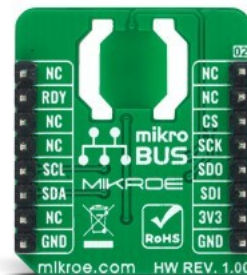


# Temp&Hum 16 Click



PID: MIKROE-4733

**Temp&Hum 16 Click** is a compact add-on board that represents temperature and humidity sensing solutions. This board features the [WSEN-HIDS \(2525020210001\)](#), a MEMS-based capacitive humidity sensor with an integrated ASIC and I2C and SPI serial communication from [Würth Elektronik](#). A silicon-based temperature sensor is also integrated within the same package. ASIC contains the multiplier, operational amplifier, analog-to-digital converter, and other signal conditioning blocks like controller logics and interrupts. It converts the analog signal from humidity and temperature sensing elements into 16-bit digital humidity and temperature values. The WSEN-HIDS is factory calibrated for both humidity and temperature measurements with no further calibration required. This Click board™ is an ideal solution to be used in various temperature and humidity-related applications.

Temp&Hum 16 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.

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.



ISO 27001: 2013 certification of informational security management system.  
ISO 14001: 2015 certification of environmental management system.  
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## Specifications

Type	Temperature & humidity
Applications	This Click board™ is an ideal solution to be used in various temperature and humidity-related applications
On-board modules	WSEN-HIDS (2525020210001) - MEMS-based capacitive humidity sensor with an integrated ASIC and I2C and SPI serial communication from Würth Elektronik
Key Features	Low power consumption, high performance, digital output interface, embedded temperature sensor for ambient temperature measurement, fully calibrated, and more.
Interface	I2C,SPI
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[Temp&Hum 16 click 2D and 3D files](#)

[Temp&Hum 16 click schematic](#)

[WSEN-HIDS\(282525020210001\) datasheet](#)

[Temp&Hum 16 click example on Libstock](#)

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