
CAPACITANCE AND PERMITTIVITY KIT[®]

OBJECTIVE

TO STUDY

- (1) *Series and Parallel combination of capacitances.*
- (2) *Factors that determine the capacitance of a parallel plate Capacitor (area of overlap, distance between the plates and the medium).*



- ★ Completely self – contained : no other measuring instruments are needed.
- ★ No calibration required.
- ★ High sensitivity : change of the order of 0.1 nf can easily be detected.
- ★ Integrated circuit electronics.
- ★ Linearity better than 1% f.s.d.

In operation it produces an output current proportional to capacitance.

DESCRIPTION

The Kit consists of reed relay switch with it's a.c. supply, integrated circuit current amplifier and 0-100 micrometer housed in a cabinet. In addition, a pair of capacitor plates 0.25m x 0.25m x 4 mm, a Perspex sheet, two capacitors (500 pf each), and set of perspex/ polythene spacers are provided with the kit.