



**OMEGA TYPE PET-431** Power Electronic Training Board has been designed specifically for the study of the step down current commutated thyristorised chopper.

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

#### OBJECT

01 To study the step down current commutated thyristorised chopper.

#### FEATURES

The board consists of the following built-in parts:

- 01  $\pm 12V$  D.C. at 100mA IC regulated power supply internally connected.
- 02 5V D.C. at 100mA IC regulated power supply internally connected.
- 03 Bridge Rectifier for making D.C. voltage.
- 04 UJT as relaxation oscillator.
- 05 Op-Amp. IC.
- 06 Timer IC.
- 07 Hex Inverter Gate IC.
- 08 Two SCR's.
- 09 Two pulse transformer 1:1.
- 10 Two NPN transformer.

- 11 Inductors.
- 12 Two potentiometer one for frequency control and other reference voltage ADJ.
- 13 Adequate no. of other Electronic Components.
- 14 Mains ON/OFF switch, Fuse and Jewel light.
- 15 The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C. Mains.
- 16 Adequate no. of patch cords stackable 4 mm spring loaded plug length 50cm.
- 17 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
- 18 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 19 Weight : 5 Kg. (Approx.)
- 20 Dimension : W 340 x H 125 x D 210

#### OTHER APPARATUS REQUIRED :

- 01 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**