



Experimental Training Board has been specifically designed to study Charging and Discharging of a Condenser.

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

Object:

01. To study the charging of a condenser, to plot a graph of voltage (V) across it against time (t) and to determine the time constant from this graph.
02. To plot a graph of charging current (i) against time (t) and to determine the time constant from this graph.
03. To study the discharging of a condenser, to plot a graph of voltage (V) across the condenser against time (t) and to determine the time constant from this graph.
04. To plot a graph of discharge current (i) against time (t) and to determine the time constant from this graph.

Features:

The board consists of the following built-in parts :

01. 0-20V D.C. at 25 mA, continuously variable regulated Power Supply.
02. Digital Voltmeter DC 3½ Digit having Dual range of 2V / 20V.
03. Digital Current meter DC 3½ Digit range of 20mA
04. Three SPDT switches.
05. Four electrolytic condensers.
06. Adequate no. of other electronic components.
07. Mains ON/OFF switch, Fuse and Jewel light.
- * The unit is operative on 230V ±10% at 50Hz A.C. Mains.
- * Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length ½ 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.

Other Apparatus Required:

- * Digital stop Clock

Note: Specifications are subject to change.

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