



OMEGA TYPE PET-421 Power Electronic Training Board has been designed specifically for to study A.C. Regulators using triac, antiparallel thyristor and triac & diac.

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

OBJECT

- 01 A.C. Regulator using a Triac.
- 02 A.C. Regulator using Thyristor connected in antiparallel.
- 03 A.C. Regulator using a triac & a diac (with R.C. triggering circuit).

FEATURES

The board consists of the following built-in parts :

- 01 230V A.C. Isolated Transformer, Power 50 Watt.
- 02 9V D.C. at 100mA Zener Regulated Power Supply.
- 03 Two silicon controlled rectifiers (SCR's).
- 04 Uni Junction Transistor (UJT).
- 05 TRIAC.
- 06 DIAC.

- 07 Pulse Transformer 1:1:1.
- 08 Two potentiometers one for controlling UJT firing angle & other for varying load.
- 09 Bulb 40W, 230V A.C.
- 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 : 6 Kg. (Approx.)
- 16 Dimension : W 415 x H 165 x D 315.

OTHER APPARATUS REQUIRED

- 01 Dual trace CRO 20MHz OMEGA TYPE CRO-20 with isolation transformer for unearthing.

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

OMEGA ELECTRONICS