



OMEGA TYPE PET-411 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.
- 11 The unit is operative on 230V $\pm 10\%$ at 50Hz A.C. Mains.
- 12 Adequate no. of patch cords stackable 4 mm spring loaded plug length 50cm.
- 13 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
- 14 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 15 Weight : 4 Kg. (Approx.)
- 16 Dimension : W340 x H 125 x D 210.

OTHER APPARATUS REQUIRED:

- 01 Dual trace CRO 20MHz OMEGA TYPE CRO-20
- 02 Bulb 24V/7W

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS