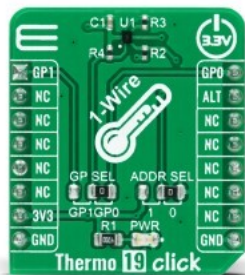


Thermo 19 Click



PID: MIKROE-4295

Thermo 19 Click is a compact add-on board that provides an accurate temperature measurement. This board features the [MAX31825](#), a temperature sensor that provides 8-bit to 12-bit Celsius temperature measurements with better than $\pm 1.75^{\circ}\text{C}$ from -45°C to $+145^{\circ}\text{C}$ from [Analog Devices](#). It has a unique 64-bit serial code stored in an on-chip ROM, an alarm output for detection of temperature faults, temperature resolution selection from 8 to 12 bits, and it allows temperature conversion to 10-bit digital word in a period of 80ms (max). This Click board™ makes a perfect choice for industrial control, in communication and data center equipment, or in any other temperature measurement applications.

Thermo 19 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, in communication and data center equipment, or in any other temperature measurement applications.
On-board modules	Thermo 19 Click is based on the MAX31825, a digital thermometer that provides 12-bit temperature measurements and communicates over a 1-Wire interface from Maxim Integrated.
Key Features	Better accuracy, alarm function for detection of temperature faults, selectable temperature resolution, wide temperature measurement range, can be powered from the data line, and more.
Interface	1-Wire
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 19 click example on Libstock](#)

[Thermo 19 click 2D and 3D files](#)

[MAX31825 datasheet](#)

[Thermo 19 click schematic](#)

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