

Thermo 28 Click



PID: MIKROE-5466

Thermo 28 Click is a compact add-on board that accurately measures temperature. This board features the [ams AG's AS6221](#), a high-accuracy digital temperature sensor. The AS6221 consists of a Si bandgap temperature factory-calibrated sensor, 16-bit ADC, and a digital signal processor, offering a high accuracy of $\pm 0.9^{\circ}\text{C}$. It provides temperature data to the host controller through a compatible I2C interface, reliability, user-selectable I2C addresses, and alert functionality, which triggers an interrupt to protect the device from excessive temperatures. This Click board™ can be used in applications with high measurement accuracy, such as measuring the skin temperature and replacing PTC resistors in various consumer and environmental applications.

Thermo 28 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 to replace PTC resistors in various consumer, and environmental applications
On-board modules	AS6221 - digital temperature sensor from ams AG
Key Features	Low power consumption, high precision, I2C interface, factory calibrated, high accuracy and resolution, high reliability and long-term stability, and more
Interface	I2C
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 28 Click example on Libstock](#)

[AS6221 datasheet](#)

[Thermo 28 click schematic](#)

[Thermo 28 click 2D and 3D files](#)

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