

# GEN-13V RECLOSER ANALYZER

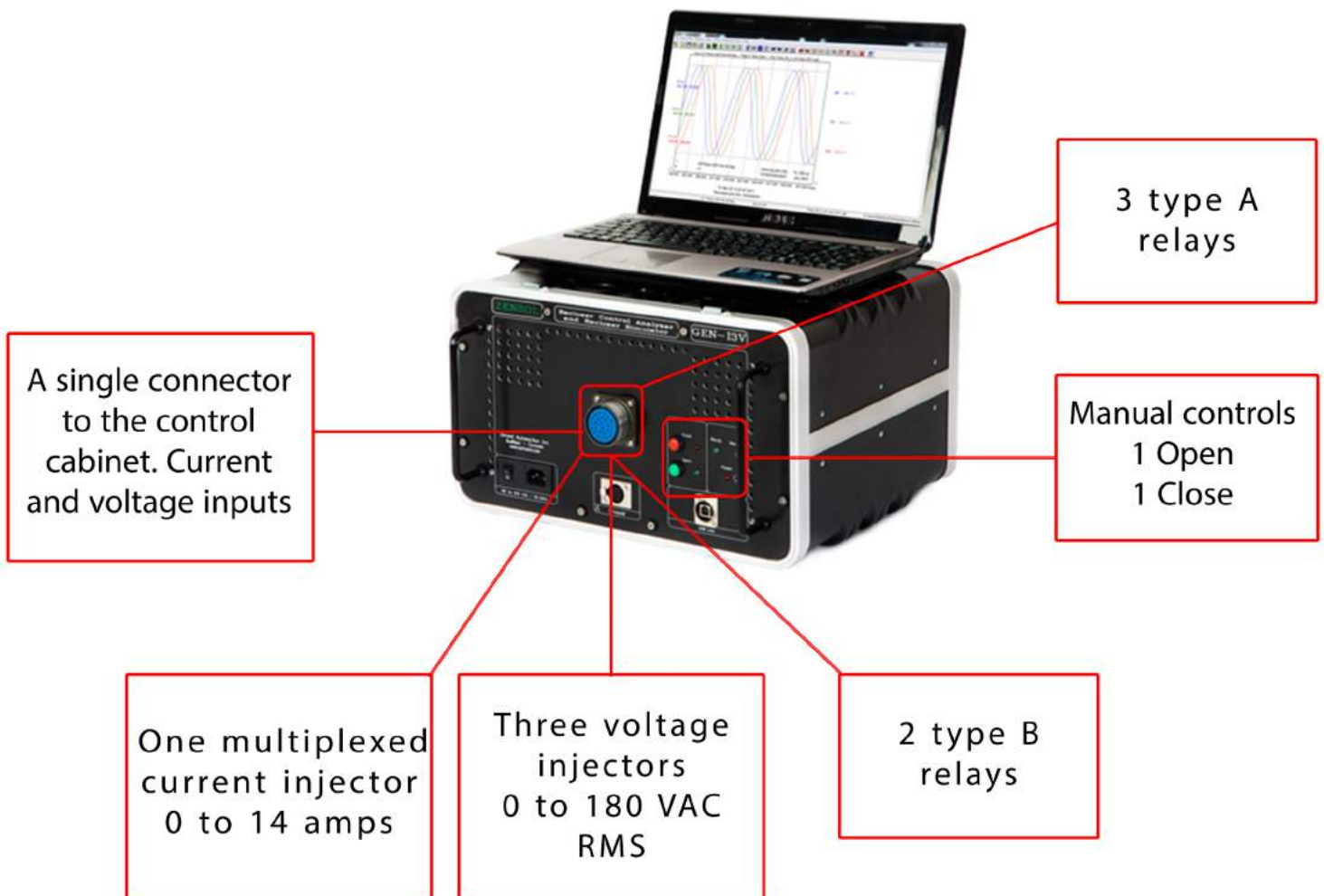


# What is the GEN-13V ?

The GEN-13V is an analyzer that can test any type of recloser control cabinet. In addition to current injection; it can supply three totally independent and programmable voltage signals in order to simulate line current faults on the electrical grid.

The GEN-13V is perfect for newer recloser models where the control cabinet measures both line current and voltage across the recloser contacts.

The GEN-13V is managed by OpenZen, a specialized software.







Many specialized interfaces are available for various manufacturers: Cooper F3, F4, F5, F6, ABB PCD2000 as well as Schweitzer 351R/651R, etc

Easy installation for testing thanks to a simple “plug-and-play” connection.

Makes graphic result analysis easier for you by comparing the response time against the protection curves, with a 10% tolerance

You can easily analyze any type of control cabinet thanks to the many preloaded TCC curves included in OpenZen

The GEN-I3V is controlled by OpenZen, a specialized software integrating all the functions needed for testing reclosers as well as creating professional-grade reports

# Technical specifications

## GEN-I3V

[www.zensol.com](http://www.zensol.com) [www.zensol.net](http://www.zensol.net)

The GEN-I3V simulates the mechanical portion of a recloser during the tests. Various adapter types are available for a wide variety of control cabinets

### CURRENT SOURCE

Number: 1 current source (multiplexed over three outputs)  
Range: from 0 to 14 Amps, by 3.67 mA steps  
Waveform: Sinewave  
Frequency range: from 1 Hz to 3kHz in 1 Hz increments  
Phase control: from 0 to 360 degrees with one degree increments, accurate to 0.09 degrees

### CURRENT MEASUREMENT

Current measurement is done internally thanks to a Hall effect transducer and the results are displayed in the software

### VOLTAGE SOURCE

Number: 3  
Voltage range: 0 to 180 VAC RMS in 42 mV steps  
Waveform: Sinewave  
Frequency range: from 1 Hz to 3 kHz in 1 Hz increments  
Phase control: from 0 to 360 degrees with one degree increments, accurate to 0.09 degrees

### VOLTAGE MEASUREMENT

Voltage measurements on all three channels is performed internally on the GEN-I3V and the results are displayed in the software

### ISOLATED OPEN/CLOSE INPUTS

Open command inputs: 1  
Close command inputs: 1  
The close and open commands are controlled:

- Either by the OpenZen software
- Or the control cabinet
- Or the front panel pushbuttons

### FRONT PANNEL CONNECTOR

Number : 1  
Type : Amphenol  
Number of pins : 26  
Specification: MIL-5014

### MEASUREMENT SPECIFICATIONS

Sampling time: 44 $\mu$ s to 28 000 $\mu$ s  
Sampling rate: 35.7Hz to 22727Hz  
Recording time: 1ms to 100 minutes  
Resolution: 1 $\mu$ s  
Signal/Noise: Better than 80 db  
Graphic resolution: unlimited zoom capability to view the time and amplitude of each sample

### GENERAL

Size: 17"x16.5"x10" (43x42x25.4 cm)  
Weight: 32 lbs (14.5 kg)

### SYSTEM INCLUDES

OpenZen software  
2 year warranty  
OpenZen manual  
Calibraton certificate and test reports

### OPTIONAL SPECIALIZED INTERFACES

Interface box for Coper F3, F4, F5, F6  
Interface box for ABB PCD, OVR-1, OVR-3  
Interface box for Schweitzer SEL 351R, 651R  
Interface box for Westinghouse ESV  
Interface box for Panacea  
Interface box for Artech  
Interface box for Tavrda  
Other interfaces available (please contact us)