

# Black corners for normative tests

## Heating tests

Heating tests according to EN 60335

1-5 measurement areas

Distribution of sensors on request

Integrated or separate measurement system

Optional power supply for samples



### **Generalities :**

The black corners are heat-test devices for testing according to EN 60335.

The diversity of products to be tested leads to realize the dimensions of equipment and different forms. Some devices require only a test on a single plane, others must be observed 2 or 3 plans and finally, built-in appliances require 5 plans of measurement.

### **The sensors :**

The achievement of thermocouples is a particularly sensitive point. Electrona gives high level of demand for this element to conform better to the requirements of the standards:

- Thermocouple J
- Realization of the hot junction in a neutral atmosphere
- Precise execution of the copper pad
- Silver brazing for thermocouple mounting



### **Integration of the measurement system :**

These systems generally use a large number of measurement channels, which leads to a large number of connecting cables between the sensor part and the acquisition system, and a costly source connections and failures. Electrona advocates for this reason integrate measurement systems directly into the black corners. This also saves space in the test system to service.

### **Integration of power supply :**

The test equipment must be powered from a controlled source. It is also possible to integrate this power supply into the system. The connecting cables required for operation will be kept to a minimum.

## Your specifications :

For the study of your project, we need to know :

- The nature and dimensions of the products to be tested
- The number of measuring planes
- A rough plan of sensors distribution

If power supply is to be provided :

- Range of voltage
- Range of frequency (50 – 60 Hz)
- Power of the products to be tested

Your purchase order will lead to a review study. Equipped with a 3D software, we will be able to provide you with a document and you may verify that the product will correspond to your expectations.

## Examples :



*Workplace*



*Large dimensions*



*5 plans – Built-in products*



*1 plan – Flat products*