MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
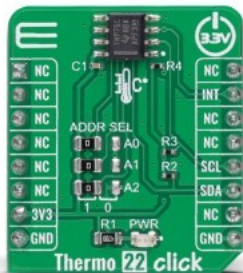Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
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# Thermo 22 Click

PID: MIKROE-5068

**Thermo 22 Click** is a compact add-on board that provides an accurate temperature measurement. This board features the TMP75C, a high-precision digital temperature sensor from Texas Instruments. The TMP75C houses an integrated digital temperature sensor with a 12-bit analog-to-digital converter (ADC), a reference circuit, and serial interface logic functions in one package. Characterized by its high accuracy (up to ±0.25°C typical) and high resolution of 0.0625°C, this temperature sensor provides temperature data to the host controller with a configurable I2C interface. This Click board™ is appropriate for thermal management and protection of various consumer, industrial, and environmental applications.

Thermo 22 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.

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# Specifications

| Type | Temperature & humidity |
|------|------------------------|
| Applications | Can be used for thermal management and protection of various consumer, industrial, and environmental applications |
| On-board modules | TMP75C - digital temperature sensor from Texas Instruments |
| Key Features | Low power consumption, high precision, overtemperature alert with programmable trip values, shutdown and one-shot mode, high accuracy, 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 22 click example on Libstock

TMP75C datasheet

Thermo 22 click 2D and 3D files

Thermo 22 click schematic