**Scientech**



**Temperature Control Scientech 2424** enables Students and practicing Engineers to gain invaluable practical experience of the principles and application of analog module in PLC.

The objective is to have a clear understanding of how analog signals are interfaced and controlled with PLC.

Temperature Control by PLC Scientech 2424 has a Temperature Sensor which senses Temperature of heater. For cooling, a fan is provided on top of the heater which can be switched ON / OFF as needed. The Sensor gives output in terms of Voltage with respect to Temperature. The module is connected with analog input and output of PLC. Users can connect the analog input and output of PLC with Temperature Sensor with the help of 2mm patch cords and can program this module with the help of PLC software.

## Features

- **User friendly and powerful instruction sets**

- **Temperature variations in Voltage shown on Software**

- **Ready to use application module**
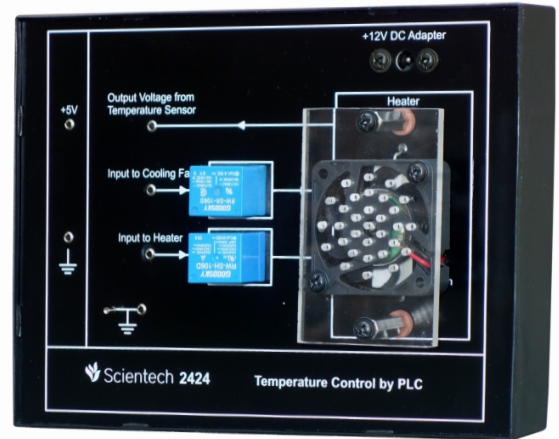
- **Online Product Tutorial**

## Scope of Learning

**Study and use of:**

- Temperature control

- Compare instruction

- Temperature Sensor

- Controlling a heater and fan

- Temperature control by PLC through ladder program

## Technical Specifications

| | | |
|---|---|---|
| **Digital Output pin Voltage** | : | 5 V DC when particular o/p is activated from PLC |
| **Output of Sensor** | : | 0-1 V max  0 to 100°C |
| **Heater** | : | 10 Watt resister |
| **Power Supply** | : | From PLC and  DC 12V - 1A adapter for fan and heater |
| **Dimension (mm)** | : | W 175 x D 130 x H 28 |
| **Weight** | : | 300 gms (approximately) |
| **Product Tutorial** | : | Online on www.ScientechLearning.com |
| **Operating Conditions** | : | 0-40°C, 85% RH |
| **Included Accessories** | : | 12 V DC Adapter  -1 no. |
| | | Patch cords 16" (2mm)-6 nos. |
| | | Product Tutorial CD-1 no |

**Note:** This module requires analog input. Scientech 2424 can be  directly interface with Scientech 2400A/B/C/E/GN/J/I. If you want to interface Scientech 2424 with Scientech2400G, Scientech 2400N is required.

Subject to Change

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