



Product Code . JL-PET-1434

Firing Circuit Using Ramp Comparator Scheme

Description

Firing Circuit Using Ramp Comparator Scheme

- Power Electronic Training Board has been designed specifically for the study of the firing circuit for single phase converter using Ramp Comparator Scheme.
- Practical experience on this board carries great educative value for Science and Engineering Students.

Object:

- To study the firing circuit for single-phase converter using Ramp Comparator Scheme.

Features:

The board consists of the following built-in parts:

- 6VAC at 100mAAC Power Supply
- $\pm 12V$ DC at 100mA fixed regulated Power Supply
- Two Op-Amp's. IC
- Quad, Ex-OR gate IC
- Triple, 3 input AND gate IC
- Hex inverter gate IC
- Quad, two input AND gate IC
- Two NPN Transistor
- Potentiometer for reference voltage adjustment
- Pulse Transformer 1: 1
- Adequate no. of other Electronic Components
- 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 $\frac{1}{2}$ meter
 - 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:

- 3 Kg (Approx.)

Dimension:

- W 340 x H 110 x D 210

Other Apparatus Required:

- Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)

Optional:

- Unit for above experiment to work as a load having
- Isolation Transformer 50 watt.
- Lamp 40 watt
- SCR 400V 4A
- Mains ON/OFF switch, Fuse & Jewel light

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