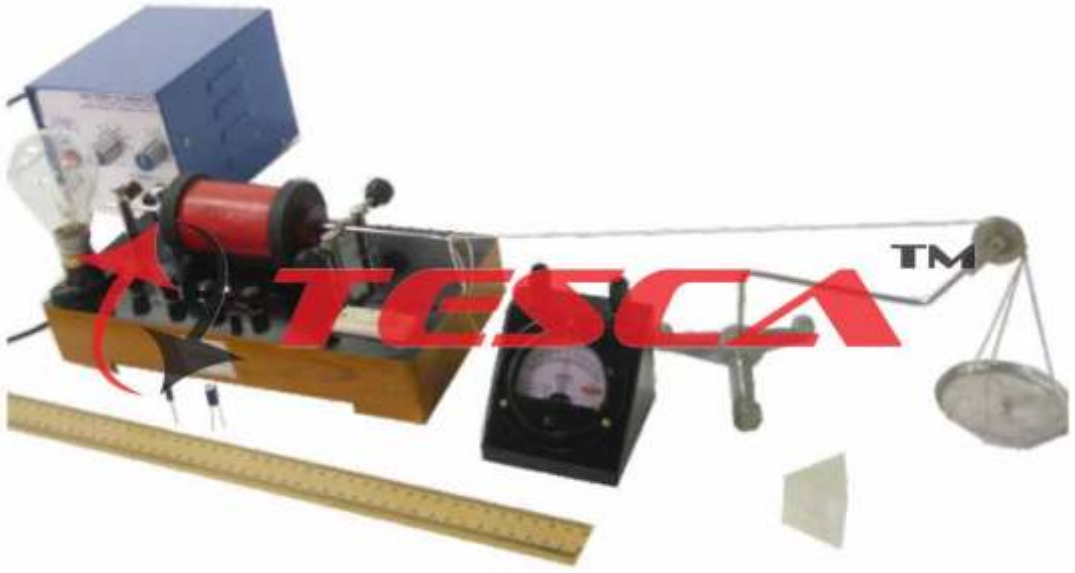
Order Code - 55778
Frequency of Ac Supply and Capacitance of A Capacitor By Using Electrical Vibrator



55778 Experimental Set-Up has been designed specifically to perform experiments by using Electrical Vibrator. (1) To determine the frequency of AC main by Melde's experiment. (2) To find the capacitance of a capacitor given that the frequency of AC supply is 50 cycle/sec. The set-up consists of Electrical Vibrator, Frictionless pulley, Spring of uniform thickness, Light weight pan, Metre Scale, Milliammeter, Bulb, Battery Eliminator etc.
Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

01 To find the frequency of AC supply using an Electrical Vibrator by Melde's experiments using.
  1.1 Transverse arrangement.
  1.2 Longitudinal arrangement.
02 To find the capacitance of the capacitor using an Electrical Vibrator given that the frequency of AC supply is 50 cycle/sec.

FEATURES

The complete Experimental Set-up consists of the followings :

01 Electrical vibrator : It consists of a solenoid through which passes a thin steel rod which is clamped at one end. The rod is ed at the free end and a hole is drilled in it so that a string can be tied to the rod through this hole. The solenoid can be connected to the AC mains through a suitable lamp resistance. Apermanent horse shoe magnet is mounted on the base board and the steel rod passes between the poles. Three pair of terminals are provided on the base board of vibrator. Across the terminals, marked GALVO, a Milliammeter, across those marked BATT, a Battery Eliminator and across those marked COND, a Capacitor is connected.
02 Stand with pulley
03 Light weight pan
04 Aspring of uniform thickness
05 Half metre scale
06 Bulb (25W)
07 Milliammeter : (Range 0 TO 250mA)
08 Battery Eliminator. (Range 1.5 to 12V D.C. at 500mA.)
09 Capacitors
10 Connecting wires
11 Weight : 3.9 Kg. (Approx.)
12 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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