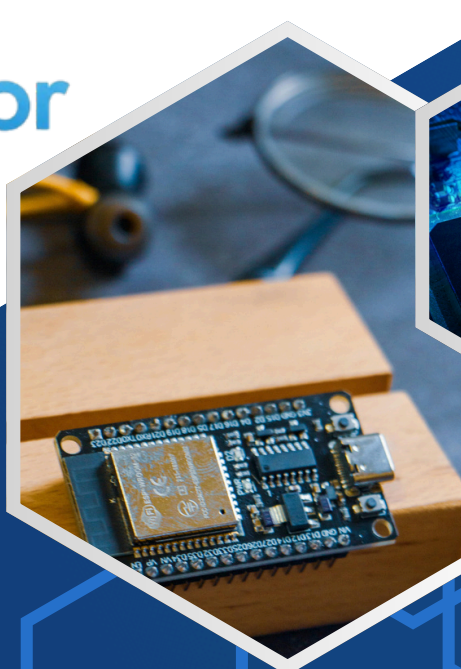




SecureVector

Electronic Safety and
Security Products



RS485-MODBUS TEMPERATURE TRANSMITTER

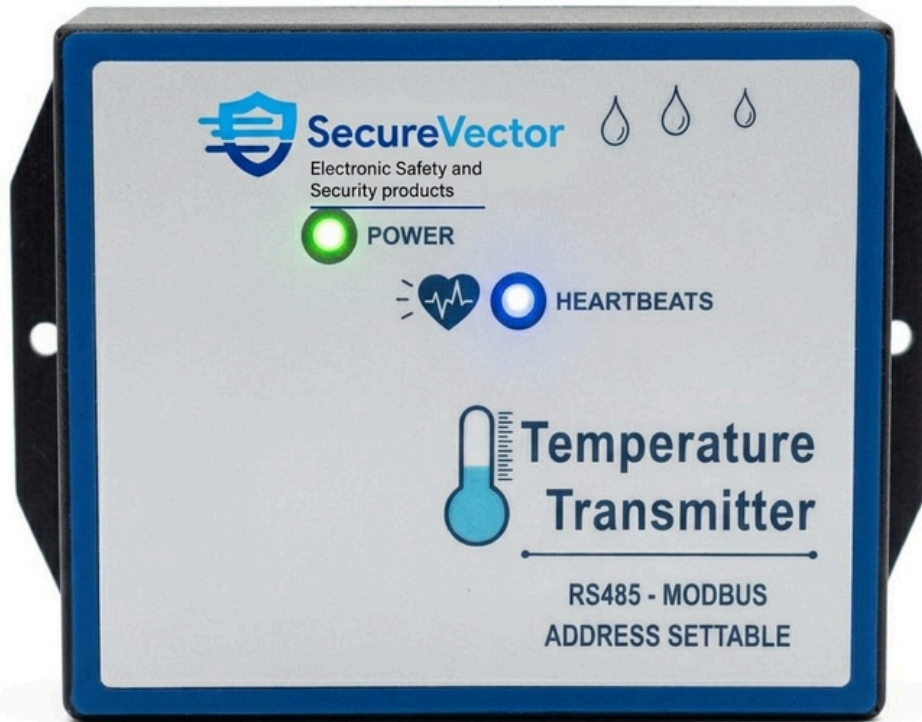
SVTS01
User Manual

+91-9664998039

www.securevector.in

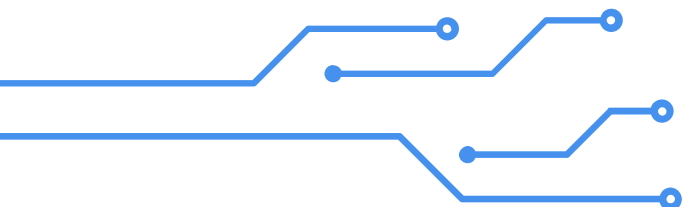
info@securevector.in





- **Product Name: RS485 MODBUS Temperature Transmitter**
- **Model: SVTS01**
- **Company Name: Secure Vector**

The MODBUS Temperature Transmitter is designed to measure and monitor the temperature of a specific room or location. It uses RS485 MODBUS communication to transmit temperature data to a connected computer or monitoring system. The device supports configurable addresses, allowing multiple transmitters to be used for monitoring different rooms.



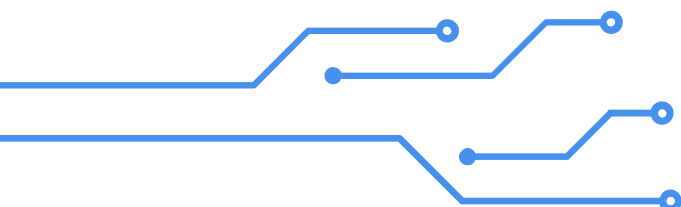
Key Features

- **Temperature Monitoring** – Measures and monitors the temperature of a specific room or location.
- **RS485 MODBUS Communication** – Enables reliable communication with a computer or monitoring system.
- **Address Setting** – Device address can be configured using the onboard DIP switch.
- **POWER Indicator** – Shows the power status of the device.
- **HEARTBEATS Indicator** – Indicates the operating/communication status of the device.
- **Multiple Device Support** – Multiple transmitters can be used to monitor different rooms.

Applications

The MODBUS Temperature Transmitter can be used for continuous temperature monitoring in:

- Server Rooms and Data Centers
- Industrial and Manufacturing Areas
- Cold Storage and Warehouses
- Electrical and Control Rooms
- HVAC and Building Management Systems
- Laboratories and Testing Areas
- Commercial and Office Buildings
- Multiple-Room Temperature Monitoring Systems



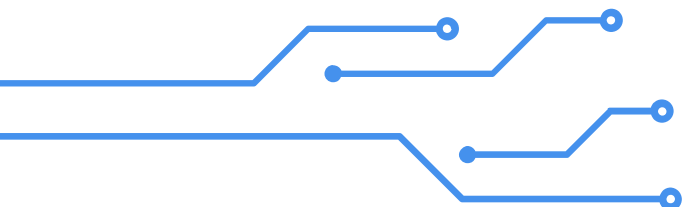
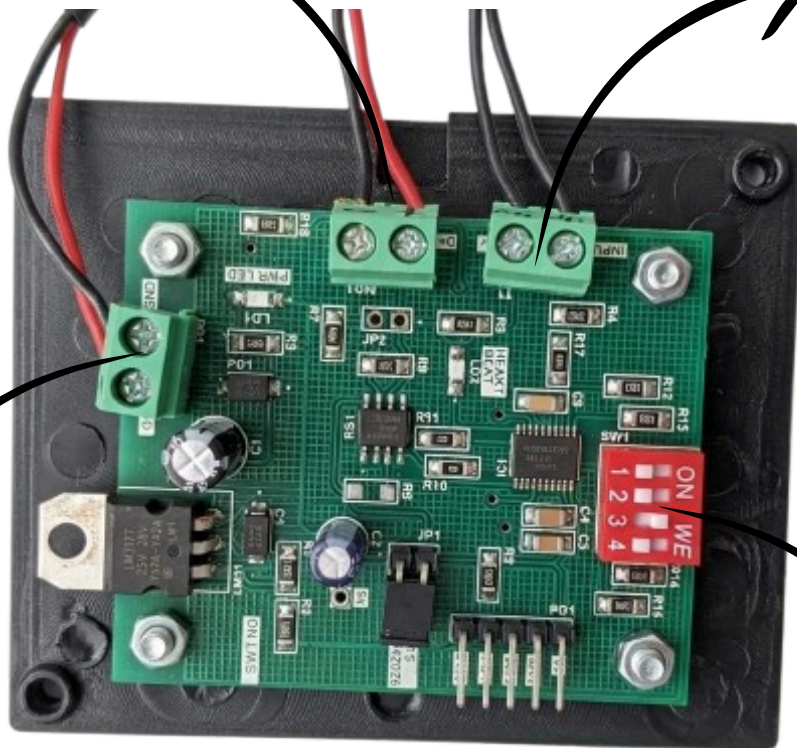
Device connection

Modbus connection
With computer

Temperature
Sensor
connection

12V DC
+/-

Address Selection
Switch

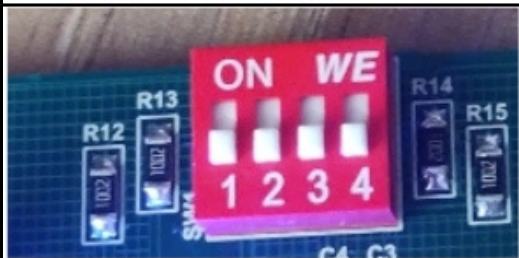
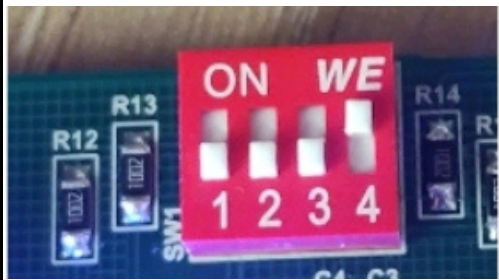
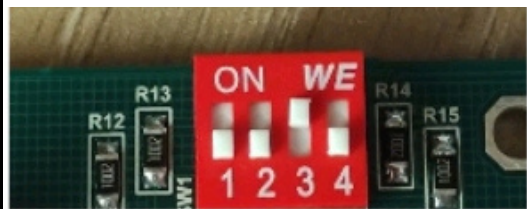


Addressable switch information



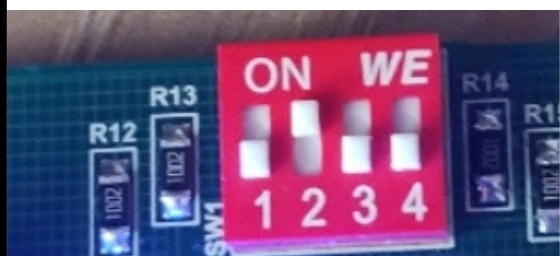
The Addressable Switch is used to set the Modbus device address of the temperature transmitter. The switch provides 15 different address selections. The selected address is entered in the Modbus software to identify and communicate with the corresponding

temperature transmitter. This allows the temperature of a specific room or location to be monitored easily when multiple transmitters are connected to the same Modbus network.

Addressable Switch Setting	Modbus Address
	1
	1
	2



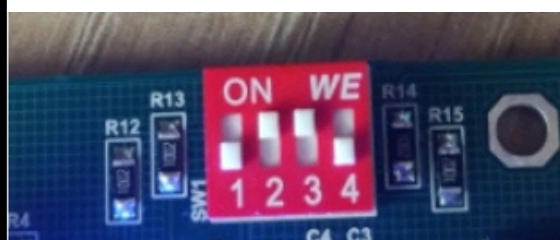
3



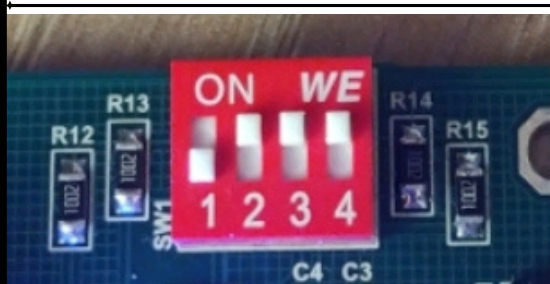
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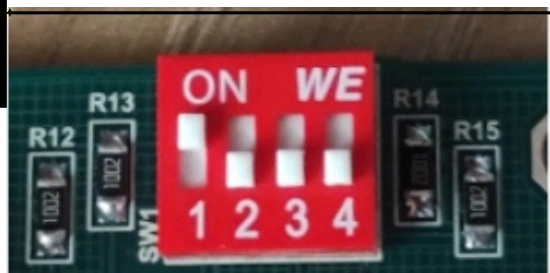
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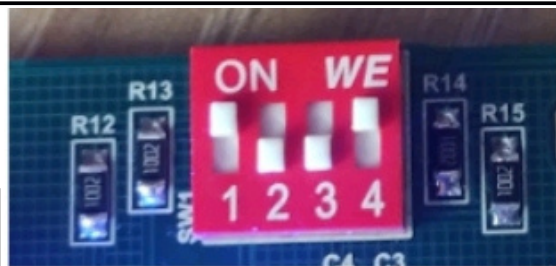
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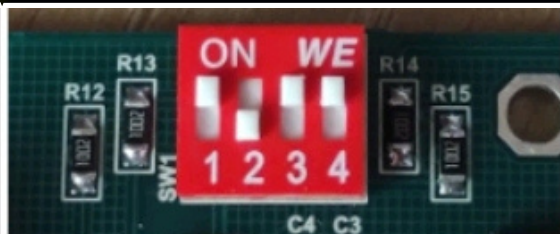
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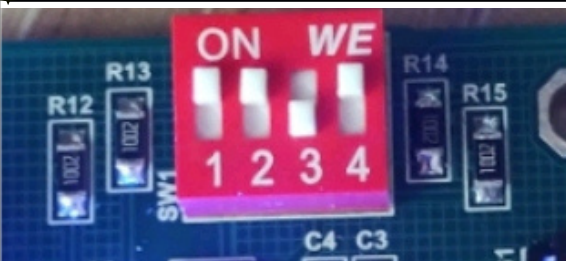
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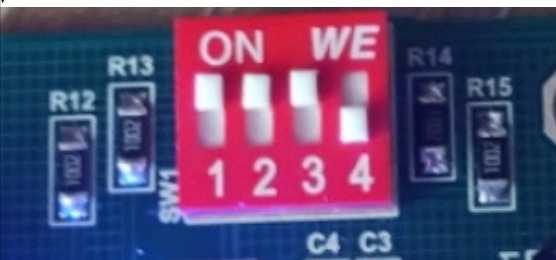
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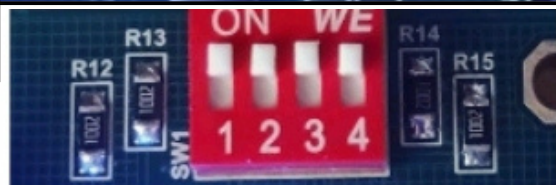
12



13



14



15

Modbus Software Configuration

After connecting the temperature transmitter to the Modbus communication interface, open the Modbus software and configure the required communication parameters.

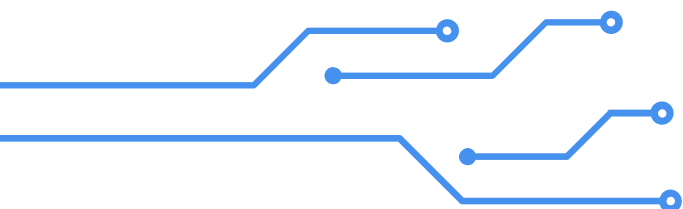
In the **View Data** section, enter the following settings:

- **Device Address:** Enter the Modbus address selected using the Addressable Switch on the temperature transmitter.
- **Example:** If the switch is set to Address 1, enter 1 in the Device Address field.
- **Data Type:** Select 4. Holding registers.
- **Start Address:** Enter 1.
- **Length:** Enter 2.
- **Scan Rate:** Set the required polling interval. In the example shown, it is 1000 ms.
- **Data Format:** Select Float.

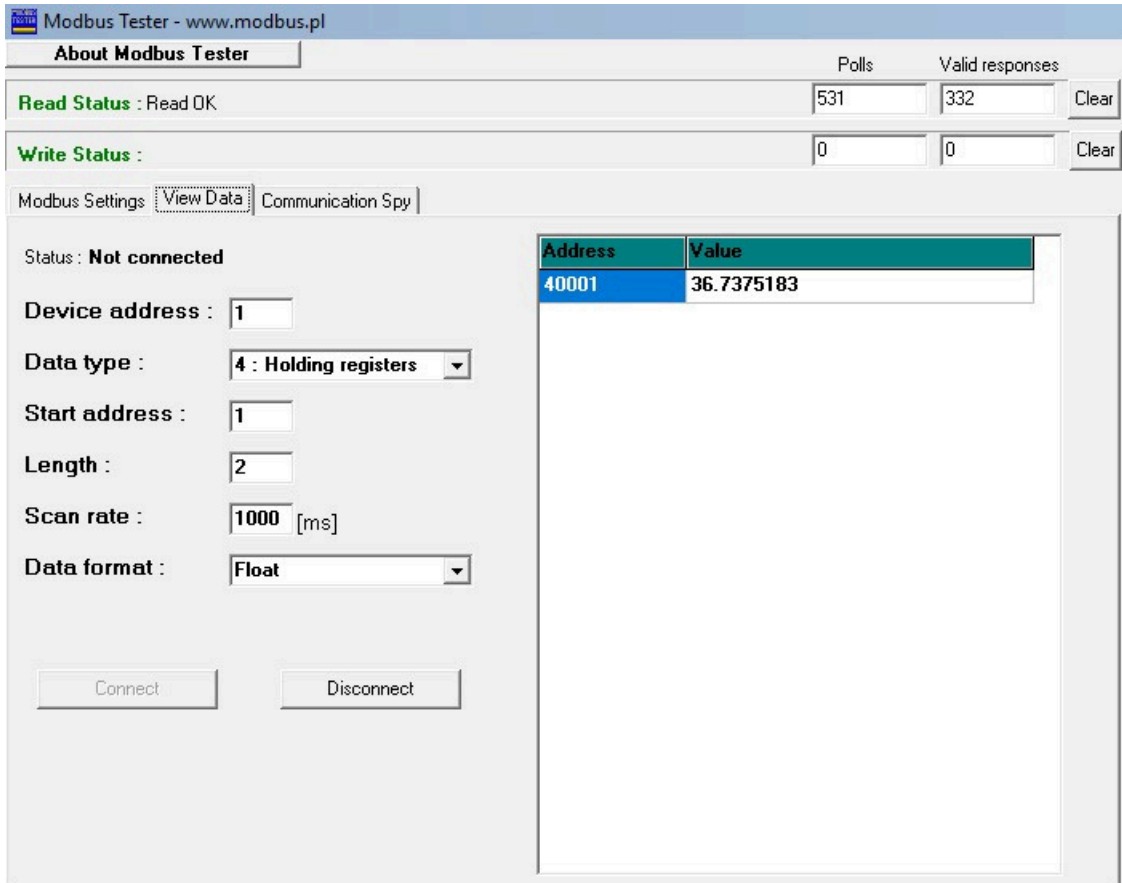
After entering the settings, connect the device. The software will read the temperature value from the transmitter and display it in the **Value column**.

In the example shown, the software displays **39.835022**, which represents the temperature value received from the transmitter.

(Example screenshot given below)



Ex.Modbus Software Screenshot device 1



Modbus Tester - www.modbus.pl

About Modbus Tester

Read Status : Read OK Polls: 531 Valid responses: 332 Clear

Write Status : 0 0 Clear

Modbus Settings View Data Communication Spy

Status : Not connected

Device address : 1

Data type : 4 : Holding registers

Start address : 1

Length : 2

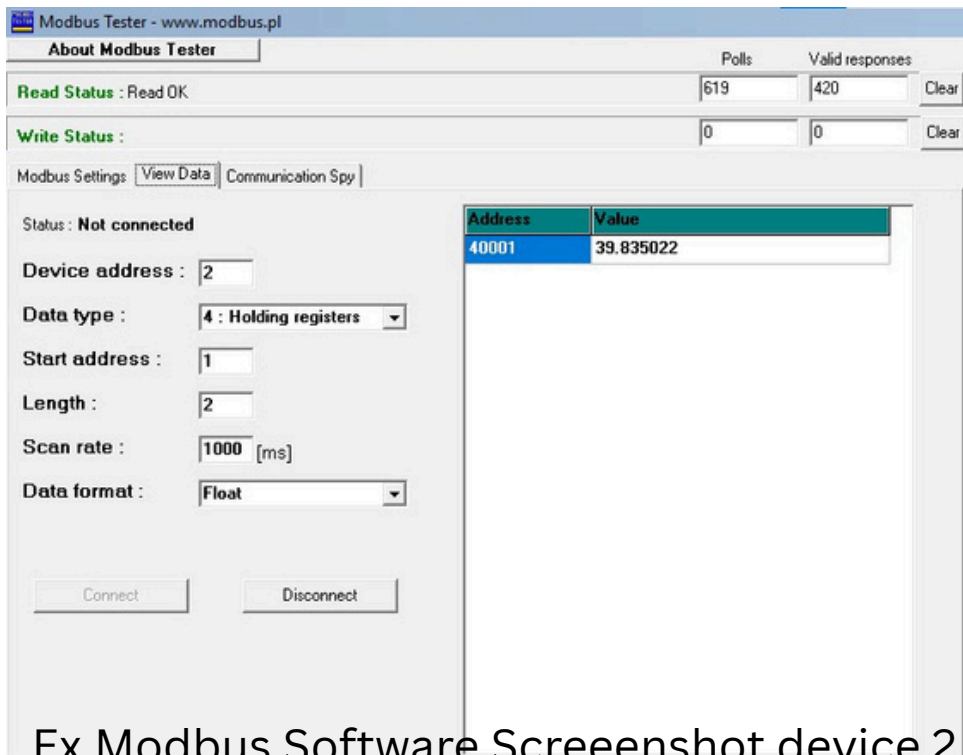
Scan rate : 1000 [ms]

Data format : Float

Connect Disconnect

Address	Value
40001	36.7375183

By changing the device address, you can view the temperature of another connected device.



Modbus Tester - www.modbus.pl

About Modbus Tester

Read Status : Read OK Polls: 619 Valid responses: 420 Clear

Write Status : 0 0 Clear

Modbus Settings View Data Communication Spy

Status : Not connected

Device address : 2

Data type : 4 : Holding registers

Start address : 1

Length : 2

Scan rate : 1000 [ms]

Data format : Float

Connect Disconnect

Address	Value
40001	39.835022

Ex.Modbus Software Screenshot device 2

Temperature Monitoring

The Modbus software continuously reads the temperature value from the connected temperature transmitter. The displayed value represents the measured temperature of the corresponding room or location.

Technical Support

Support:

Secure Vector

Website: securevector.in

Email: securevectorinfo@gmail.com

Phone: 9664998039

9326838046

9321995030

