

SCR application trainer has been designed specifically for the study of SCR & Triac application. This training board gives better understanding of SCR, triac, UJT & Diac as used in various applications. Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT:- To study the following D.C. Circuit Breaker

- 1 DC Circuit Breaker
 - 1.1 To Study SCR Turn Off Action Under Varying Loads
 - 1.2 To Study DC Over Voltage Current Trip Action
- 2 Lamp Flasher
 - 2.1 Symmetrical SCR Type DC Flasher
 - 2.2 High Power AC Flasher
- 3 AC Phase Control
 - 3.1 Half Wave Phase Control
 - 3.2 Full Wave Phase Control
- 4 UJT Relaxation Oscillator
- 5 Thyristor Alarms
 - 5.1 Study of Make-to-operate Alarms
 - 5.2 Study of Break- To-operate Alarms
 - 5.3 Demonstration of Temper-proof Burgler Alarm
- 6 Time Delay Relay
 - 6.1 Study of Delayed Turn-'ON' of DC Load
 - 6.2 Study of Auto Turn-'OFF' of DC Load
- 7 Light Activated Solid State Switch
- 8 Light Operated Switch/relay
- 9 To Demonstrate Lift Activated Relay
- 10 Temperature Controller
 - 10.1 To Turn ON or OFF an External Load At A Particular Temperat
 - 10.2 To Control And Maintain The Temperature of The Internal ove
- 11 Illumination Control Using Scr
- 12 Application of a Triac For Illumination Control
- 13 Study of An Electronic Timer Using IC NE 555
- 14 Scr Controlled Emergency Light



FEATURES

The board consists of the following built in parts :

01. Three I.C. regulated D.C. power supplies internally connected.
02. A.C. supply.
03. Isolation Transformer.
04. Timer I.C.
05. Operational amplifier I.C.
06. Quad dual Input NAND gate I.C.
08. Pulse Transformer.
09. Battery.
10. D.C. Relay.
11. OVEN with Power Supply.
12. Thermometer 0-110 °C.
13. Adequate no. of electronic components to be used in various experiments i.e. Pot 5 Nos., Push to on switch 2 Nos., Push to off switch, Buzzer, Bulb 230V40watt, Bulb 12V 5watt, LED 2Nos., Diode 4 Nos., Diac, Zener 2Nos., LDR, Thermistor, SCR 4 Nos., Triac, UJT 2 Nos, Transistors 3 Nos. Resistance & Capacitor 44No. etc. Main ON/OFF switch, fuse and jewel light.
 - * The Unit is operative on 230V, $\pm 10\%$ at 50Hz A.C. mains.
 - * Good quality, reliable terminals/sockets are provided at appropriate places on panel for connections/observations.
 - * Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
 - * Patch cords are provided to make required connections.

OTHER APPARATUS REQUIRED

- * Digital Multimeter
- * General Purpose Unearthed Oscilloscope.

Note: Specifications are subject to change.

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