

ERD 05K
DIELECTRIC STRENGTH TESTER 5KV
IEC 60335-1 / IEC 60598-1



SECOM

ERD 05K

DIELECTRIC STRENGTH TESTER 5KV

IEC 60335-1 / IEC 60598-1



In the manufacture of all electrical products, and especially when we are talking about appliances and lighting, there is a liability for the manufacturer to ensure electrical safety of their products.

The **IEC 60335-1 in Annex A**, provides the following tests at 100% of the production:

Dielectric Strength Test, refer to the equipments according to their isolation to a test voltage of **1000 VAC and 2500 VAC**, with a current limit of **5 mA**, and in some cases 30 mA.

This essay has the peculiarity, that to ensure proper testing is often necessary to do with the equipment powered and not passive, primarily in facilities that have relays, contactors or electronic circuits.

SECOM reserves the right to change the specifications or design without prior notice.



Technical Characteristics

- Power Supply: 220Vca, 50 Hz, single-phase (115 Vca optional).
- Test Voltage: 0 - 5000Vca.
- Current limit: 5mAca.
- Display LCD.
- Totally: Control by microcontroller.
- Verification Set (optional).
- Dimensions:
 - Height: 300mm.
 - Width: 450mm.
 - Depth: 320mm.
- Weight: 35 Kg
- According to: IEC 60335-1 Anexo A.
- According to: IEC 60598-1 Anexo Q.

In the case of the lights, IEC 60598-1, provides in Annex Q, the following activities:

Dielectric Strength Test, refer to the equipments according to their isolation to a test voltage of 1500 VAC, with a current limit of 5 mA. Or:

- Insulation Resistance Testing with a voltage of 500 Vdc, where it should not be less than 2 Megohms.
- Polarity test, when it is necessary for the proper functioning of the fixture.

These tests performed in a production line, required by the manufacturer of the apparatus necessary to ensure its implementation and registration. This makes this process can become a bottleneck on the line.

The acquisition and control system is based on a next-generation microcontroller mounted on a plaque selection, filtering, signal processing and measurement, owner. The board is linked to a LCD display which can display all options of the system (settings, test results, etc).

Optionally provided Verification Set, which allows you to control the proper functioning of equipment.

The equipment is delivered with its **Calibration Report** traced to national standards and a user manual for use.

The components used in the design ensures an excellent quality of work.

Punta del Indio N° 7411 (Camino Viejo a Soldini al 3790)
phone. +54 341 3080258 | contacto@secom.com.ar
www.secom.com.ar