



SECONDARY CURRENT INJECTION TEST SET

RNT-5A

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	230 Volts, single phase, 50Hz. AC.
OUTPUTS	1) Current Output: a) 0- 5 Amps. At 6/50 Volts. b) 0- 10 Amps. At 6/50 Volts. c) 0- 20 Amps. At 6/50 Volts. d) 0- 50 Amps. At 6Volts. e) 0-100 Amps. At 6 volts. f) 0-200 Amps. At 6Volts.
(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 DC Voltage Output	Continuously Variable 0-240V DC . Capacity-240VA.(max).
3) Time Measurement	0-9.999Secs. & 0-99.99Secs. in two ranges. Accuracy 1%
CURRENT CIRCUIT:	
Loading transformer:	Double winding loading transformer of suitable burden to provided corresponding to the current output specified before.
Measuring CT	Multi ratio wound primary current transformer
Ratio	5-10-20-50-100-200A/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 actuated.
Metering	Digital meter. Basic Range - 0 to 5A AC. Scaled in 0 to 100% for all selected range. Accuracy - 1.5% 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 for AC or DC 0-240VAC/DC . Isolation transformer of suitable burden is provided for AC/DC output.
Metering	Digital meter. Basic Range - 0 to 300V AC/DC. Accuracy - 1.5 % of full range.
Timer circuit	Dual range digital time interval meter
Ranges	i) 0-9.999 Sec. ii) 0-99.99Sec. 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 in 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 3pin 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, warranty certificate will be supplied along with the set.