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Product Name :

Thyristor and Diode Converters

Product Code :

SLE/EPS/07



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Description :

Thyristor and Diode Converters (Product Code: SLE/EPS/07) is a power electronics trainer used to build and study diode and thyristor rectifier circuits in electrical and electronics engineering laboratories. Students patch thyristors, diodes, inductors, transformers andsmoothing capacitors together on a mimic-diagram panel, then compare gate pulses with outputwaveforms on the oscilloscope included with the set. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM technical educational equipment manufacturer, atits own factory in Ambala, India.

Key Details

Parameter	Detail
Control panel	Clear mimic diagrams with shrouded sockets; circuit parts connected with shrouded leads
Circuit components	Thyristors, diodes, inductors, transformers and smoothing capacitors
AC supply options	Multi-tapped transformers giving a choice of single-phase and three-phase AC voltages
Load inductor	Shows the effect of inductance when smoothing AC ripple in rectifier circuits
Interphase transformer	Centre-tapped; shows the effect of reducing circulating currentsin rectifier circuits
Circuit protection	Fast-blow fuses on the control panel protect the load side of experiment circuits
Metering	Standard analogue meters plus a multi-function digital meter for currents and voltages
Lower panel controls	Adjust AC supply voltage and ballast resistance during experiments
Gate triggering	External or internal source selectable for the thyristor gates
Waveform viewing	Transducers for connecting the oscilloscope to compare gate pulses with output waveforms
Included	Oscilloscope
Product code	SLE/EPS/07
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Are Thyristor and Diode Converters Used For?

This trainer teaches how AC is converted to DC — first with uncontrolled diode rectifiers, then with t
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