



**Science Lab**

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**Product Name :**

Thyristor and Diode Converters

**Product Code :**

SLE/EPS/07



## **Description :**

- The control panel has clear mimic diagrams with shrouded sockets.
- Students use shrouded leads to connect the different parts of the circuits.
- The parts include thyristors, diodes, inductors, transformers and smoothing capacitors.
- A load inductor shows the effect of inductance when smoothing the AC ripple in rectifier circuits.
- Fast-blow fuses on the control panel protect the load side of experiment circuits.
- The multi-tapped transformers give a choice of single and three-phase AC voltages for connection to the diodes and thyristors.
- A mix of standard analogue meters and a multi-function digital meter measure the currents and voltages in the circuits.
- A centre-tapped interphase transformer shows the effect of reducing circulating currents in rectifier circuits.
- Students use controls on the lower panel to adjust AC supply voltage and ballast resistance during experiments.
- For thyristor experiments, students can select an external or internal source to trigger the gates of the thyristors.
- Transducers allow students to connect an oscilloscope (included) to show and compare the gate pulses with the output wave-forms.

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