



OMEGA TYPE ES-278 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, Light weight pan, Meter Scale, load resistance, Milliammeter, power supply 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:

- 1.1 **ELECTRICAL VIBRATOR** : It consists of a solenoid through which passes a thin steel rod which is clamped at one end. The rod is slightly flattened 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 is connected to the AC mains through suitable load resistance. A permanent horse shoe magnet is mounted on the base board and the steel rod passes between the poles.
- 1.2 **DIGITAL PANEL METER** : Digital Ammeter DC 3½ Digit range of 200mA
- 1.3 **POWER SUPPLY** : 6 Volt - 300mA.
- 1.4 **CAPACITORS** : 100µF/16V, 330µF/16V, 470µF/16V.
- 1.5 **ELECTRICAL VIBRATOR WITH ON OFF SWITCH**
- 1.6 **OPERATING ON 230 V ± 10%** :
- 1.7 **WEIGHTS** : 2 Kg.
- 1.8 **DIMENSION** : W340 x H125 x D 210mm
- 02 **STAND WITH PULLEY** : 1 Nos.
- 03 **LIGHT WEIGHT PAN** : 1 Nos.
- 04 **SCALE 30cm** : 1 Nos.
- 05 **CONNECTING WIRES** : 5 Nos.

OTHER APPARATUS REQUIRED

- 01 Physical Balance with Weight Box

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

OMEGA ELECTRONICS

Works:
28E & F, Malviya Industrial Area,
Jaipur-302 017 (INDIA)
Phone: 0141-2751559

E-mail : info@omegaelectronics.net
: omegajaipur62@gmail.com

Marketing Division:
B-28, Fateh Singh Scheme, Opp. Rajputana
Palace Sheraton, Jaipur-302006 (INDIA)
Phone : 091-141-2375647, 2379223

www.omegaelectronics.net