

# CGPT-SCIK

## Secondary Current Injection Kit

# CGPT

### Introduction:

The modern electric power system consist of several elements e.g. alternators, transformers, station bus-bars, transmission lines and other equipment. It is desirable and necessary to protect each element from a variety of fault condition which may occur sooner or later. The protective relay to detect the improper behavior of any circuit element and initiate corrective measures. As a matter of convenience with the protection of alternators, transformers, bus-bars and protection against over voltages.

The most serious faults on alternators which require immediate attention are the stator winding faults. The major faults on transformers occurs due to short- circuits in the transformers on their connections the basic system used for protection against these faults is the differential relay scheme because the differential nature of measurements make this system much more sensitive then other protective system.



## Application

Secondary injection test system can be used to test the following electrical equipments which normally carry the current of various applications.

- Relays – Pick up and tripping test
- Small MCB's - Fault current tripping test
- Low Range C.T – Ratio test

## Specifications

Secondary Current Injection Kit is a sophisticated, user friendly and advanced instruments designed to satisfy the common needs of the relay and CT testing. The top panel of the instrument is designed in such a way that the panel itself guides the operator for the connections and testing. The kit is having MCB protection as well as glass fuses to protect the over loads and short circuits.

- Heavy Duty- lab and field use equipment
- Interlocking & Safety: Low/High level interlocking
- Rated capacity terminals, Bus Bar & Multi strained Copper Cable
- Single and compact unit for portability.
- Over load protection from MCB and HRC fuse protection for control circuit.

## Technical Specification

- Input power Supply : 220 Volts  $\pm 10\%$ , 50HZ AC single  $\phi$  / 415 Volts  $\pm 5\%$ , 50HZ AC three  $\phi$
- Output Test Current : upto 200 Amps (1 $\phi$  / 3 $\phi$  as user defined)
- Output Test Current Range : 0 - 1 - 5 - 10 - 25 - 50 - 100 - 200 Amps
- Burden (Capacity) : upto 1000VA
- Duty Cycle : 30minutes ON - 30minutes OFF
- Mode of Operation : Manual
- Display / Metering :
- Digital Ammeter having accuracy class 0.5 or better to measure output current.
  - Digital Voltmeter with Accuracy class 0.5 or better to measure output AC voltage.
  - Digital Voltmeter with Accuracy class 0.5 or better to measure output DC voltage.
  - Digital Timer Accuracy  $\pm 0.05\%$  or better to measure Tripping Time .



Model	Ranges	Burden Capacity
SCIK – 200	0 – 5 – 10 – 25 – 50 - 100 – 200 Amps	600 VA
SCIK – 100	0 – 5 – 10 – 25 – 50 - 100 – 200 Amps	600 VA
SCIK – 50	0 – 1 - 5 - 10 – 25 – 50 Amps	400 VA
SCIK – 20	0 – 1 - 5 - 10 – 20 Amps	300 VA

## Accessories

### All suitable test leads provided :

- PVC insulated 4 sq. mm. copper cable 2 X 3 mtrs. for 20 Amps (Both side lugs)
- PVC insulated 10 sq. mm. copper cable 2 X 3 mtrs. for 50 Amps (Both side lugs)
- PVC insulated 25 sq. mm. copper cable 2 X 3 mtrs. for 100 Amps (Both side lugs)
- PVC insulated 50 sq. mm. copper cable 2 X 3 mtrs. for 200 Amps (Both side lugs)
- PVC insulated 2.5 sq. mm. copper cable 2 X 4 mtrs. ( one side banana plug & other side small crocodile clip)
- PVC insulated 1.5 sq. mm. copper cable 4 X 4 mtrs. ( one side banana plug & other side small crocodile clip)
- PVC insulated 1.5 sq. mm. two core copper cables for input supply.Length : 4 meters

Note

The instrument is accompanied with Test & calibration sheet. 2. Test facility can be provided at the factory with available test setup. 3.To keep pace with the latest technology CG Power Technology reserves the right to update its system. Hence, information in the catalogue is likely to change without notice. 4.Accuracy specified for temperature range of 28°C  $\pm 3$ :C & 55% RH  $\pm 10\%$

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