



Experimental Training Board has been designed specifically to study the Silicon Controlled Rectifier phase firing and D.C. control characteristics. It is a training aid for advance studies in control circuits.

Practical experience on this board carries great educative value for Science and Engineering Students.

Object:

1. To study the D.C. gate control characteristics (firing characteristics) of a SCR.
2. To study and plot the anode current characteristics of a SCR.
3. To measure the holding current of a SCR.
4. To study the plot the phase firing characteristics of a SCR.

Features:

The Board consists of the following built-in parts:

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 1. 0 to 50V DC at 50mA, continuously variable Power Supply for Anode.
 2. 0 to 3V DC at 50mA, continuously variable Power Supply for Gate.
 3. 0-10V AC at 50Hz, variable Power Supply for Anode.
 4. Digital Voltmeter DC 3½ Digit having Dual range of 20V/200V.
 5. Digital Current meter DC 3½ Digit having range of 0-200mA.
 6. Silicon Controlled Rectifier.
 7. Fixed limiting resistances.
 8. Adequate no. of other electronic components.
 9. Mains ON/OFF switch, Fuse and Jewel light.
- The unit is operative on 230V ±10% at 50Hz A.C. Mains.
- Adequate no. of patch cords 4mm length 50cm.
- Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
- Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Other Apparatus Required:

- Vacuum Tube Voltmeter
- Cathode Ray Oscilloscope 20MHz

Note: Specifications are subject to change.

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