



55845 Experimental Set Up has been designed specifically to determine mutual inductance between two coils by Carey Foster's method.

The set up is absolutely self contained and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

01 To determine mutual inductance between two coils by Carey Foster's Method.

FEATURES

The Set up consists of the following :

01 Ballistic Galvanometer :

It consists of moving coil having a fairly large periodic time and large moment of inertia. The phosphor bronze suspension strip prevents shifting of zero. Its deflection is closely proportional to current. The resistance of coil is about 500Ω and gives sensitivity per microcoulomb at one metre distance of about 600 mm.

02 Lamp and Scale :

Lamp is of cast aluminum with heavy iron adjustable stand. It is fitted with 8 volt electric bulb through built in transformer and works on 220V A.C. Translucent perspex scale graduated in 25-0- 25 cm is used.

03 Cell eliminator : (Leclanche Cell 1V5). This is an Electronic Leclanche Cell works on 230V AC and gives regulated output of 1V5 DC.

04 Decade Resistance Box, Three dials in steps of 1, 10 & 100ohm, total 1,110 ohm.

05 Decade Resistance Box, Three dials in steps of 100 ohm,1K &10K total 1,11,000 ohm.

06 A fixed mutual inductor (50 mH)

07 Fixed Capacitors (1mF).

08 One Way Plug key : 2 Nos.

09 Tapping key : 1 Nos.

10 Adequate no. of connecting wires, 100cm long.

11 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

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