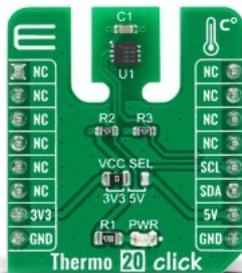# Thermo 20 Click

PID: MIKROE-4316

Thermo 20 Click is a compact add-on board that provides an accurate temperature measurement. This board features the TSYS03, a miniature digital temperature sensor that comes up with factory calibrated, highly accurate temperature data from TE Connectivity. This temperature sensor characterized by its accuracy and high resolution offers digital output with a configurable I2C interface, ensures lower conversion time with precise temperature sensing, and provides a low power consumption sensor suitable for battery-driven applications. This Click board™ is appropriate for industrial control, as a replacement of precision RTDs, thermistors, and NTCs, or in any other temperature measurement applications.

Thermo 20 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.

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
www.mikroe.com

Specifications

Type	Temperature & humidity
Applications	Can be used for industrial control, as a replacement of precision RTDs, thermistors, and NTCs, or in any other temperature measurement applications.
On-board modules	Thermo 20 Click is based on the TSYS03, an ultra-compact digital temperature sensor with precise digital output and low power consumption from.
Key Features	Low power consumption, high accuracy, high resolution, low conversion time with precise temperature sensing, and more.
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Thermo 20 click 2D and 3D files

Thermo 20 click example on Libstock

Thermo 20 click schematic

TSYS03 datasheet

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