



**OMEGA TYPE ETB-163** Experimental Training Board has been specifically designed for measurement of relative phase difference by superposition. The board is absolutely self contained and requires no other apparatus.

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

#### OBJECT

Study of phase measurement by superposition :

- 01 To study the relative phase difference between voltage across resistors.
- 02 To measure the phase difference between  $V_R$  and  $V_C$  in a simple RC circuit.
- 03 To study more about phase relationship in an RC network.
- 04 To study the phase relationship in an LR circuit.
- 05 To study the phase of  $V_R$  in an LCR circuit.
- 06 To study the phase relationships amongst various voltages in an LCR circuit.

#### FEATURES

The board consists of the following built-in parts:

- 01 Mains transformer having secondary tapings of 10V, 20V, 30V, 40V, 50V, 100 Volts at 100mA.
- 02 One Digital Panel Meter having dual range of 20V and 200V.
- 03 Four Inductors and adequate no. of other electronic components.
- 04 Mains ON/OFF switch, Fuse and Jewel light.
- 05 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.
- 06 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
- 07 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 08 Weight : 6.100 Kg. (Approx.)
- 09 Dimension : W 415 x H 165 x D 315

#### LIST OF ACCESSORIES:

- 01 Patch cords 4mm length 50cm Red.....04.
- 02 Patch cords 4mm length 50cm Black.....04.

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

## OMEGA ELECTRONICS