



PERMANENT DOCUMENT

**ENEC 303
Annex AR**

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

**Intrusion and Hold-up Alarm Systems Control and
Indicating equipment and power supplies
covered by EN 50131-3, EN 50131-6 and EN 50134-3**

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Annex AR to PD ENEC 303

Intrusion and Hold-up Alarm Systems Detectors covered by EN 50131-3, EN 50131-6 and EN 50134-3

1 ROUTINE TESTS (100%)

1.1 Visual Inspection

The visual inspection shall check for completeness and mechanical verification against a checklist for the product.

Visual inspection shall take place to ensure at least the correct application of the rating plates and the presence of the instruction leaflet within the packaging.

1.2 Earth continuity test

For class I apparatus, the continuity of the protective earthing connection shall be checked between the protective earth contact of the MAINS plug or appliance inlet, or the protective earthing terminal in case of a permanently connected apparatus, and

- the accessible conductive parts, including terminals regarded as accessible, which shall be connected to the protective earthing terminal, and
- the protective earth contact of the socket-outlets respectively, if provided to deliver power to other apparatus.

The test current is 150 % of the rating of the overcurrent device protecting the protective bonding conductor, but not less than 10 A and not more than 25 A (a.c. or d.c.) and is applied for any duration between 1 s and 4 s. The source shall have a no-load voltage not exceeding 12 V.

The measured resistance shall not exceed 0,1 Ω .

It is permitted to include the power cord (if any) in the resistance measurement and, if the result exceeds 0,1 Ω , to subtract the resistance of the protective earthing conductor of the power cord.

NOTE. Care should be taken that the contact resistance between the tip of the measuring probe and the conductive part under test does not influence the test result.

1.3 Dielectric strength test

The equipment shall be subjected to the dielectric strength test according to clause 5.2 of EN 50514.

No flashover or breakdown shall occur during the test.

2 PERIODIC TESTS

Each series/family (same basic construction) shall be subject to a partial repetition of tests according to the standard at least once a year. Such tests have to be based on the main critical test results of the initial type tests.