

DIELECTRIC CONSTANT OF A CAPACITOR

Model: CDC-201/507

Experiment(s):

1. Determination of dielectric constant of a capacitor by the method of charging and discharging

(For more details, procedure & manual visit: www.kamaljeeth.net)

Reference : Detailed textbook of Engineering physics practicals by S P Basavaraju, Page -105

Experiment setup consists:

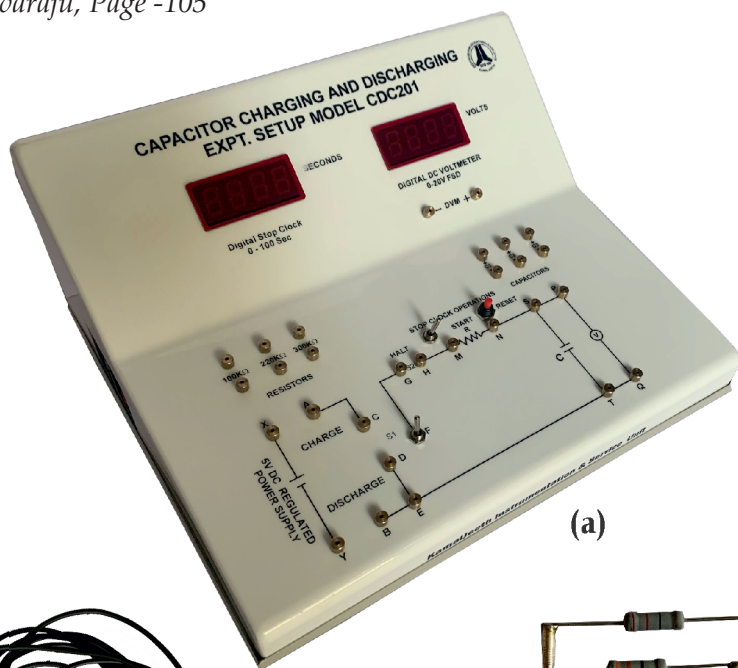
- a) Capacitor charging & discharging kit
- b) Set of patch cords
- c) Set of external components (Optional)

Specifications:

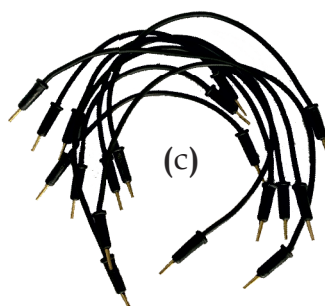
- a) Capacitor charging & discharging kit**
 Power supply: 0-5 V (DC) variable & regulated
 Volt meter: Digital DC 3½ digit Range: 20 V
 Resolution: 0.01 V
 Timer: Digital DC 3½ digit Range: 999 sec
 Resolution: 1 sec
 Capacitors: selectable (3 values)
 Dimensions: Provided
 Resistors: selectable (3 values)
 Rated Input: 220 V/50 Hz or 110 V/60 Hz
 Power consumption: <50 W
 Cabinet: Acrylic body, aluminium bottom

- b) External components**
 Set of Resistors and Capacitors mountable externally

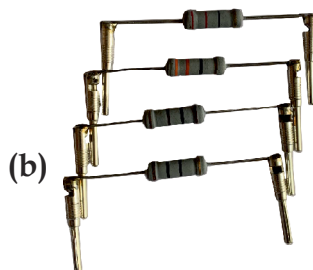
- c) Patch cords**
 Set of standard 2 mm patch cords of different lengths with spare cords



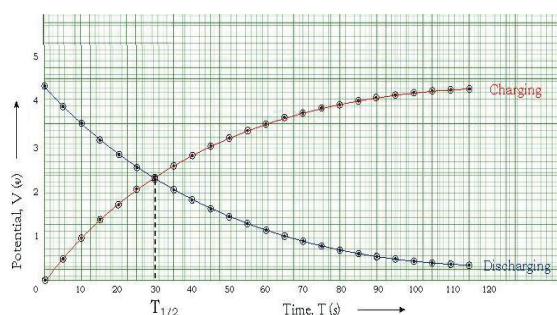
(a)



(c)



(b)



Voltage v/s time for Charging & discharging a capacitor



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3 years manufacturing warranty