



**OMEGA TYPE PET-429** Power Electronic Training Board has been designed specifically for to study the forced commutated circuits. Practical experience on this board carries great educative value for Science and Engineering Students.

#### OBJECT

To study the forced commutated circuits.

- 01 Class - A or self commutation by resonating the load.
- 02 Class - B or self commutation by an LC circuit.
- 03 Class - C or commutation through charged capacitor switched by another load carrying. SCR
- 04 Class - D or commutation through charged capacitor switched by an auxillary SCR.
- 05 Class - E or an External pulse source commutation.

#### FEATURES

The board consists of the following built-in parts :

- 01 30V D.C. at 150mA Fixed Power Supply.
- 02 5V D.C. at 50mA Fixed Power Supply.
- 03 5Hz Square wave Oscillator.
- 04 UJT Triggering Circuit for SCR's.
- 05 Two PUSH-TO-ON switch.
- 06 NPN Transistor.
- 07 Inductor.
- 08 Diode & LED.

- 09 Capacitor Bank.
- 10 Adequate no. of other Electronic Components.
- 11 Mains ON/OFF switch, Fuse and Jewel light.
- 12 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.
- 13 Adequate no. of patch cords stackable 4 mm spring loaded plug length 50cm.
- 14 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
- 15 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 16 Weight : 2.500 Kg. (Approx.)
- 17 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