



Experimental Training Board has been designed specifically to study the Charge and Discharge of a condenser through a resistance using neon bulb.

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

**Object:**

- 01. To study the Charge and Discharge of a condenser through a resistance using neon bulb.
- 02. To study the dependence of the period on the source voltage and deducing striking voltage and extinction voltage of the neon bulb.

**Features:**

The board consists of the following built-in parts :

- 01. 0-300V D.C. at 20mA, I.C. regulated continuously variable and short circuit protected Power Supply with coarse and fine voltage control.
- 02. Digital Panel Meter (for measurement of DC voltage).

**Specifications:**

- Voltage Range : 0-1000 volt.
- Resolution : 1V.
- Accuracy :  $\pm 0.2\% \pm 2$  digit.
- Input Impedance : 10 M ohms.
- Display : 3½ digit, 7 segment LED (12.5mm height)
- Auto : Polarity indication.
- Over Load Indication : Sign of 1 on left and blanking of other digits.
- 03. Adequate no. of Resistances and Capacitances.
- 04. Neon bulb mounted on panel.
- 05. Mains ON/OFF switch and Fuse.
- \* 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 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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