



Power Electronic Training Board has been designed specifically for the study of SCR Triggering circuits.

Practical experience on this board carries great educative value for Science and Engineering Students.

Object:

To study the SCR Triggering circuits using

01. Resistor (R) Triggering circuit
02. Resistor - capacitor (R-C) Triggering circuit
03. Uni-junction Transistor (UJT) Triggering circuit (UJT relaxation Oscillator)
04. Half-wave controlled rectifier
05. Full-wave controlled rectifier.

Features:

The board consists of the following built-in parts:

01. 35V A.C. at 100mA A.C. Power Supply.
 02. Bridge rectifier for making D.C. voltage.
 03. Two Silicon controlled rectifier (SCR).
 04. Uni junction Transistor.
 05. Pulse transformer 1:1.
 06. Two potentiometer for varying load.
 07. Two potentiometer one for controlling SCR firing angle and other for controlling UJT firing angle.
 08. Adequate no. of other Electronic Components.
 09. Mains ON/OFF switch, Fuse and Jewel light.
- * The unit is operative on 230V \pm 10% at 50Hz A.C. Mains.
 - * Adequate no. of patch cords stackable 4 mm spring loaded plug length 1/2 metre.
 - * Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
 - * Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Other Apparatus Required

- * Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)

Note: Specifications are subject to change.

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