

GPG – EN IEC 60695-2-10

EN IEC 60695-2-11 | EN IEC 60695-2-12 | EN 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 EN IEC 60695-2-10. The glow wire simulates a strongly heated power cable as a fire source.

The temperature at the glow wire is measured with a type K thermocouple. Alternatively, an infrared sensor with a measuring range of 385 - 1600 °C is used, which measures the temperature on the glow wire contactlessly.

Due to the current version of the EN IEC 60695-2-10 standard, the use of a thermocouple is mandatory. The use of an infrared sensor will be possible again in the near future.

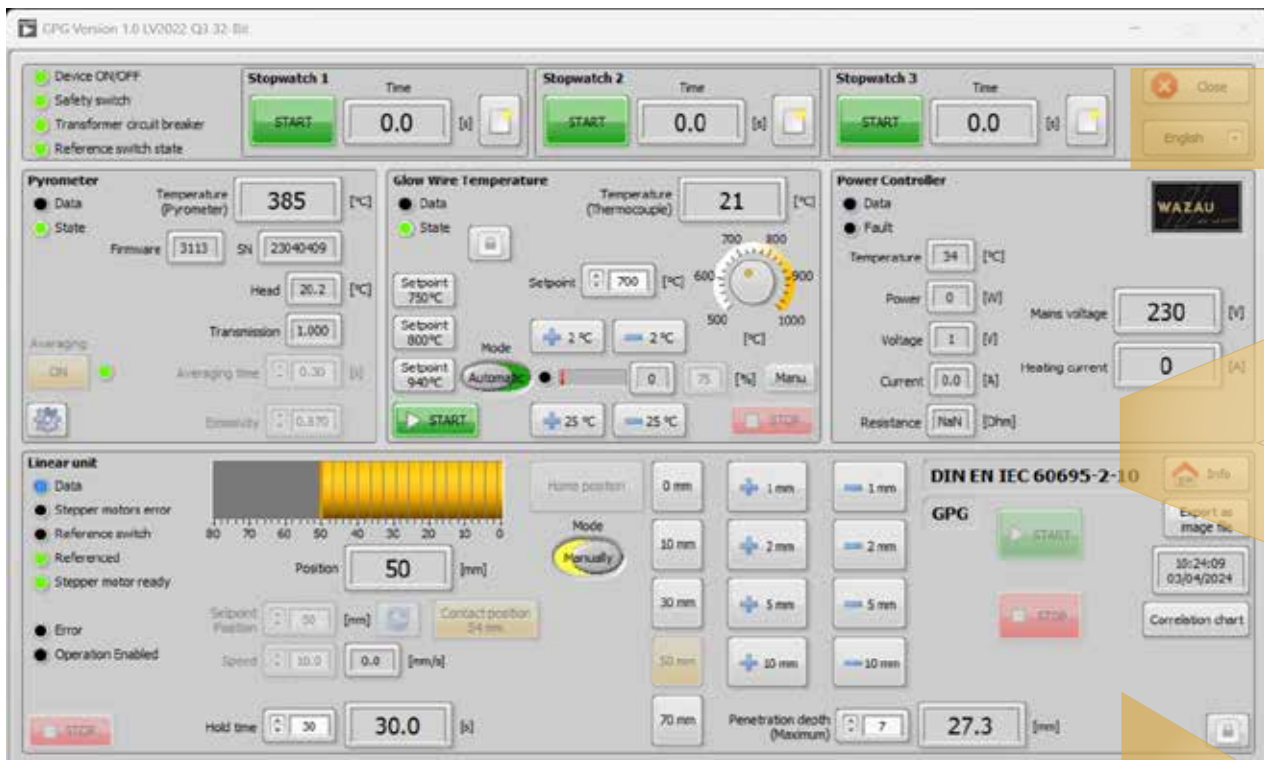
We therefore offer you a version with infrared sensor only or with thermocouple and infrared sensor.

During the test, the sample is moved to the glow wire while the sample carrier trolley runs freely. The dwell time of the sample on the glow wire can be variably set via a timer. At the end of the test time, the sample carrier trolley is automatically retracted.

The sample carrier trolley is pulled by weights to the glow wire with a force of 1 N during the test. Samples from 50 x 120 mm to 120 x 120 mm can be clamped in the sample holder. The sample thickness can be a maximum of 20 mm.

The power supply is provided via a 230 VAC (50/60 Hz) IEC connection. The effective value of the current flowing through the glow wire is displayed in the software.

THERMOMETRY



SPECIAL FEATURES

Electrical movement of the sample holder trolley
Optional non-contact and wear-free measurement of the glow wire temperature
Software control of the glow wire temperature and the linear unit
Automated test procedure

SCOPE OF DELIVERY

Testing device with control unit
Carriage with profile rail guide
Specimen holder
Rope pulley with weights
Measuring scale for flame height
Measuring scale for penetration depth
Wooden board with drip tray (without tissue paper)
Glow wire
Thermocouple type-K Ø 1 mm (temperature measurement standard / temperature range 0 °C...1300 °C)
Infrared sensor (pyrometer) OPTCSMA2MHCF (additional temperature measurement / temperature range 385 °C...1600 °C)
Factory test certificate for infrared sensor (pyrometer) (3 reference temperatures 395 / 500 / 1000 °C)
Temperature controller with RS-485 interface
Power controller with RS-485 interface
Linear drive 10...15 mm/s travel speed
Transformer 230V // 2.5 VAC
Current transformer 0...200 A RMS
Software

- ♦ LabVIEW-based software DIN EN IEC 60695-2-10 (compatible with Windows 11/10 64-bit)
 - ♦ Recording temperature thermocouple and infrared sensor (pyrometer)

- ♦ Temperature controller control Manual / automatic operating mode
- ♦ Temperature controller control RUN / STOP mode (temperature range 500 °C...1000 °C)
- ♦ Timer control for dwell time and time display
- ♦ Recording input voltage and input current transformer (primary)
- ♦ Transformer output current detection (secondary)
- ♦ 3 software stopwatches

DIMENSIONS

Width x depth x height: approx. 600 x 500 x 700 mm *
Weight: approx. 30 kg*

SUPPLIES

Electric current 230 VAC 50/60 Hz, 500 VA

TO BE PROVIDED BY THE CUSTOMER

Exhaust air extraction system

OPTIONAL ACCESSORY

Fume cupboard DN150



Pyrometer

Laser visor for pyrometer adjustment

* Our products are constantly being further developed. For this reason, the actual dimensions may vary. © 04a/2024