

Temperature ON/OFF Controller using RTD/ Thermocouple

Model : SE-1008



SINCOM SE-1008 Temperature ON/OFF Controller using RTD / Thermocouple is an exceptional user-friendly trainer designed for studying temperature measurement and ON/OFF control of heating loads. It utilizes RTD/Thermocouple technology to ensure precise temperature readings and control. With its microcontroller-based system, this comprehensive trainer offers accurate temperature measurement and control capabilities. The LED seven segment display provides clear temperature readings, while users can fluently set the temperature cut-off and control the electrical heater load.

Features

- ❖ Accurate Temperature measurement and ON/OFF control action
- ❖ Platinum RTD / CRAL Thermocouple as a Temperature Sensor (any one option)
- ❖ Microcontroller based system
- ❖ Wide Temperature Range
- ❖ 3^{1/2} Digit LED Temperature Display
- ❖ Easy setting of Temperature Cut-Off by Push Switches.
- ❖ Heater Load control
- ❖ 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

- AC Mains Power Supply : 230V ±10%, 50Hz
- DC Power Supply : Regulated ±12V /500mA ,+5V /500mA



An ISO 9001:2015 Co.

- Temperature Sensor : RTD PT 100 OR CRAL K type Thermocouple
- Controller : Micro controller based
- Heater Load Control By : Relay Driver
- Temperature Setting By : 03 Push Switches
- Temperature Display : Red Color, 3^{1/2} Digit , LED Display
- Temperature Measuring Range : Upto 100° C
- Temperature ON/OFF Setting Range : Upto 100° C
- Heating Source : Electrical water Heating system
- Weight : 3.0 kg (approx)
- Dimensions (mm) : L 270 x W 390 x H 130
- Interconnections : 2mm Banana sockets
- Operating Temperature : 0-100°C, 80% RH

Learning Scope

- To study Temperature measurement using RTD/ Thermocouple.
- To observe and note the variation in temperature displayed w.r.t. change in Temperature.
- To Study ON/OFF Temperature Controller action.
- To observe & Note temperature shown by the temperature sensor and it's ON & OFF controlling of Heater Load w.r.t. Pre-decided Temperature.

Other Instruments Required : Digital Multimeter

Accessories Included : Electrical Heating System, Set of Patch Cords, Detail Instruction Manual.