

## Relay Test Set (Secondary Injection Test Set)

'SECO' make Relay Test Set, also known as Secondary Injection Test Set, are used for testing of different types of relays by simulating the fault conditions. Relays like Under voltage, Over voltage, Overload, Earth fault, Directional, etc. can be tested with this equipment. Relays are required to be isolated from live circuits before testing.

Utility of the equipment is enhanced by providing heavy duty castor wheels for easy transportation from one place to other.

Relay Test Set provides any or all of the AC Test Voltage, AC Test Current, DC Test Voltage, AC Auxiliary Voltage and DC Auxiliary Voltage. Standard version does not include Auxiliary AC and DC supply voltage outputs.

This unit can also be supplied along with Phase shifter unit if required by customers.

Construction: Single unit OR Two units depending on customer's requirement.



### Technical Specifications and Features:

<b>Input:</b>	Single phase, 230 V, 50 Hz AC supply.(Input suitable for other system voltages can be supplied against specific requirements)
<b>Standard Output:</b>	AC Test Voltage: Fixed or continuously variable up to 250 V, 1A as standard. However higher values of rated voltage, current and Rated burden ranging from 100 VA to 1000 VA can be provided depending on customer's requirement. AC Test Current: Selectable from 1A, 5A, 10A, 25A, 50A, 100A ranges and continuously

	<p>variable. Rated burden of 250 VA is provided as Standard. However, rated burden ranging from 100 VA to 1000 VA can be provided depending on customer's requirement.</p> <p>DC Test Voltage: Fixed or continuously variable up to 250 V, 1A as standard. However higher values of rated voltage, current and Rated burden ranging from 100 VA to 1000 VA can be provided depending on customer's requirement.</p> <p>A tripping circuit is provided which actuates as soon as the Relay Under Test trips. This tripping action instantaneously trips the Test Outputs. However, the Auxiliary Supply Outputs are not associated with tripping circuit and hence continue to supply.</p>
<b>Duty cycle:</b>	30 minutes ON – 30 Minutes OFF.
<b>Optional additional outputs:</b>	<p>DC Auxiliary Supply Voltage: Fixed or continuously variables up to 250 V, 1A. (Not included in Standard version). However higher values of rated voltage, current and Rated burden ranging from 100 VA to 1000 VA can be provided depending on customer's requirement.</p> <p>AC Auxiliary Supply Voltage: Fixed or continuously variables up to 250 V, 1A. (Not included in Standard version). However higher values of rated voltage, current and Rated burden ranging from 100 VA to 1000 VA can be provided depending on customer's requirement.</p> <p>Values of voltages, currents and VA Burden other than specified above can be supplied against specific requirement.</p>
<b>Measurements:</b>	All Outputs are provided with Digital Panel meters for accurate measurement of various parameters. Accuracy of Digital Voltmeters and Ammeters: $\pm 1\%$ or better. A Digital Time Interval Meter is also provided for counting of Trip Time (4 digits, Auto ranging). Accuracy of Digital Time Interval meter: Better than $0.1\% \pm 2$ digits
<b>Controls:</b>	<p>Switches, Push Buttons and Indicating Lamps are provided for all appropriate circuits to ensure greatest convenience to the user.</p> <p>Separate EARTH terminal and FUSE protection are provided to ensure safety.</p> <p>Over current protection for current ranges is provided as an OPTIONAL feature.</p> <p>Zero Interlock and Open Earth Interlock are provided as OPTIONAL features.</p> <p>Timer for Maximum operation time is provided as an OPTIONAL feature.</p> <p>Special lucrative enclosure with Castor wheels can be supplied as an option.</p> <p>Phase Shifter Unit can be supplied along with as an OPTIONAL feature.</p>
<b>Environment:</b>	<p>Reference Temperature: 23 Deg. C <math>\pm</math> 2 Deg. C</p> <p>Operating Temperature: 0 to + 50 Deg. C</p> <p>Operating Humidity: &lt; 80 % RH at 40 Deg. C Non condensing</p> <p>(De-rating of specifications is applicable in case environmental parameters exceed Reference range).</p>