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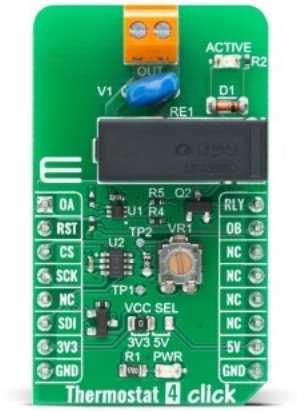
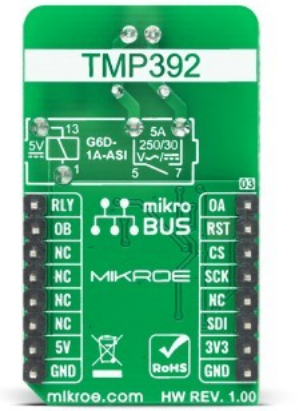
Thermostat 4 Click





PID: MIKROE-4194

Thermostat 4 Click is complete solution that senses the temperature of a physical system and can performs actions so that the system's temperature is maintained near a desired setpoint. It's based on Texas Instruments TMP392, a resistor programmable temperature switch that enable protection and detection of system thermal events from 30°C to 130°C. It offers dual overtemperature (hot and warm) detection. The trip temperatures option is programmed by changing trimmer resistance value for channel A and digital potentiometer resistance value over SPI interface for channel B. The Thermostat 4 Click also contains a high-quality relay from Omron, that can be used to open or close an electric circuit. Despite its small size, it can be used with voltage up to 30VDC/220AC and current up to 5A.

Thermostat 4 Click board™ is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

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Specifications

Type	Temperature & humidity
Applications	Thermostat 4 Click can be used for a wide range of applications that have to be thermally controlled: various home appliances, air conditioners, cooling fans, small heaters, etc
On-board modules	TMP392
Key Features	Dual outputs for overtemperature detection, Trip test function enables in-system testing, Resistor tolerances contribute zero error
Interface	GPIO,SPI
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

TMP392 datasheet

Thermostat 4 click 2D and 3D files

Thermostat 4 click schematic

Thermostat 4 click example on Libstock