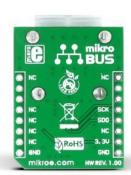


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www.mikroe.com

THERMO Click





PID: MIKROE-1197

THERMO Click is a compact add-on board that provides accurate temperature measurements. This board features the MAX31855K, a thermocouple-to-digital converter from Analog Devices, as well as a PCC-SMP connector for K-type thermocouple probe. Combination of MAX31855K and PCC-SMP connector results in high-accuracy temperature measurement in a temperature range between -270 and 1372°C with a sensitivity of about 41µV/°C. The device also contains cold-junction compensation sensing and correction providing temperature data to the host controller over an SPI interface (read-only). This Click board™ is suitable for thermostatic, process-control, monitoring applications, and many more.

THERMO Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This <u>Click board™</u> 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.







health and safety management system.



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Specifications

| Туре | Temperature & humidity |
|------------------|--|
| Applications | Can be used for thermostatic, process-control, monitoring applications, and more |
| On-board modules | MAX31855K - thermocouple-to-digital converter from Analog Devices |
| Key Features | Cold-junction compensation, 14-bit - 0.25°C resolution, detects thermocouple shorts to GND or VCC, on-board PCC-SMP connector for K-type thermocouple probes, high accuracy, low power consumption, and more |
| Interface | SPI |
| Compatibility | mikroBUS |
| Click board size | S (28.6 x 25.4 mm) |
| Input Voltage | 3.3V |

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Resources

<u>mikroBUS™</u>

Click board™ Catalog

Click Boards™

Downloads

THERMO click example on Libstock

MAX31855K datasheet

THERMO click schematic

THERMO click 2D and 3D files

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