

# SEMI-CONDUCTOR TEMPERATURE SENSOR

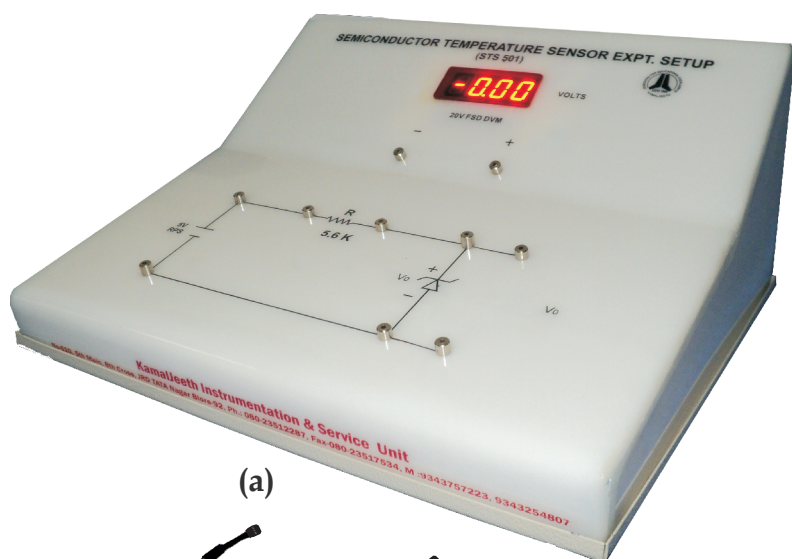
Model: STS-501/127

## Experiment(s):

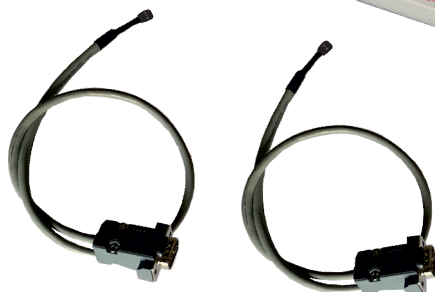
1. Temperature sensitivity of temperature sensor ICs

(For more details, procedure & manual visit: [www.kamaljeeth.net](http://www.kamaljeeth.net))

Reference : Lab Experiments Journal vol-1, No.1, Page-8



(a)



(b)



(c)



## Experiment setup consists:

- a) Semiconductor temperature sensor kit
- b) Digital thermometer
- c) Electric kettle & stand

## Specifications:

### a) Semiconductor temperature sensor kit

Consists of built-in power supply:

5V regulated & short circuit protected

Voltmeter: 0-20 V, 3½ digit, LED display

Rated Input: 220 V/50 Hz or 110 V/60 Hz

Power Consumption: <50 W

Cabinet: Acrylic body, aluminium bottom

Connectors: 2 mm - 2 mm moulded brass pin patch cords

Temperature Sensor: LM35 and LM335

### b) Digital thermometer

Range: 300 °C

Resolution: 0.1 °C

### c) Electric kettle & stand

Kettle capacity: 0.5 L

Max. Temperature: 100 °C

Stand: Height adjustable and holds test tube with sample and temperature probe



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3 years manufacturing warranty