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VAT: SR105917343 Registration No. 20490918
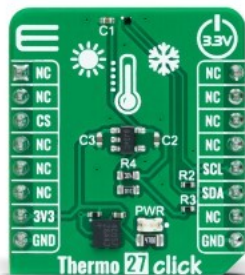Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
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Thermo 27 Click

PID: MIKROE-5509

Thermo 27 Click is a compact add-on board that accurately measures temperature. This board features the TMP114, a high-accuracy digital temperature sensor from Texas Instruments. The TMP114 consists of an internal thermal BJT factory-calibrated sensor, 16-bit ADC, and a digital signal processor, offering a high accuracy of ±0.3°C and a temperature resolution of 0.0078°C. This I2C-configurable factory-calibrated temperature sensor has a high accuracy of ±0.3°C, supporting high reliability and an ambient temperature range from -10°C to 85°C. This Click board™ is appropriate for the thermal management of portable electronics and industrial, consumer, and environmental applications.

Thermo 27 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.

Specifications

Type	Temperature & humidity
Applications	Can be used for the thermal management of portable electronics and industrial, consumer, and environmental applications
On-board modules	TMP114 - digital output temperature sensor from Texas Instruments
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 27 click example on Libstock

AP7331 datasheet

TMP114 datasheet

Thermo 27 click schematic

Thermo 27 click 2D and 3D files