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Temp&Hum 23 Click





PID: MIKROE-5301

Temp&Hum 23 Click is a compact add-on board representing temperature and humidity sensing solution. This board features the <u>SHT45</u>, a 4th generation ultra-low-power relative humidity and temperature sensor from <u>Sensirion</u>. The SHT45 is characterized by its high accuracy ($\pm 1\%$ RH and $\pm 0.1^{\circ}$ C over a wide operating temperature range) and high resolution providing 16-bit data to the host controller with a configurable I2C interface. Also, it is designed for reliable operation in harsh conditions such as condensing environments. This Click board is perfectly suitable for high-volume applications.

Temp&Hum 23 Click is supported by a $\underline{\mathsf{mikroSDK}}$ compliant library, which includes functions that simplify software development. This $\underline{\mathsf{Click}}$ board $\underline{\mathsf{mikroSDK}}$ comes as a fully tested product, ready to be used on a system equipped with the $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ 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.





health and safety management system.



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Specifications

Туре	Temperature & humidity
Applications	Can be used for high-volume applications
On-board modules	SHT45 - relative humidity and temperature sensor from Sensirion
Key Features	Low power consumption, high accuracy, covers extended operating humidity and temperature ranges, internal heater, fully functional in condensing environment, fast data transfer, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

www.mikroe.com

Resources

<u>mikroBUS</u>™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

Temp&Hum 23 click example on Libstock

SHT45-AD1B-R2 datasheet

Temp&Hum 23 click 2D and 3D files

Temp&Hum 23 click schematic

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