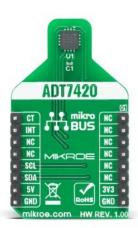


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## Surface temp Click





PID: MIKROE-4205

**Surface temp Click** is high accuracy digital temperature sensor Click board  $^{\text{m}}$ , offering breakthrough performance over a wide industrial range. It is equipped with the <u>ADT7420</u> - an accurate 16-Bit Digital I2C temperature sensor from <u>Analog Devices</u>. It features high temperature accuracy, ultralow temperature drift (0.0073°C), fast first temperature conversion on power-up, no temperature calibration/correction required, and more. This makes the Surface Temp Click board  $^{\text{m}}$  a great choice for RTD and thermistor replacement, medical equipment, food transportation and storage, environmental monitoring, HVAC, and other applications.

Surface temp Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board  $^{\text{m}}$  comes as a fully tested product, ready to be used on a system equipped with the mikroBUS  $^{\text{m}}$  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.





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## **Specifications**

Туре	Temperature
Applications	RTD and thermistor replacement, Thermocouple cold junction compensation, Medical equipment, Industrial control and test, Food transportation and storage, Environmental monitoring and HVAC, Laser diode temperature control. Programmable interrupts. Low power.
On-board modules	ADT7420
Key Features	High accuracy digital temperature sensor offering breakthrough performance over a wide industrial range. 16-bit ADC to monitor and digitize the temperature to 0.0078°C resolution.
Interface	I2C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

## **Resources**

mikroBUS™ Standard specification

Libstock: mikroSDK

Click board catalog

Click boards™ Standard Page

## **Downloads**

Surface Temp click example on Libstock

Surface Temp click 2D and 3D files

Surface Temp click schematic

ADT7420 datasheet

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