

## Thermo 14 Click



PID: MIKROE-4132

Thermo 14 Click uses the STTS22H digital temperature sensor and thermal watchdog, which can measure temperature measurements between  $-40^{\circ}\text{C}$  and  $+125^{\circ}\text{C}$  so that the temperature measurement data can be processed by the host MCU. Thermo 14 Click provides an accuracy of  $\pm 0.5^{\circ}\text{C}$  in the range from  $-10^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ . The sensor used on this Click board™ has a great combination of features that make it a perfect choice for any temperature measurement application: low temperature drift, low power consumption, programmable alert engine, compact sensor size, critical temperature warnings, and more. The sensor itself requires almost no external components, which simplifies the design, reducing the cost and cutting the time to market.

Thermo 14 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 a rapid development and testing of various applications based on wearable devices, smart home automation, smartphones, HVAC, refrigerators, white goods, thermostats...
On-board modules	Thermo 14 Click uses the STTS22H IC, a high accuracy temperature sensor, from STMicroelectronics.
Key Features	Low temperature drift, low power consumption, programmable alert engine, compact sensor size, critical temperature warnings
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™ Standard specification](#)

[LibStock: mikroSDK](#)

[Click board catalog](#)

[Click boards™ Standard Page](#)

## Downloads

[Thermo 14 click 2D and 3D files](#)

[STTS22H datasheet](#)

[Thermo 14 click schematic](#)

[Thermo 14 click example on Libstock](#)

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