55954 Melde's Electrical Vibrator is a useful apparatus for investigating the vibration of a string or wire under tension. The equipment allows the length of the string and its tension to be varied, in which we have a very precise and fine arrangement. 55954 is provided with 6V AC Supply, which is applied to an electromagnet. This experiment carried out by the German physicist Franz Melde on the standing waves produced in a tense cable originally set Oscillating by a tuning fork, later improved with connection to an electric vibrator. This experiment demonstrates that mechanical waves undergo interference phenomena. Mechanical waves travelled in opposite directions from immobile points, called nodes. These waves are called standing waves since the position of the nodes and loops (points where the cord vibrated) stay static.

Features

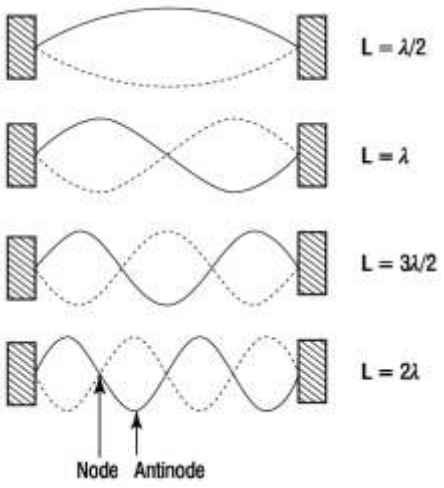
1. Provided with weights
2. Adjustment for magnet
3. Inbuilt AC Supply
4. Self-contained and easy to operate

Object

1. Study of determine Frequency of AC Mains using Melde's Electrical Vibrator

Technical Specifications

Length of String	:	88cm (approximate)
Weights	:	1g, 2g, 5g
Power Supply	:	230V ±10%, 50Hz
AC Power Supply	:	6V, 500 mA



Coil :

No. of Turn	Wire Dimension (mm)	Maximum Current (A)	Inductance (approximate) (mH)
800	0.404	0.363	9.2

Note: Specifications are subject to change.

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