



Power Electronic Training Board has been designed specifically for the study of SCR Triggering using IC TCA-785. This Training Board gives a better understanding on the operation of Signal Conditioner and Pulse Generator IC TCA-785.

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

**Object:**

To perform the following experiments :

01. SCR triggering with controlled gate pulses.
02. Change of firing angle in response to the change in reference voltage
03. Functioning of Signal Conditioner and Pulse Generator IC TCA-785.

**Features:**

The board consists of the following built in parts:

01. + 15V, +10V D.C. at 50mA, IC Regulated Power Supply internally connected.
  02. + 5V D.C. at 50mA, IC Regulated Power Supply Isolated.
  03. Synchronising Signal.
  04. 24V at 300mA A.C. supply.
  05. Signal Conditioner and Pulse Generator IC TCA-785.
  06. Op to Coupler.
  07. SCR 100V/1Amp.
  08. Transistor BC-107.
  09. Adequate no. of other Electronic Components.
  10. 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 ½ metre.
  - \* 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:**

- \* Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)
- \* Bulb 24V/7W

Note: Specifications are subject to change.

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