

# PRIMARY OR SECONDARY INJECTION TEST CASE

300Vac  
350Vdc

200Aac

1Uac  
1Iac  
1Vdc

## Multi-range Electrotechnic generator :

- **1 Electrotechnic current generator:**
  - 1 Alternative current up to 200Aac : GCTM200.
  - 1 Alternative current up to 100Aac : GCTM100.
  - 1 Alternative voltage up to 250Vac.
  - 1 Rectified and filtered voltage up to 350Vdc.

## or • 1 Electronic voltage generator :

- 1 Alternative voltage up to 300Vac.

## This system allows you to test:

- Minimum or maximum current or voltage relays.
- Current or voltage transformers.
- Delayed, electrotechnic and static relays.
- Power Relays.
- Statimax relays without auxiliary supply.
- **Digital relays.**



Picture for illustration purposes only.

GCTM 100 / 200

## • Packaging

- Box - «Flight Case».
- Dimensions : L = 360 - W = 280 - H = 300 mm.

## • Main power supply

- 230Vac Single Phase + Earth - 50/60 Hz.
- Connection by Europa plug - Cord supplied.
- Protected by mini circuit-breaker.

## • MICROPILOT®

Microcontroller controlled module with backlight LCD display and function keys allowing to execute the following operations :

- Configuration of the test type (level setting, time delay).
- Configuration of the setting mode «Maximum» or «Minimum».
- Measure of the tripping value (hold function).
- Measure of the amplitude (RMS) : 0.5% of the range.
- Delay measure up to 2000 sec (resolution 1ms).
- Software able to realize start, start/stop and stop functions thanks to a push button on the appliance or using an external information (contact, or voltage from 24 up to 240Vdc).
- Frequency measure (accuracy 0.01Hz ± 1 digit).
- Phase angle measure (accuracy 1° ± 1 digit).
- Measure of recloser delays.
- Recognition of the state of the tripping information (contact or voltage 24 to 240Vdc).
- Serial output RS232.
- Contact relay output NO/NC : 250Vac - 2Amax.
- Measure input of external current : 5Aac max.
- Measure input of external voltage : 300Vac max.

## • Connectivity

- Output current lockable security plugs : ø6mm.
- Output voltage and timer security plugs : ø4mm.
- Lockable threaded rods suitable to current terminals.
- ø6 / ø4 adaptators for current terminals.
- GCTM100 : Cables 2 x 2.5m - 25mm<sup>2</sup>.
- GCTM200 : Cables 2 x 2.5m - 50mm<sup>2</sup>.

## • Electrotechnic voltage or current generator

- Single phased electrotechnic generator.
- Protected by mini circuit-breaker.
- Continuously adjustable using an auto-transformer.
- Use of an output transformer (500VA).
- 4 Ranges for GCTM200 : 2A/10A/50A/200A.
- 4 Ranges for GCTM100 : 2A/10A/50A/100A.

Outputs	Ranges	Time	Umax (Pmax)
• Current AC	0 to 2Aac	10 minutes	250V (500VA)
	0 to 10Aac	10 minutes	50V (500VA)
	0 to 50Aac	1 minute	10V (500VA)
GCTM100	0 to 100Aac	1 minute	5V (500VA)
GCTM200	0 to 200Aac	1 minute	2.5V (500VA)
• Voltage AC	0 to 250Vac	Permanent	2A (500VA)
• Voltage DC	0 to 350Vdc	10 minutes	1.5A (500W)

## • Electronic voltage generator

- Electronically controlled voltage.
- Adjustment using potentiometers by 0.1V steps.
- Protection against overload, led indicator and reset switch.
- Frequency : Adjustable from 40 to 65Hz by 0.01Hz steps.
- Phase : Adjustable from 0 to 360° using «+» and «-» keys.

Range U	Time	I max	Power
0 to 75Vac	Permanent	0.66A	50VA
0 to 150Vac	Permanent	0.33A	50VA
0 to 300Vac	Permanent	0.16A	50VA

## • Options

- «Flight Case» with cord storage space.
- **CTRWIN** : Real time capture software of all results running on Windows XP/NT/Vista/7.

## • Others

- Material certified according to EN50081-2 et EN50082-2 - EN61010-1.

Guarantee one year parts and labor. All interventions are carried out exclusively in our factory.

Due to continuous research program, these characteristics can be modified.