

Thermo 18 Click



PID: MIKROE-4829

Thermo 18 Click is a compact add-on board that provides an accurate temperature measurement. This board features the [WSEN-TIDS](#), a silicon-based, high-precision digital temperature sensor with embedded analog and digital signal processing unit from [Würth Elektronik](#). This temperature sensor, characterized by its high accuracy (up to ± 0.25 °C typical) and high resolution, provides factory-calibrated 16-bit temperature data to the host controller with a configurable I2C interface. It also comes with a programmable temperature threshold and an interrupt feature. This Click board™ is appropriate for industrial control, environmental monitoring, domestic appliances, HVAC systems, or other temperature measurement applications.

Thermo 18 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 industrial control, environmental monitoring, domestic appliances, HVAC systems, or other temperature measurement applications
On-board modules	WSEN-TIDS - silicon-based, high-resolution digital temperature sensor from Würth Elektronik
Key Features	Low power consumption, high accuracy, high resolution, output data rate up to 200Hz, programmable temperature threshold, and more
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 18 click 2D and 3D files](#)

[WSEN-TIDS datasheet](#)

[Thermo 18 Click schematic](#)

[Thermo 18 click example on Libstock](#)

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