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Product Name :

Induced Current Apparatus

Product Code :

SLE/PHY/100



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Description :

Induced Current Apparatus (Product Code: SLE/PHY/100) is a two-coil demonstration set used to show how a changing magnetic field produces an electric current in school and college physics laboratories. Teachers use it for electromagnetic induction and mutual induction lessons, and its soft iron core fits the primary cylinder to strengthen the effect. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of physics lab equipment in India, at its own factory in Ambala, as a practical electromagnetic induction kit for Indian classrooms.

Key Details

Parameter	Detail
Primary coil	Insulated copper wire wound upon a cylinder, fitted with terminals
Secondary coil	Wound upon a cylinder into which the primary coil fits
Core	Soft iron core that fits the cylinder of the primary
Connections	Supplied complete with terminals
Product code	SLE/PHY/100
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Induced Current Apparatus Used For?

The apparatus lets students see Faraday's law at work. Connect the secondary coil to a centre-zero galvanometer and the primary coil to a cell through a tap key: each time the primary circuit is made or broken, the needle kicks briefly, first one way and then the other. Pushing the energised primary into the secondary, or pulling it out, gives the same result and shows that only a change in magnetic flux induces a current.

Adding the soft iron core to the primary cylinder makes the deflections noticeably larger, a simple way to discuss how iron concentrates magnetic flux in transformers and induction coils. For clear readings, reverse the galvanometer connections to show that the direction of the induced current depends on the change, and switch the primary off between trials so the coil does not warm up. It is a dependable piece of physics lab equipment for schools in India preparing electromagnetism practicals.

OEM Manufacturer

The Induced Current Apparatus is made and assembled by ScienceLab, the trading name of Jain Scientific Equipments Private Limited, at its own licensed factory at Saha, Ambala, Haryana, India. As the original equipment manufacturer, the company produces this coil set at its factory rather than sourcing it from a trader, so schools, colleges, dealers and importers buy it factory-direct. Questions about a replacement coil or a spare soft iron core go straight to the manufacturer — just ask us. Learn more about the company on our company profile.

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