

## Melde's Electrical Vibrator



Nvis 6056 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. Nvis 6056 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.

**Scope of Learning** 

## **Features**

- Provided with weights
- Adjustment for magnet
- Inbuilt AC Supply
- Self-contained and easy to operate
- Online product tutorial

## **Technical Specifications**

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

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No.	Wire	Maximum	Inductance
of Turn	Dimension	Current	(approximate)
	(mm)	(A)	(mH)
800	0.404	0.363	9.2
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• Study of determine Frequency of AC Mains using Melde's Electrical Vibrator

Designed & Manufactured in India by

## Nvis Technologies Pvt. Ltd.

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