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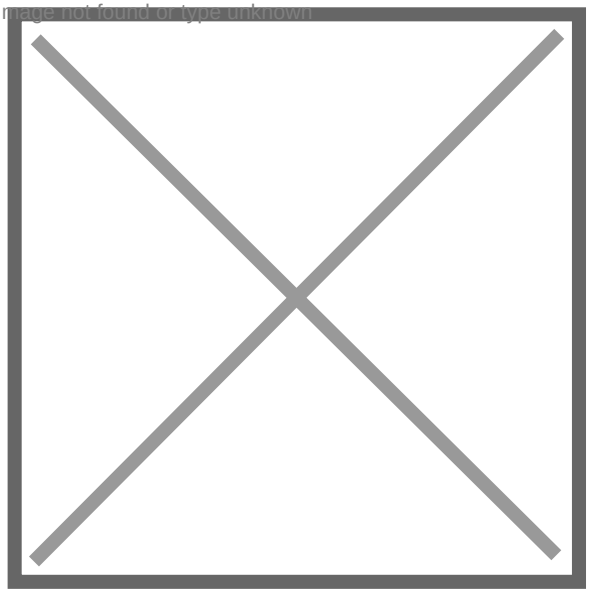
Product Name :

Faraday's Law Apparatus

Product Code :

SLE/EAM/08

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Description :

Faraday's Law Apparatus (Product Code: SLE/EAM/08) is an electromagnetic induction apparatus used to show and measure the pulse of electricity a falling magnet induces in a coil, in school and college physics labs. A small cylindrical magnet, supplied with it, drops down anacrylic tube through a movable coil, and twin coils of 150 and 300 turns let students compareresults. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer,at its own factory in Ambala, India, as part of its electromagnetic induction kit range.

Specifications

Parameter	Detail
Guide tube	Acrylic tube supporting an easily moved coil
Coils	Twin coils of 150 turns and 300 turns
Magnet	Small cylindrical magnet, supplied
Output	A pulse of electricity each time the magnet passes through the coil
Display needed	Oscilloscope to monitor the pulse and measure its amplitude; PC-based oscilloscopes are particularly suited
Documentation	Full instructions included
Product code	SLE/EAM/08
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Faraday's Law Apparatus Used For?

A first run is purely qualitative: drop the magnet and watch the oscilloscope trace rise and then swing the other way as the magnet enters and leaves the coil, a direct picture of Lenz's law. Switching between the 150-turn and 300-turn coils then shows how the size of the induced pulse depends on the number of turns, while turning the magnet over reverses the trace. A PC-based oscilloscope makes this especially easy because each single-shot event can be captured, stored and compared on screen.

For senior students the apparatus becomes a quantitative investigation of Faraday's law. Sliding the coil to a different position on the tube changes how far the magnet falls before reaching it, and therefore its speed; students work out that speed from the equations of motion and plot pulse amplitude against it. It is compact physics lab equipment in India's senior classrooms that ties induction to mechanics in one practical. Place a soft pad at the bottom of the tube so the magnet is not chipped by repeated drops.

OEM Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab, is the OEM (original equip
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