

# THERMOMETRY

## GPG – IEC 60695-2-10

IEC 60695-2-11 | IEC 60695-2-12 | IEC 60695-2-13



### SCOPE

Testing the ignitability of electrotechnical products.

### PRINCIPLE

The device is used to determine the refractory properties of electrotechnical end products and materials according to DIN EN 60695-2-10. The glow wire simulates a strongly heated power cable as a fire source. The temperature at the filament is measured non-contact via an infrared sensor and has a measuring range of 400 °C - 1000 °C. During the test, the specimen is moved to the filament at a speed of approx. 11 mm / s, with the specimen carriage running freely. The exposure time of the specimen to the filament can be set variably via a timer. After expiry of the test time, the specimen carriage is automatically moved back. The rms value of the current flowing through the filament is indicated by a current transformer with display. The specimen carriage is pulled by weights to the filament with a force of 1 N during the test. Specimens from 50 x 120 mm to 120 x 120 mm can be clamped in the specimen holder. The specimen thickness can be a maxi-

imum of 20 mm. The power supply is provided via a device connection 230 VAC (50/60 Hz)

### FEATURES

Automatic travel of the specimen holder carriage.  
Non-contact and wear-free measurement of the filament temperature.

### COMPONENTS

Test rack mounted to device  
Specimen carriage with linear guide  
Specimen holder  
Wire rope hoist with weights  
Scale for flame height  
Penetration depth adjustable and scale for penetration  
Glow wire  
Infrared-sensor OPTCSM2W2MHCF:  
Temperature range 385 °C – 1600 °C  
Temperature controller with:  
- Steady voltage output  
- Self optimization  
- Switchover operating mode manual / automatic  
- Switchover temperatur control Run / Stop  
Linear drive with approx. 11 mm/s travel speed  
Transformer with display 0 –200 A (Hall effect RMS)  
Timer with adjustable dwell time and time display  
Hand stop watch for manual timing

### DIMENSIONS

Width x depth x height: approx. 520 x 600 x 400 mm \*  
Weight: approx. 30 kg\*

### SUPPLIES

Electrical current 230 VAC 50/60 Hz, approx. 500 VA

### TO BE PROVIDED BY THE CUSTOMER

Exhaust air system

### OPTIONAL ACCESSORY

Combustion chamber

\* Our products are constantly being developed. For this reason the actual dimensions may differ.

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