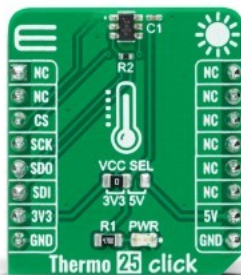


Thermo 25 Click



PID: MIKROE-5335

Thermo 25 Click is a compact add-on board that accurately measures temperature. This board features the [TMP127-Q1](#), a high-precision digital temperature sensor from [Texas Instruments](#). This SPI-configurable factory-calibrated temperature sensor has a high accuracy of 0.8°C, supporting an ambient temperature range from -55°C to 175°C. It features a 14-bit signed temperature resolution (0.03125 °C per LSB) while operating over a supply range. This Click board™ is appropriate for thermal management of various automotive, industrial, and environmental applications.

Thermo 25 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 thermal management of various automotive, industrial, and environmental applications
On-board modules	TMP127-Q1 - digital output temperature sensor from Texas Instruments
Key Features	Low power consumption, high precision and accuracy, factory-calibrated, 14-bit temperature-to-digital converter, 0.03125°C temperature resolution, SPI compatible serial interface, Shutdown mode, and more
Interface	SPI
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™](#)

Downloads

[Thermo 25 click example on Libstock](#)
[TMP127-Q1 datasheet](#)
[Thermo 25 click 2D and 3D files](#)
[Thermo 25 click schematic](#)

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