

## Thermistor (NTC) Characteristics with Digital Meters

### Model : SA-126DM

**SINCOM SA-126DM NTC Thermistor Characteristics** with Digital meters is comprehensive remarkable trainer useful to study thermal characteristics of NTC type Thermistor under different temperatures. The Thermistor have applications in temperature measurement, temperature compensation and temperature control circuits. The trainer is simply designed to study the NTC type Thermistor characteristics and determine its various parameters in a simple experimental way. The trainer is equipped with on board Digital voltmeter & Digital Ammeter and heating lamp source.

### Features

- ❖ 6mm lacquer-coated Thermistor disk Package
- ❖ One NTC Thermistor with broad resistance range is provided
- ❖ Thermistor having Good stability and durability with high accuracy in resistance and B-constant
- ❖ Negative Passive Resistance output
- ❖ Convex front
- ❖ Current controlling resistor in series
- ❖ Facility to vary wide range of applied DC input voltage
- ❖ In-Built Variable regulated DC Power Supply
- ❖ Multi color Circuit Diagram printed on the front of the white board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ On Board 3<sup>1/2</sup> Digit Digital Voltmeter and Ammeter
- ❖ On Board Heating source using 60W Lamp load with intensity control
- ❖ User friendly Designed
- ❖ Very Easy for Operation
- ❖ Interconnections by 2mm high quality banana sockets and pins
- ❖ Maximum Test points to explore all the corners of experiment
- ❖ 1 Year Warranty

### Technical Specifications

▪ AC Mains Power Supply	: 230V $\pm$ 10%, 50Hz
▪ DC Power Supply	: IC Regulated variable 0V to +12V / 500mA
▪ Thermistor Used	: 10K $\Omega$
▪ Thermistor Type	: NTC Thermistor
▪ Diameter	: 6mm
▪ Front	: Convex
▪ Maximum load Current	: 50mA under full heating conditions
▪ Maximum Operating Voltage	: 15V
▪ Current Controlling Resistor	: MFR 100 $\Omega$ , $\pm$ 5% in series
▪ Heating Source	: Using 60W Lamp load with Intensity control
▪ Digital Voltmeter	: 0-20V
▪ Digital Ammeter	: 0-200mA
▪ Meter Display	: Red Color, 3 <sup>1/2</sup> Digit , LED Display



An ISO 9001:2015 Co.

▪ Weight	: 2.0 kg (approx)
▪ Dimensions (mm)	: L 220 x W 270 x H 110
▪ Interconnections	: 2mm Banana sockets
▪ Operating Temperature	: 0-70°C, 80% RH

### Learning Scope

- To Study operation of Thermistor.
- To Study the characteristics of (NTC) Thermistor w.r.t. Temperature
- To Observe & Note Change in Current & Voltage of Thermistor w.r.t. change in the Temperature.

### Other Instruments Required : Nil

### Accessories Included

Set of Patch Cord, Heating Lamp Load 60W and Details Instruction Manual