

# SECONDARY INJECTION TEST CASE

300V

200A  
max

3U  
1I

## High accuracy electronic generator :

- 3 Voltages up to 300Vac - 50VA

## 1 electrotechnic current generator :

- PTR531E-200A : 1 current up to 200Aac
- PTR531E-100A : 1 current up to 100Aac
- Power max : 500VA

## Manual mode :

- Manual adjustment of the different injection values by push button and potentiometers.
- Test configuration thanks to the MICROPILOT® menus.



Picture for illustration purposes only.

PTR531E

## • Packaging

- Box - «Flight Case».
- Dimensions : L = 535 - W = 450 - H = 460 mm.

## • Main power supply

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

## • Fixed auxiliary voltage supply

- 24 / 48 / 127 / 250 Vcc (15W). Selection by switch button.

## • MICROPILOT®

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

- Configuration of the test type.
- Configuration of the setting mode «normal» or «fault».
- Choice of current and voltage ranges.
- Display current, voltage and homopolar values.
- Measure of the amplitude (RMS) : 0.2% of the range.
- Control of current and/or voltage injection and start of the timer when the configuration changes between «normal» and «fault» state. Timer stops automatically when receiving an information on «stop» terminals.
- Frequency measure (accuracy 0.01Hz ± 1 digit).
- Phase angle measure (accuracy 1° ± 1 digit).
- Delay measure up to 2000 sec (resolution 1ms).
- Measure of recloser delays.
- Recognition of the state of the tripping information (contact or voltage 24 to 240Vdc).
- Automatic measure of the tripping value (hold function).
- Serial output RS232.

## • 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.
- Câbles 2 x 2.5m - 50mm².

## • 3 Electronic generators 50VA

- Electronically controlled current and voltage.
- Adjustment with potentiometers by 0.01A steps for current and 0.1V steps for voltage.
- Protection against overload, led indicator and reset switch.
- Frequency : Fixed 50Hz - Adjustable from 40 to 65Hz by 0.01Hz steps.
- Phase angle : Adjustable from 0 to 360° using «+» and «-» keys.
- Possibility to simulate a homopolar voltage phase opposed with U1 voltage without distort the RST triangle.

Range U	75V	150V	300V
I max.	0.66A	0.33A	0.16A
Time	Permanent	Permanent	Permanent

## • 1 Electrotechnic current generator 500VA

- Protected by mini circuit-breaker.
- Continuously adjustable using an auto-transformer.
- Use of an output transformer (500VA).
- Output ranges switching knob.

	Range I	U max	Time
PTR531E-100A	10A	2 or 50V	Permanent
	50A	5 or 10V	1 min
	100A	2.5 or 5V	1 min
PTR531E-200A	10A	2 or 50V	Permanent
	50A	5 or 10V	1 min
	200A	1.25 or 2.5V	1 min

## • Options

- Main power supply 115Vac.
- Frequency : 40 to 400 Hz by 0.1Hz steps.
- Auxiliary power supply : 24 / 48 / 127Vcc (15W) / 100Vca (15VA).
- Other voltage or current ranges on request.
- Rolling tray : PTR531E - PR.
- CTRWIN : Real time capture software of all results running on Windows XP/NT/Vista/7.

## • Other

- This material is CEM certified according to EN 50081-2 and EN 50082-2.

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

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