



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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