

## Characteristics of Temperature Sensor IC LM 335

### Model : SE-1011

**SINCOM SE-1011 Characteristics of Temperature Sensor IC LM335** is a simply designed trainer for studying the characteristics of Temperature Sensor IC LM 335. It offers the convenience of adjusting the DC supply voltage and includes on-board digital DC voltmeter and temperature indicator. Additionally, it features an electrical heating system for practical experimentation. This comprehensive trainer provides a complete learning experience for understanding the behaviour and properties of temperature sensor IC.

### Features

- ❖ Precision temperature sensor IC LM 335
- ❖ Wide Temperature Range
- ❖ 3<sup>1/2</sup> Digit LED Digital DC Volt Indicator
- ❖ Digital Temperature Indicator
- ❖ External Electrical Heating System
- ❖ Current controlling resistor in series
- ❖ In-Built Fixed and Variable 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

▪ AC Mains Power Supply	: 230V $\pm$ 10%, 50Hz
▪ Fixed Regulated DC Power Supply	: +5V /500mA
▪ Variable DC Power Supply	: Variable 0 to +12V
▪ Temperature Sensor	: IC LM 335
▪ Heating Source	: Electrical Heating system
▪ Temperature Range	: Upto 100°C
▪ Current Controlling Resistor	: MFR 100Ω, $\pm$ 5% in series
▪ Maximum Output Voltage	: 12V
▪ Total Digital Meters	: 02 (1 Voltmeter and 1 Temperature Indicator)
▪ Digital Voltmeter	: DC 0-20V, Red Color 3 <sup>1/2</sup> Digit LED Display
▪ Digital Temperature Indicator	: 3 <sup>1/2</sup> Digit LED Temperature Display upto 100°C with sensor
▪ 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 characteristics of Temperature Sensor IC LM335.
- To observe the change in output voltage V across the LM 335 for change in temperature.

### Other Instruments Required : Digital Multimeter

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