which have to be isolated from the supply circuit in a), connected together.

During this test, the control equipment shall be electrically isolated from any external earthing.

This test is not applied to small metal parts e.g. name plates, screws or rivets, since they are not normally connected to any circuit.

The test voltage may be a.c. or d.c. or impulse, and is selected from IEC 61010-1:2010, Table F.1 for the appropriate overvoltage category. For the a.c. and d.c. tests, the test voltage is raised to its specified value within 5 s, and maintained for at least 2 s. Impulse tests are the 1,2/50 μ s test specified in IEC 61180, conducted for a minimum of three pulses of each polarity at 1 s minimum intervals.

No flashover of clearances or breakdown of solid insulation shall occur during the test, nor shall the test device indicate failure.

No test is needed for SELV/PELV circuits/units.

No test is required for supply voltages equal to or below those specified in IEC 61010-1:2010, 6.3.1, a).