

# SECONDARY INJECTION TEST CASE

300V

25A

3U  
3I

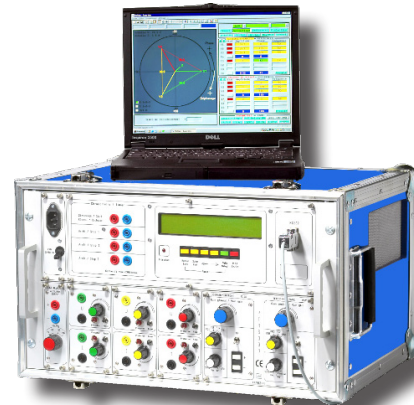
## High accuracy electronic generator :

- 3 Voltages up to 300Vac - 50VA
- 3 Current up to 25Aac - 100VA

## Two user modes available :

- **Manual Mode :**
  - Manual adjustment of the different injection values by push button and potentiometers.
  - Test configuration thanks to the MICROPILOT® menus.
- **Driving Mode:**
  - Driving mode thanks to the PTRPILOT software running under Windows XP/NT/Vista/7.

Picture for illustration purposes only.



PTRS 133 / 033

## • Packaging

- Box - «Flight Case».
- Dimensions : L = 535 - W = 320 - 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.

## • Electronic generators

- 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.

## 3 Voltage 50VA and Current 100VA generators :

Model	Voltage Ranges (I max.)	Current Ranges (U max.)
133V6A	150V (0.33A)	12.5A (8V)
133V6B	300V (0.16A)	12.5A (8V)
133V6C	150V (0.33A)	5A (20V)
133V6D	300V (0.16A)	25A (4V)
133V6E	150V (0.33A)	25A (4V)

Option : PTRS033 identical to the PTRS133 except current power to 50VA

## • Options

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

## • Others

- This Material is CEM certified according to EN50081-2 and EN50082-2.

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.