



55776 Experimental Set-Up has been designed specifically to perform Melde's experiments by using electrically maintained tuning fork. (1) Determination of the frequency of an Electrically Maintained Tuning Fork. (2) Verification of laws of vibrating strings that is to show that  $l^2/T = \text{constant}$ . The set-up consists of Electrically Maintained Tuning Fork, Stand with Pulley, Light weight pan, Battery eliminator etc. Practical experience on this setup carries great educative value for Science and Engineering Students.

#### OBJECT

- 01 To determine the frequency of an electrically maintained tuning fork by Melde's experiment using.
  - 1.1 Transverse arrangement.
  - 1.2 Longitudinal arrangement.
- 02 To verify the laws of vibrating strings by Melde's experiment that is to show that  $l^2/T = \text{constant}$  using.
  - 2.1 Transverse arrangement.
  - 2.2 Longitudinal arrangement.

#### FEATURES

The complete Experimental Set-up consists of the followings :

- 01 Electrically maintained : A large heavy nickel plated fork of approximately 60 vibrations is fitted on heavy cast tuning fork iron stand, with a special arrangement enabling the apparatus to be used horizontally or vertically. Complete with electromagnetic relay fitted with silvered points of contact. Works on 4 - 8 volts battery current. The electromagnet is adjustable so that amplitude of vibration may be varied between wide limits.
- 02 Stand with pulley
- 03 Light weight pan
- 04 Battery Eliminator. (Range 2 to 12V D.C. at 4Amp.)
- 05 Half metre scale
- 06 Connecting wires
- 07 Weight : 11.4 Kg. (Approx.)
- 08 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

#### OTHER APPARATUS REQUIRED :

- 01 Weight Box.
- 02 Physical Balance.

Note: Specifications are subject to change.

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