



**OMEGA TYPE ETB-167** Experimental Training Board has been designed specifically for the study of Zero Crossing Detector using OP-AMP ICs 741. This Training Board is designed to have a better understanding of the generation of output pulses whenever input waveform crosses zero reference.

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

#### OBJECT

01 To generate synchronized pulses whenever A.C. Mains crosses zero line using Comparator, RC Differentiating Circuit etc.

#### FEATURES

The board consists of the following built in parts:

- 01 10V p-p fixed A.C. at 50 Hz.
- 02  $\pm 15V$  D.C. at 50mA, IC regulated power supply internally connected.
- 03 Two OP-AMP ICs 741.
- 04 Adequate no. of Electronic Components.

- 05 Mains ON/OFF switch, Fuse and Jewel light.
- 06 The unit is operative on  $230V \pm 10\%$  at 50Hz A.C. Mains.
- 07 Adequate no. of patch cords stackable from rear both ends 4 mm spring loaded plug length 50cm.
- 08 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections & observation of waveforms.
- 09 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

- 10 Weight : 3 Kg. (Approx.)
- 11 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