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Surface temp 2 Click

PID: MIKROE-4266

Surface temp 2 Click is a compact add-on board that contains a high accuracy temperature sensor offering breakthrough performance over a wide industrial temperature range. This board features the ADT7422, a 16-bit I2C temperature sensor from Analog Devices. It features the internal bandgap reference and a precision ADC, it provides a 16-bit temperature result with a resolution of 0.0078°C, and an accuracy of up to ±0.1°C across the temperature range of 25°C to 50°C without the need for calibration. This makes the Surface Temp Click an excellent choice for RTD and thermistor replacement, medical equipment, food transportation and storage, environmental monitoring, HVAC, and other applications.

Surface temp 2 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
Applications	Can be used for RTD and thermistor replacement, medical equipment, food transportation and storage, environmental monitoring, HVAC, and other applications.
On-board modules	Surface temp 2 Click is based on the ADT7422, a high accuracy 16-bit digital temperature sensor with programmable interrupt and critical temperature indicator from Analog Devices.
Key Features	Low power consumption, no calibration needed, long-term stability and reliability, high accuracy for industrial, instrumentation, and medical applications, and more.
Interface	I2C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

ADT7422 datasheet

Surface Temp 2 click 2D and 3D files

Surface Temp 2 click schematic

Surface Temp 2 click example on Libstock

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