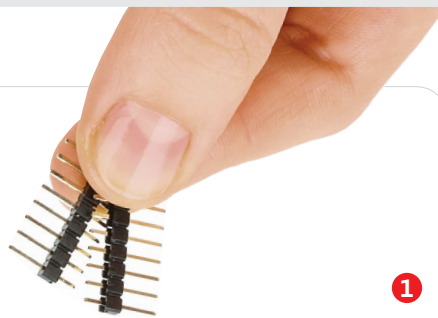


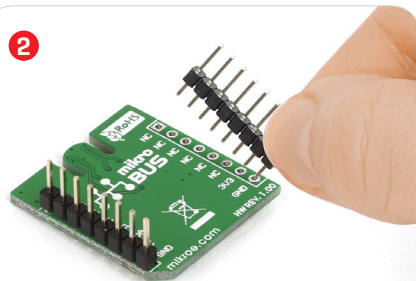
Thermo 3 click™

2. Soldering the headers

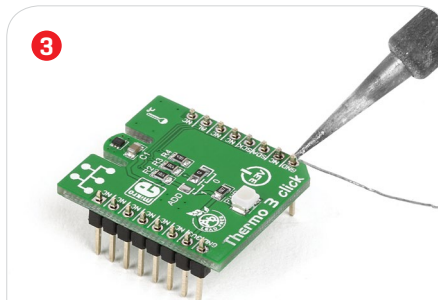
Before using your click™ board, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.



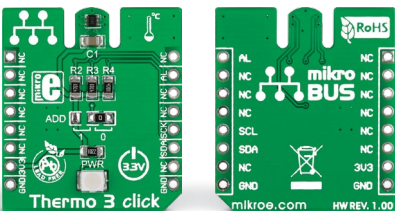
1



Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

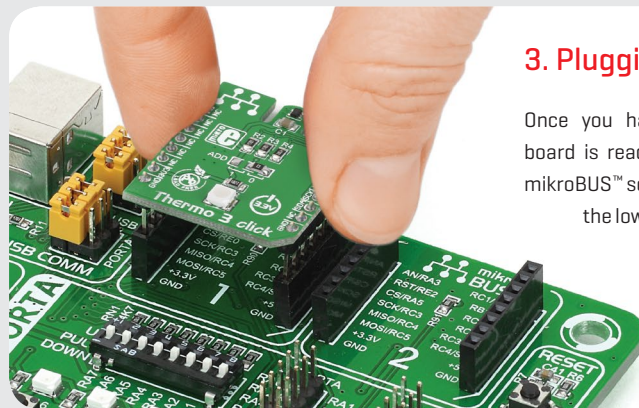


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



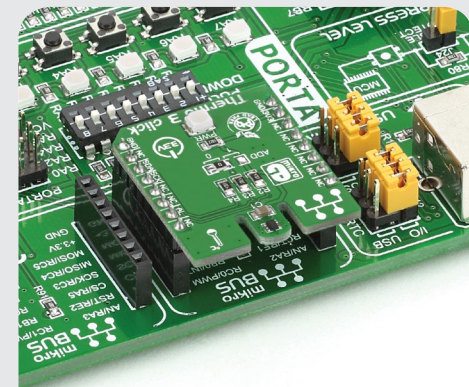
1. Introduction

Thermo 3 click™ carries **TMP102**, a digital temperature sensor IC with a tiny footprint of only 1.6mm x 1.6mm. Without requiring calibration, TMP102 is accurate within 0.5°C. Measurement range is between -25°C to 85°C. An integrated 12-bit ADC allows for measurement resolutions down to 0.0625°C. Thermo 3 click™ communicates with the target board MCU through **mikroBUS™** I²C pins (SCL, SDA), and an additional Alert pint (INT on the default mikroBUS™ configuration). The board is designed to use a 3.3V power supply only.



3. Plugging the board in

Once you have soldered the headers your board is ready to be placed into the desired mikroBUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS™ socket. If all the pins are aligned correctly, push the board all the way into the socket.



4. Essential features

Because of its accuracy, Thermo 3 click™ is ideal for thermal-management and thermal protection applications, especially for extended measurements (in thermostats, office machines, industrial instrumentation applications). You can set up an overtemperature alert using the ALERT pin [which sends an interrupt to the target board MCU]. The sensor creates a highly linear output and therefore simple to use.

click™
BOARD
www.mikroe.com



Thermo 3 click™ manual
ver 1.00



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