
Power Electronic Training Board has been designed specifically to study the applications of SCRs in electronic alarm circuits. The high power gain, low leakage currents and high current carrying capacity of SCRs make them ideal for such applications. This training board is an important set up to study various configurations and designs of electronic alarm circuits. The board is absolutely self contained and requires no other apparatus.

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

**OBJECT**

01. Study of Make-to-operate alarms.
02. Study of Break- to-operate alarms.
03. Demonstration of temper-proof burgler alarm.
04. Demonstration of alarm with delayed self latching.
05. Demonstration of alarm operated with water level.
06. Demonstration of alarm sensitive to light beam using L.D.R.
07. Demonstration of alarm sensitive to temperature using thermistor.

**FEATURES**

The board consists of following built-in parts:

01. 12V D.C. Power Supply internally connected.
02. Internal 12V audio alarm.
03. Push button switch for push to break demonstration.
04. Push button switch for push to make demonstration.
05. One PNP and two NPN transistors for electronic alarm control.
06. Two PNP transistors connected in differential amplifier mode for light and temperature sensing.
07. SCR for alarm operation.
08. Potentiometer for time delay control.
09. Potentiometer for balance of differential amplifier.
10. ON/OFF switch for 12V D.C. stand by and reset.
11. LDR for light sensing and thermistor for temperature sensing.
12. Fuse protection for 12V D.C. supply.
13. Adequate no. of other Electronic Components.
14. 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.

Note: Specifications are subject to change.

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