



OMEGA TYPE ETB-144 Experimental Training Board has been specifically designed for the study of RC Circuits with an Ultra Low Frequency AC Source. Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT

- 01 To make a preliminary study of voltage and phase relationship in a simple RC circuit.
- 02 To study the voltages in a pure resistive, capacitive and a mixed circuit.
- 03 To determine the phase difference between V_R and V_C in a RC circuit.
- 04 To study the phase difference between V_R and V_C by measuring the peak voltage values.
- 05 To study the phase relationship of currents in different parts of a RC circuit.
- 06 To study the behaviour of a RC circuit at different frequencies.

FEATURES

The board consists of the following built-in parts :

- 01 Two 0-12V D.C. at 50mA, continuously variable regulated Power Supplies.
- 02 Three Centre zero D.C. meters, 65mm rectangular dial to read 0.1mA, 0.5 mA and 2.5 mA or 1V,5V and 10V with current or voltage mode selected with the help of switches.

- 03 Bridge rectifier.
- 04 Two SPST switches.
- 05 Adequate no. of other electronic components.
- 06 Mains ON/OFF switch, Fuse and Jewel light.
- 07 The unit is operative on 230VAC $\pm 10\%$ at 50Hz
- 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 : 4.500 Kg. (Approx.)
- 11 Dimension : W 415 x H165 x D 315.

LIST OF ACCESSORIES:

- 01 Patch cords 4mm length 50cm Red.....10.
- 02 Patch cords 4mm length 50cm Black.....03.

OTHER APPARATUS REQUIRED:

- 01 Ultra Low Frequency Oscillator
OMEGATYPE LF-306

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

OMEGA ELECTRONICS