Order Code - 46537
AC Regulators Using Triac, Anti Parallel Thyristor and Triac & Diac

Power Electronic Training Board has been designed specifically for to study A.C. Regulators using triac, antiparallel thyristor and triac & diac.

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

Object

01. A.C. Regulator using a Triac.
02. A.C. Regulator using Thyristor connected in antiparallel.
03. A.C. Regulator using a triac & a diac (with R.C. triggering circuit).

Features

The board consists of the following built-in parts :

01. 230V A.C. Isolated Transformer, Power 50 Watt.
02. 9V D.C. at 100mA Zener Regulated Power Supply.
03. Two silicon controlled rectifiers (SCR's).
04. Uni Junction Transistor (UJT).
05. TRIAC.
06. DIAC.
07. Pulse Transformer 1:1:1.
08. Two potentiometers one for controlling UJT firing angle & other for varying load.
09. Bulb 40W, 230V A.C.

* Mains ON/OFF switch, Fuse and Jewel light.
* The unit is operative on 230V ±10% at 50Hz A.C. Mains.
* Adequate no. of patch cords stackable 4 mm spring loaded plug length ½ 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)/with isolation transformer for unearthing.

Note: Specifications are subject to change.

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