Thermo 29 Click

PID: MIKROE-5586

Thermo 29 Click is a compact add-on board for accurate temperature measurements. This board features the TMP126, a high-accuracy SPI-configurable digital temperature sensor from Texas Instruments. The TMP126 consists of an internal thermal BJT factory-calibrated sensor, 14-bit ADC, and a digital signal processor, offering a high accuracy of ±0.25°C and a temperature resolution of 0.03125°C per LSB. It also has a programmable alarm function that outputs an interrupt signal to the MCU when a specific temperature event occurs. This Click board™ is appropriate for the thermal management of portable electronics and industrial, consumer, and environmental applications.

Thermo 29 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 the thermal management of portable electronics and industrial, consumer, and environmental applications
On-board modules	TMP126 - digital output temperature sensor from Texas Instruments
Key Features	High accuracy, broad temperature range, high resolution, SPI interface, fast measurement intervals with no self-heating, advanced features for increased reliability, programmable alert, factory-calibrated, low power consumption, and more
Interface	SPI
ClickID	Yes
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

Downloads

[Thermo 29 click example on Libstock](#)

[Thermo 29 click 2D and 3D files](#)

[TMP126 datasheet](#)

[Thermo 29 click schematic](#)