Email : sales@scilabexport.com
Phone: +91-7082934803

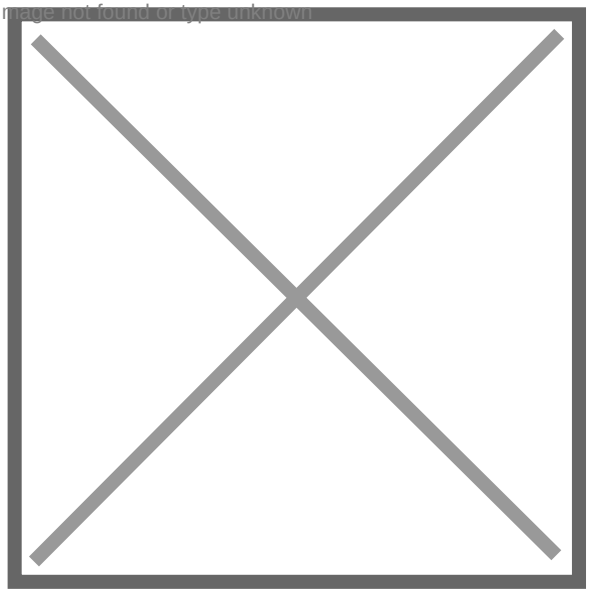
Product Name :

Sonometers

Product Code :

SCL-347/030

Image not found or type unknown



Science Lab
Email : sales@scilabexport.com
Phone: +91-7082934803

Description :

Sonometers (Product Code: SCL-347/030) is a wooden sonometer set used to study how the sound of a stretched wire depends on its length, tension and thickness, in school and college physics laboratories. It combines a 60 cm wooden resonance box with three steel cords, three movable bridges, a dynamometer, 500 g masses and tuning forks of 512, 480 and 440 Hz. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Material	Wood
Dimensions	110 x 10 x 8.5 cm
Resonance box	Wooden, 60 cm long, with scales
Steel cords	Two of 0.4 mm diameter and one of 0.8 mm diameter
Movable bridges	Three, to adjust the vibrating length of the cords
Tension measurement	Dynamometer
Masses	500 g + 6 x 500 g
Tuning forks	512, 480 and 440 Hz, with a hammer
Also included	Scale
Product code	SCL-347/030
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is a Sonometer Used For?

A sonometer verifies the laws of vibrating strings: the natural frequency of a wire falls as its vibrating length increases, rises with the tension, and falls as the wire gets thicker. Students slide the movable bridges to change the length, hang masses to set the tension and read that tension on the dynamometer, then switch between the 0.4 mm and 0.8 mm steel cords to see the effect of thickness.

In the classic resonance method, a small paper rider is placed on the wire and a struck tuning fork is pressed on the resonance box; the bridges are moved until the rider jumps off, showing the wire and fork share the same frequency. Repeating this with the 512, 480 and 440 Hz forks gives a set of readings for a length–frequency graph. This makes the set a standard sonometer for the physics lab in board-level and first-year college practicals.

What to Specify When Ordering

-
- ts
-