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Product Name :

Sonometer, 3 Wire Pattern

Product Code :

SLE/PHY/296



Science Lab
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Description :

Sonometer, 3 Wire Pattern (Product Code: SLE/PHY/296) is a stretched-string apparatus used to study the laws of vibrating strings and compare frequencies in school and college physics laboratories. Its hollow wooden resonance box, 1290 x 130 x 110 mm, carries millimetre scales, a pulley-loaded wire and a 100 N spring balance for measured tension. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Resonance box	Hollow, wooden, 1290 x 130 x 110 mm
Scales	Divided in millimetres between the fixed bridges over which the wires are stretched
Loaded wire	One wire passes over a pulley and can be loaded as desired
Tension measurement	Spring balance reading 100 N x 5 N fitted to one end
Tension adjustment	Fine adjustment of the tension by a wing nut
Pattern	3 wire
Product code	SLE/PHY/296
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the 3 Wire Sonometer Used For?

The sonometer lets students verify the three laws of transverse vibration: frequency varies inversely with vibrating length, with the square root of tension, and inversely with the square root of mass per unit length. On this pattern the spring balance sets a measured tension on one wire through the wing nut, while the pulley wire is tensioned by hanging masses, so two methods of applying tension can be compared on one box. A small paper rider on the wire jumps off at resonance when a sounding tuning fork is pressed against the box.

Typical practicals include finding the frequency of an unknown tuning fork, comparing two forks, and plotting vibrating length against 1/f. Move the bridges slowly and read lengths from the millimetre scale at the bridge edges. Release tension at the end of each session so the wires and the spring balance are not left under load, and keep the wooden box dry so its resonance stays consistent.

What to Specify When Ordering

- Number of Sonometer, 3 Wire Pattern sets for your laboratory.
- Tuning fork sets and slotted masses for loading the pulley wire, if needed.
- Spare wire requirements for restringing.

OEM

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