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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°C and +125°C so that the temperature measurement data can be processed by the host MCU. Thermo 14 Click provides an accuracy of ±0.5°C in the range from -10°C to 60°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.

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Specifications

Type	Temperature & humidity
Applications	can be used for a rapid development and testing of various applications based on wereable 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
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 14 click 2D and 3D files

STTS22H datasheet

Thermo 14 click schematic

Thermo 14 click example on Libstock