



Experimental Training Board has been designed specifically for the study of RC Circuit with varying EMF.

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

Object:

To study RC Circuit with varying EMF.

01. To study the charging of a capacitor with pulses of width greater than the time constant of the circuit.
02. To study the charging with rectangular pulses of width much less than the time constant of the circuit.
03. To study the charging with short rectangular pulses of equal and unequal widths ($t \ll RC$).
04. To repeat experiment 1, 2 & 3 with pulses of different shapes.
05. To study an RC Circuit with a diode as an integrating system.
06. To study an integrating RC Circuit with alternating input.
07. To study the integrating system with a sinusoidal input.

Features:

The board consists of the following built-in parts:

01. Mains transformer having secondary tapings at 20V and 40V A.C. at 100mA.
 02. Digital Panel Meter having D.C. voltage ranges 0-20V and 0-200 Volts.
 03. A toroidal rheostat 500 ohms, 10W.
 04. Diode, switch and adequate no. of other electronic components.
 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 4mm spring loaded plug length $\frac{1}{2}$ meter.
 - * Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/observation of waveforms.

Other Apparatus Required:

- * Variable Power Supply

Note: Specifications are subject to change.

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