



**Product Code . JL-PET-1418**

## SCR Converters and Reactive Loads

### Description

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#### SCR Converters and Reactive Loads

##### Object:-

- Study of SCRs triggering in half controlled bridge under reactive loads-limitations of simple UJT triggering circuits.
- Study of SCR triggering in half controlled bridge under reactive loads using auxiliary SCR triggering circuit with extended pulse technique
- Study of half controlled bridge and action of freewheeling diode
- Study of fully controlled full wave 4-SCR bridge operation under converter mode

##### Features:

##### The board consists of following built-in parts:

- UJT relaxation oscillator and triggering pulse generator with resistance ramp control
- Three numbers of pulse transformers each 1:1:1 type
- Mains transformer having outputs 0-12V at 100 mA, 0-12V at 100 mA & 0-32V at 500 mA
- Two SCRs connected in pulse amplifier and extender configuration and used as auxiliary SCR for triggering main SCRs under reactive load
- Two SCRs and two diodes connected in half-controlled bridge configuration
- Four SCRs connected in full wave bridge configuration
- Resistive, Inductive and Capacitive load which can be used individually or in combinations
- Mains ON/OFF switch, Fuse and Jewel light
- The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C. Mains
- Adequate no. of patch cords stackable 4 mm spring loaded plug length  $\frac{1}{2}$  metres
- Good Quality, reliable terminal/sockets are provided at appropriate places on panel for

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connections/observation of waveforms

- Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References

**Weight:**

- 3 Kg. (Approx.)

**Dimension:**

- W 340 x H 110 x D 210

**Other Apparatus Required:**

- Digital Multimeter 3¾ digit - Order Code 16901
- Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)

**Other Information:**

**Pay Mode Terms:**

- T/T (Bank Transfer)

**Port of Dispatch:**

- India

**Delivery Time:**

- 4 weeks

**Packaging Details:**

- Corrugated Box

**SCR Converters and Reactive Loads Manufacturer India, SCR Converters and Reactive Loads Exporters, Electronics SCR Converters and Reactive Loads, Buy SCR Converters and Reactive Loads Online India, Educational Equipments for School Lab, Laboratory Equipment Suppliers, Didactic, Didactic SCR Converters and Reactive Loads, Power Electronics Trainers Equipment Exporters, Scientific Instrument and Equipment Manufacturer.**

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