

Experiment(s):

1. Determination of frequency of the AC mains
2. Verification of the law of vibration of stretched string

(For more details, procedure & manual visit: www.kamaljeeth.net)

Reference : Lab Experiments Journal vol-12, No.2, Page-136
Lab Experiments Journal vol-14, No.4, Page-288



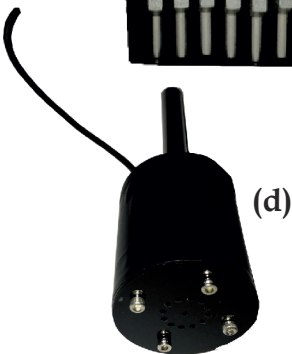
(a)



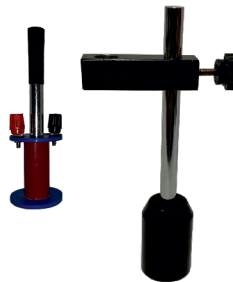
(c)



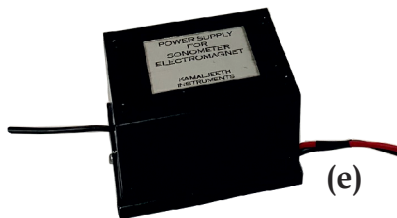
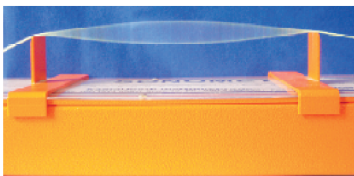
(b)



(d)



Large Amplitude



(e)

Experiment setup consists:

- a) Sonometer
- b) Weight set
- c) Tuning fork
- d) Digital tuning fork
- e) Electromagnet, power supply and stand

Specifications:**a) Sonometer**

Length: 500 mm
Material: Steel
Knife Edge: Steel

b) Weight set

Slotted weight: 5 x 50 g

c) Tuning fork

Calibrated aluminium tuning fork with rubber pad, set of 8

d) Digital tuning fork

Alternate to manual tuning fork, adjustable frequency and fixed amplitude
Audible up to 85 dB

e) Electromagnet, power supply and stand

Electromagnet: Copper coil wound on iron solenoid, Resistance 4 Ω
Power Supply: 6 V/3 A with 4mm Banana pins
Rated Input: 220 V/50 Hz or 110 V/60 Hz
Mains cord: 2 pin
Stand: Height adjustable