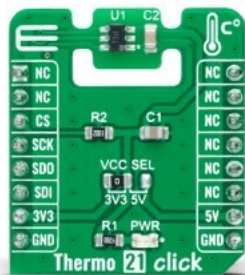


Thermo 21 Click



PID: MIKROE-4879

Thermo 21 Click is a compact add-on board that provides an accurate temperature measurement. This board features the [ADT7301](#), a high-precision digital temperature sensor from [Analog Devices](#). The ADT7301 houses an on-chip temperature sensor, a 13-bit A/D converter, a reference circuit, and serial interface logic functions in one package. Characterized by its high accuracy (up to $\pm 0.5^{\circ}\text{C}$ typical) and high resolution of 0.03125°C , this temperature sensor provides temperature data to the host controller with a configurable SPI interface. This Click board™ is appropriate for process control, environmental monitoring, domestic appliances, electronic test equipment, or other temperature measurement applications.

Thermo 21 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 process control, environmental monitoring, domestic appliances, electronic test equipment, or other temperature measurement applications |
| On-board modules | ADT7301 - high-precision digital temperature sensor from Analog Devices |
| Key Features | Low power consumption, high precision and accuracy, 13-bit temperature-to-digital converter, 0.03125°C temperature resolution, SPI compatible serial interface, Shutdown mode, and more |
| Interface | SPI |
| 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 21 click 2D and 3D files](#)

[Thermo 21 click schematic](#)

[ADT7301 datasheet](#)

[Thermo 21 click example on Libstock](#)

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