



SECONDARY CURRENT INJECTION TEST SET (RELAY TEST SET)

MODEL : CIE/RTS-5B

Introduction :

This is a portable Testing Kit in one unit, suitable for testing protective relay, over current relay, earth fault relay, protective device, circuit breaker, tripping coils etc. The set is designed for both laboratory and field use.



TECHNICAL FEATURES :

Input : 230V, Single phase 50Hz AC.

Output : 1) Current Output

- a) 0-1 Amp. At 6 Volts/100 Volts
- b) 0-5 Amp. At 6 Volts/100 Volts
- c) 0-10 Amp. At 6 Volts/100 Volts
- d) 0-20 Amp. At 6 Volts/100 Volts
- e) 0-50 Amp. At 6 Volts
- f) 0-100 Amp. At 6 Volts
- g) 0-200 Amp. At 6 Volts

Current output is continuously variable and the output is taken out through a multi-range C.T. The secondary is connected to an ammeter scaled in 0 to 100%.

- 2) AC Voltage Output :
Continuously Variable 0-230V AC.
Capacity – 240VA (Max)

OR

- 3) DC Voltage Output :
Continuously Variable 0-240V DC.
Capacity – 240VA

- 4) Time Measurement :
0 – 9.999 sec. & 0 – 99.99 sec. in two ranges
Accuracy : 1%

CURRENT CIRCUIT

Loading Transformer ;

Double winding loading transformer of suitable burden to provide corresponding current output specified before.

Measuring CT :

Multi ratio wound primary current transformer

Ratio : 1A-5A-10A-20A-50A-100A-200A/5A

Variable Auto Transformer :

For smooth variation of current output at various ranges selected.

Tripping Circuit :

The current output will be cutoff in case of any overload or even if the relay under test is actuated.

Metering :

Digital Meter. Basic Range : 0 to 5A AC.

Scaled in 0 to 100% for all selected range. Accuracy : 2% of full range.

VOLTAGE CIRCUIT

One AC/DC change over switch will be provided in the set to select the voltmeter in AC or DC mode.

Variable Auto Transformer :

For smooth variation of Voltage output AC 0-240V AC/DC.

Isolation transformer of suitable burden is provided for AC output.

Metering :

Digital Meter. Basic Range : 0 to 500V AC/DC. Accuracy: 2% of full range.

Timer Circuit :

Dual range digital time interval meter

Ranges : i) **0-9.999 Sec.**

ii) 0-99.99 Sec. in two switching range.

Selector for NO & NC contacts. Reset push button.

“Start” timer signal is potential free closing or opening of auxiliary contacts of the set contactors.

GENERAL ARRANGEMENT

The test kit will be one unit. Meters, terminals, indicators, regulator knobs, timer display etc. will be fitted on the horizontal panel of the set which can be approached by opening the top lid. An input chord of 2 meters length with 3 pin plug will be provided. Loading transformer, measuring CT & protection circuit will be housed within the same unit.

Operation manual, schematic circuit diagram, work test report, guarantee certificate will be supplied along with the set.

‘CIE’ in a continuing effort to offer excellent products at a fair value, reserves the right to change models, specifications and designs without notice.