



Experimental Training Board has been designed specifically for the study of L-R circuit with a source of alternating E.M.F. 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:

To study L-R circuit with a source of alternating E.M.F. and thus to determine :

01. The power factor, $\cos \phi$ of the inductive load.
02. The equivalent power loss resistance of the inductor.
03. The inductance of the inductor.
04. The phase difference between applied voltage and that across resistance.

Features:

The board consists of following built-in parts :

01. Mains transformer having secondary tappings at 20V, 30V, 40V, 50V & 60V at 500mA.
 02. Two A.C. Voltmeters, 65mm round dial to read 0-50V.
 03. A.C. Voltmeter, 65mm round dial to read 0-75V.
 04. A.C. Milliammeter, 65mm round dial to read 0-500mA.
 05. One inductor of which inductance & resistance has to be measured.
 06. One high wattage resistance.
 07. Mains ON/OFF switch, Fuse and Jewel light.
- * The unit is operative on $230V \pm 10\%$ at 50Hz A.C. Mains.
 - * Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length $\frac{1}{2}$ metre.
 - * Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/observation of waveforms.
 - * Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
 - * Weight : 3 Kg. (Approx.)
 - * Dimension : W 340 x H 110 x D 210

Note: Specifications are subject to change.

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