

Product Code . JL-PET-1432

AC Regulators Using Triac Anti Parallel Thyristor



Description

AC Regulators Using Triac Anti Parallel Thyristor

- Power Electronic Training Board has been designed specifically for to study A.C. Regulators using triac, anti parallel thyristor and triac & diac.
- Practical experience on this board carries great educative value for Science and Engineering Students.

Object:

- A.C. Regulator using a Triac
- A.C. Regulator using Thyristor connected in anti parallel
- A.C. Regulator using a triac & a diac (with R.C. triggering circuit)

Features:

The board consists of the following built-in parts :

- 230VA.C. Isolated Transformer, Power 50 Watt
- 9V D.C. at 100mA Zener Regulated Power Supply
- Two silicon controlled rectifiers (SCR's)
- Uni Junction Transistor (UJT)
- TRIAC
- DIAC
- Pulse Transformer 1:1:1
- Two potentiometers one for controlling UJT firing angle & other for varying load
- Bulb 40W, 230VA.C
- Mains ON/OFF switch, Fuse and Jewel light

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- 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 $\frac{1}{2}$ 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

Weight:

- 6 Kg. (Approx.)

Dimension:

- W 300 x H 140 x D 200

Other Apparatus Required:

- Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed) /with isolation transformer for unearthing

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