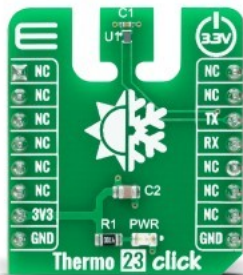


## Thermo 23 Click



PID: MIKROE-4979

**Thermo 23 Click** is a compact add-on board that provides an accurate temperature measurement. This board features the [TMP144](#), a high-precision digital temperature sensor from [Texas Instruments](#). The temperature sensor in the TMP144 is the chip itself, that houses temperature sensor circuitry, 12-bit analog-to-digital converter (ADC), a control logic, and a serial interface block in one package. Characterized by its high accuracy (up to  $\pm 0.5^{\circ}\text{C}$  typical) and high resolution of  $0.0625^{\circ}\text{C}$ , this temperature sensor provides temperature data to the host controller with a configurable interface which can be seen as both UART or SMAART Wire™ interface. This Click board™ is appropriate for thermal management of various consumer, industrial, and environmental applications with many temperature measurement zones that need to be monitored.

Thermo 23 Click 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.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.  
 ISO 14001: 2015 certification of environmental management system.  
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## Specifications

Type	Temperature & humidity
Applications	Can be used for thermal management of various consumer, industrial, and environmental applications with many temperature measurement zones that need to be monitored
On-board modules	TMP144 - high-precision digital temperature sensor from Texas Instruments
Key Features	Low power consumption, high precision, UART interface, temperature sensor in the TMP144 is the chip itself, resolution of 0.0625°C, shutdown and one-shot mode, high accuracy, and more
Interface	UART
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

## Downloads

[Thermo 23 click example on Libstock](#)

[Thermo 23 click 2D and 3D files](#)

[TMP144 datasheet](#)

[Thermo 23 click schematic](#)

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