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

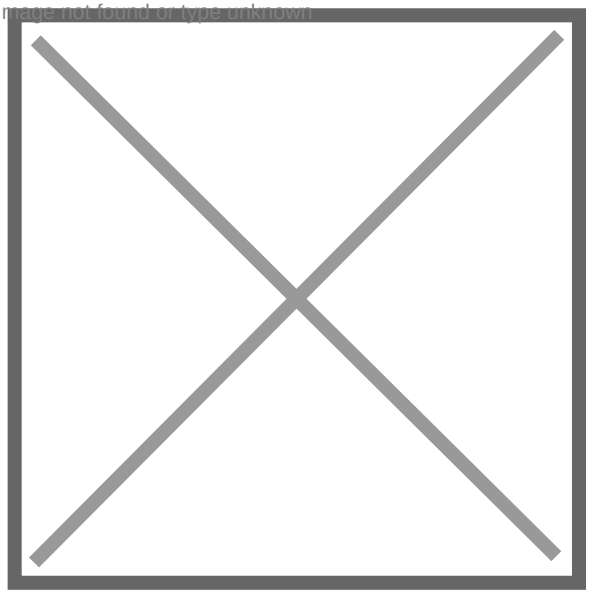
Product Name :

Electromagnet with Transformer for Sonometer

Product Code :

SCL-292/044

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Description :

Electromagnet with Transformer for Sonometer (Product Code: SCL-292/044) is a sonometer accessory used to set a steel sonometer wire vibrating from the AC mains, so students can determine the frequency of the supply in the physics lab. Senior schools and colleges use it forthe AC sonometer experiment, and it pairs the electromagnet with its own transformer in oneitem. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturerand physics instruments supplier in India, at its own factory in Ambala, for sonometer work inIndian and overseas labs.

Key Details

Parameter	Detail
Item	Electromagnet with transformer
Components	Electromagnet; transformer
For use with	Sonometer
Product code	SCL-292/044
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Sonometer Electromagnet Used For?

In the AC sonometer experiment the electromagnet sits close to the steel wire between the two bridges, and the transformer feeds its coil from the AC mains. The alternating field pulls on the magnetic wire twice in every cycle, so the wire is driven at twice the mains frequency. Students move a bridge or change the load until a small paper rider on the wire is thrown off, which marks resonance, then calculate the wire's frequency from its vibrating length, tension and mass per unit length and halve it to get the supply frequency.

The method only works with a magnetic wire such as steel; brass or copper wire will not respond to the electromagnet. Keep the pole close to the wire without touching it, switch off at the mains before adjusting the set-up, and avoid leaving the coil energised between readings so it does not warm up unnecessarily.

What to Specify When Ordering

- Your mains supply voltage and frequency, so we can confirm the transformer suits it
- The sonometer it will be used with, for example a simple or 3-wire pattern
- Whether a sonometer, steel wire and slotted weights should be quoted with it

OEM Manufacturer

ScienceLab, the trading name of **Jain Scientific Equipments Private Limited**, is the OEM of this Electromagnet with Transformer for Sonometer and makes it at its own licensed factory at Saha[illegible]r, repla[illegible]s MSM[illegible]ps expor[illegible]n