

Product Name :
Charging and Discharging of a Condenser

Product Code :
NLAB-ELECTRONICSAB420027



Description :

Charging and Discharging of a Condenser

Technical Specification :

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 $\pm 10\%$ at 50Hz A.C. Mains.

Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length ½ metre.

Other Apparatus Required:

Digital stop Clock

Naugralabequipments

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