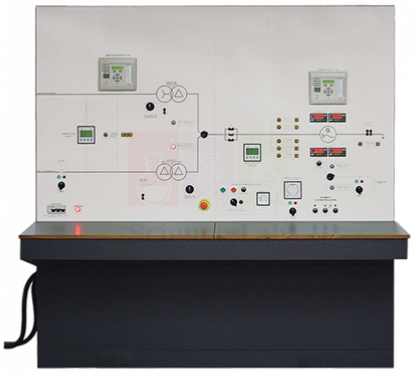
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Product Name :

Power System Simulator Generator

Product Code :

SLE/EPS/04



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Description :

Power System Simulator Generator (Product Code: SLE/EPS/04) is a motor-driven generator console used to simulate a central power station feeding a transmission network in powersystems laboratories. Electrical engineering students and trainees use it to study excitationcontrol, prime mover speed and generator protection, with relays that operate real circuit-breakers — a core item of lab equipment for technical institutes. It is built by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of engineering lab equipment inIndia, at its own factory in Ambala.

Key Details

Parameter	Detail
Machine set	Motor and generator set: two coupled machines mounted in the base of the control console
Motor speed control	Vector drive
Generator output control	Manual excitation or different types of automatic excitation
Metering	Digital meters showing the conditions of the prime mover and generator
Circuit-breakers	Include hand-operated switches and lamps that show whether each breaker is open or closed
Protection relays	Set by students from their control panels; operate the circuit-breakers around the second generator
Computer link	Relay sockets for connection to a suitable computer for more detailed programming, if needed
System connection	Connects at the higher voltage (transmission) level of the power system set-up it is used with, to simulate central generation
Product code	SLE/EPS/04
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Power System Simulator Generator Used For?

The simulator represents a second generating source — the kind of large central station, such as a main power station, that feeds the grid at transmission voltage. Linked to the network at that level, it lets students compare manual and automatic excitation control of generator output, vary motor speed through the vector drive and read prime mover and generator conditions on the digital meters.

Protection is the second half of the syllabus it supports. Students set the relays from their control panels, create the conditions that make a relay trip the circuit-breakers around the generator, and confirm the result from the breaker lamps. This shows how actual generators are protected and why c e comp