

TO DETERMINE RESISTANCE OF A GALVANOMETER BY HALF DEFLECTION METHOD AND STUDY OF VARIATION OF LOGARITHMIC DECREMENT WITH SERIES RESISTANCE USING BALLISTIC GALVANOMETER OMEGA TYPE ES-419



OMEGA TYPE ES-419 Experimental Set Up has been designed specifically to determine resistance of a galvanometer by half deflection method and study of variation of logarithmic decrement with series resistance using ballistic galvanometer.

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 Determine resistance of galvanometer by half deflection method .

02 Study the logarithmic decrement for a ballistic Galvanometer

FEATURES

The Experiment Set up consists of the following :

1. DC Power Supply, 0-2V at 100mA continuously variable with switch
2. Two Fixed capacitor with Selector Switch
3. Charge Discharge Switch.
4. Tapping Switch For Ballistic Galvanometer
5. Galvanometer 65mm rectangular dial heaving 30-0-30 scale.

6. 10 Step Each two Band Switch Having 1E & 10E low resistance.

7. 10 Step Each two Band Switch Having 100E & 1K High resistance.

8. Mains ON/OFF switch, Fuse and Jewel light.

9. The unit is operative on 230V \pm 10% at 50 Hz. AC Mains.

10 Ballistic Galvanometer OMEGA TYPE BG-186. 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 500W and gives sensitivity per micro-coulomb at one meter distance of about 600 mm.

11 Lamp and Scale OMEGA TYPE LS-187. 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 230V AC Translucent perspex scale graduated in 25-0-25 cm is used.

12 Adequate no. of Patch Cords

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

14 Weight : 9 Kg. (Approx.)

15 Dimension : W 340 x H 125 x D 210

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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