



55779 Experimental Set-Up has been designed specifically for experiments with Sonometer.

- (1) To determine the frequency of a tuning fork.
- (2) To verify the laws of vibrating strings.
- (3) To determine the frequency of AC mains using horse shoe magnet and non magnetic wire.
- (4) To determine the frequency of AC mains using electromagnet & magnetic wire. The set up consists of Tuning forks, Sonometer with Steel and Brass wires, Electromagnet, Horse shoe magnet, ½ kg weights, Retord stand with clamp, Step down transformer, Screw gauge etc.

Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

- 01 To determine the frequency of a tuning fork with Sonometer.
- 02 To verify the laws of vibrating strings with Sonometer.
- 03 To determine the frequency of AC mains with Sonometer using horse shoe magnet and non magnetic wire (brass wire).
- 04 To determine the frequency of AC mains with Sonometer using an electromagnet and magnetic wire (steel wire).

FEATURES

The complete Experimental Set-up consists of the followings :

- 01 Sonometer :
One metre long, made of soft wood and well polished. Fitted with two metre scale graduated in centimeters. It is provided with wire of two different material steel and brass, sliding knife edges and hook etc.
- 02 Tuning fork : Set of eight, small size, made of steel, nickle plated. Frequency is marked on the tuning forks. The frequencies are 256, 288, 320, 341, 384, 420, 480 and 512.
- 03 Rubber pad for tuning fork
- 04 Step down transformer
- 05 Electromagnet
- 06 Horse shoe magnet
- 07 Screw gauge
- 08 Retord stand with Clamp
- 09 Slotted weights: 1/2 Kg set of 5 including hanger i.e. 2½ kg total.
- 10 Connecting wires
- 11 Weight : 8.6 Kg. (Approx.)
- 12 Dimension : W 145 x H 140 x D 200
- 13 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

OTHER APPARATUS REQUIRED:

- 01 Physical Balance.
- 02 Weight Box.

Note: Specifications are subject to change.

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