



OMEGA TYPE PET-416 Power Electronic Training Board has been designed specifically to study the use of SCR and TRIAC in D.C. and A.C. lamp flasher respectively. The flasher is useful for students of understand the application of SCRs in D.C. flasher, triggered by UJT relaxation oscillator. The repetition rate of the flasher can be varied by varying the frequency of the relaxation oscillator. This Training Board also makes use of the same SCR D.C. flasher for making the TRIAC ON and OFF in the A.C. power circuit which operates a normal 230V incandescent lamp used as load.

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

OBJECT

To perform the following experiments :

- 01 Symmetrical D.C. flasher.
- 02 High power A.C. flasher.

FEATURES

The board consists of the following built-in parts:

- 01 12V D.C. at 100mA, IC Regulated Power Supply.
- 02 Two SCRs.
- 03 TRIAC 4 Amp./400PIV
- 04 230V/40 Watt lamp for load.
- 05 UJT 2N 2646 in relaxation oscillator mode.

- 06 Two LEDs to demonstrate Twin-lamp D.C. flasher.
- 07 Potentiometer for frequency variation.
- 08 Two numbers of toggle switches, one for D.C. flasher, and one for A.C. flasher.
- 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 : 3.700 Kg. (Approx.)
- 16 Dimension : W 415 x H 165 x D 315

OTHER APPARATUS REQUIRED:

- 01 Digital Multimeter $3\frac{3}{4}$ digit OMEGA TYPE DMM-201
- 02 Dual trace CRO 20MHz OMEGA TYPE CRO-20

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

OMEGA ELECTRONICS