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

Product Name :

Demonstration Motor AC/DC

Product Code :

SLE/PHY/153



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Description :

Demonstration Motor AC/DC (Product Code: SLE/PHY/153) is a hand-wheel operated demonstration machine used to show the generation of alternating and direct current in physics classrooms and laboratories. Turning the hand wheel produces AC and DC at the same time, and LED diodes make the generated voltage visible to the whole class. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of school physics lab equipment in India, at its own factory in Ambala.

Key Details

Parameter	Detail
Operation	Hand wheel, turned by hand
Output	AC and DC current produced simultaneously
Indication	LED diodes represent the AC and DC voltage being generated
Product code	SLE/PHY/153
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the AC/DC Demonstration Motor Used For?

Students often find it hard to picture the difference between alternating and direct current, because both simply "make a bulb light". This model tackles that directly: as the hand wheel turns, it produces AC and DC together and shows each through LED diodes, so the class can compare the two outputs side by side. Since an LED lights only when current passes through it in one direction, it is a natural way to reveal how the generated output behaves.

A good routine is to turn the wheel slowly first so students can watch the LEDs closely, then faster to show how the output responds to speed. The demonstration supports textbook topics such as electromagnetic induction, generators and the role of the commutator, and it complements any AC DC circuits experiment kit used later in student practicals.

OEM Manufacturer

The Demonstration Motor AC/DC is built by Jain Scientific Equipments Private Limited, the company behind the ScienceLab name, acting as OEM (original equipment manufacturer). Production takes place at its own licensed factory at Saha, Ambala, Haryana, India, and the model is supplied factory-direct to schools, colleges, teacher-training institutes, dealers and importers. If an indicator or other part needs attention after years of classroom use, ask us — the request goes straight to the maker. Read about the company on our company profile.

Related Physics Lab Equipment

Teachers often combine this model with the following apparatus for a full unit on generators and moto

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