

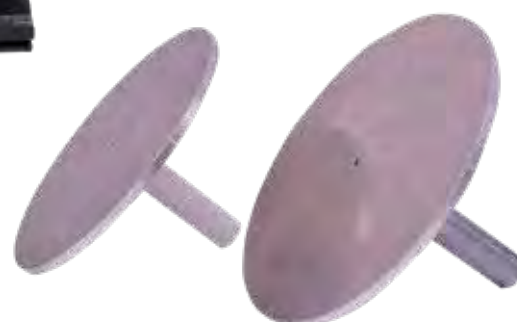
ELECTRIC FIELD AND DIELECTRIC CONSTANT IN PLATE CAPACITORS

REEE17-V



Description

Allows investigation of parallel plate capacitance, exploring the inverse proportionality against spacing, and the effect of different dielectric materials.



EE-0146-01 Plate (with conductive rod)

EE-0146-02 Plate (with isolated rod)

Voltage is applied to the isolated plate and charge is measured on it. Capacitance of metal plate is calculated.

Dielectric Materials

ST-0222-00 Plastic Plate

ST-0222-01 Paperboard Plate

ST-0222-02 Glass Plate



After the capacitance is calculated; by placing dielectric materials between the plates, the dielectric constant of the material is calculated.

Order Information

Item Code	Item Name
EE-0146-01	Metal Plate (with Conductive Rod)
EE-0146-02	Metal Plate (with Isolated Rod)
ST-0175-00	Bench (30 cm)
EE-0147-00	Power Supply (450 V DC)
EE-0154-00	Charge Measuring Probe
EE-0021-00	Charging Probe
ST-0222-00	Plastic Plate
ST-0222-01	Paperboard Plate
ST-0222-02	Glass Plate
ST-0233-01	Plate Holder
ST-0233-02	Plate Holder (with Micrometer Support)
ME-0039-00	Distance Adjusting Apparatus
EE-0120-05	Connection Cable (50 cm)
CRG-BTA	Vernier Charge Sensor (required, not included)
LABQ2	LabQuest® 2 (required, not included)

Required Units

Charge Sensor
CRG-BTA



LabQuest® 2
LABQ2

