



Diode as Thermistor Device

Model : SE-1014

SINCOM SE-1014 Diode as Thermistor Device is a simply designed trainer for studying the operation of a Diode as a thermo-resistive switching device to drives the Relay and DC LED load for the change in temperature Input.

Features

- ❖ DC LED load
- ❖ Diode as Temperature switching
- ❖ Wide Temperature Range
- ❖ External Electrical Heating System
- ❖ In-Built Fixed regulated DC Power Supply
- ❖ Presents a multi-color Circuit Diagram printed on the front panel of the white board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Interconnections by 2mm high quality banana sockets and pins.

Technical Specifications

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| ▪ AC Mains Power Supply | : 230V \pm 10%, 50Hz |
| ▪ Fixed Regulated DC Power Supply | : +12V /500mA |
| ▪ Temperature Sensor | : Diode wired with IC 555 and controller circuit |
| ▪ Load | : LED |
| ▪ Load Driver | : Relay SPDT |
| ▪ Heating Source | : Electrical Heating system |
| ▪ Temperature Range | : Upto 100° C |
| ▪ Maximum Output Voltage | : 12V |
| ▪ Weight | : 3.0 kg (approx) |
| ▪ Dimensions (mm) | : L 220 x W 270 x H 110 |
| ▪ Interconnections | : 2mm Banana sockets |
| ▪ Operating Temperature | : 0-100°C, 80% RH |

Learning Scope

- To Study Diode as a temperature sensor act as a Thermo-resistive device using IC555 and relay driver circuit.
- To Study Effect of heating I/P on diode sensor and note the corresponding change in DC LED load.

Other Instruments Required : Digital Multimeter

Accessories Included : Electrical Heating System, Digital Temperature Indicator with sensor, Set of Patch Cords, Detail Instruction Manual.