



**OMEGA TYPE ETB-177** Experimental Training Board has been designed specifically for the study of Synchronized Pulse Generator. This Training Board gives a better understanding on the generation of Sync. pulses to trigger SCR in synchronism with the supply voltage using phase control principle. Practical experience on this board carries great educative value for Science and Engineering Students.

#### OBJECT

01 To Study generation of synchronized pulses for triggering of Thyristor at the desired position.

#### FEATURES

The board consists of the following built-in parts:

- 01  $\pm 15V$  D.C. at 100mA, IC regulated power supply internally connected.
- 02  $\pm 10V$  D.C. at 100mA, IC regulated power supply internally connected.
- 03  $+ 5V$  D.C. at 100mA, IC regulated power supply internally connected.
- 04 8V p-p fixed A.C. at 50 Hz.
- 05 Six OP-AMP ICs 741.
- 06 Two Monostable Multivibrator ICs 4047.
- 07 Timer IC 555.
- 08 AND Gate IC 4081.
- 09 Two JFETs.
- 10 Pulse Transformer.
- 11 Silicon Controlled Rectifier.
- 12 Adequate no. of Electronic Components.
- 13 Mains ON/OFF switch, Fuse and Jewel light.
- 14 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.
- 15 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections & observation of waveforms.
- 16 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 17 Weight : 2 Kg. (Approx.)
- 18 Dimension : W 340 x H 125 x D 210

#### LIST OF ACCESSORIES:

- 01 Patch cords 4 mm length 50cm RED.....02
- 02 Patch cords 4 mm length 50cm BLACK.....02

#### OTHER APPARATUS REQUIRED:

- 01 Dual Trace CRO 20MHz OMEGA TYPE CRO-20
- 02 Frequency Counter 6 digit OMEGA TYPE DFC-20 M

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

**OMEGA ELECTRONICS**