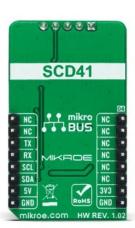


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HVAC Click





PID: MIKROE-4290

HVAC Click is a compact add-on board that contains Sensirion's next-generation miniature CO2 sensor. This board features the <u>SCD41</u>, a carbon dioxide sensor build on the photoacoustic sensing principle, and Sensirion's patented PASens® and CMOSens® technology to offer high accuracy at a minor form factor. On-chip signal compensation is realized with the build-in humidity and temperature sensor. It operates within a specified range from 400 to 5'000 ppm, configurable through the I2C interface with a single shot mode supported. This Click board™ is also suitable for indoor air quality applications using an additional SPS30 that allows smart ventilation systems to regulate ventilation in the most energy-efficient and human-friendly way, maintaining low CO2 concentration for a healthy, productive environment.

HVAC 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.







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Specifications

Туре	Environmental,Gas
Applications	Can be used for indoor air quality applications and in smart ventilation systems to regulate ventilation in the most energy-efficient and human-friendly way, maintaining low CO2 concentration for a healthy, productive environment
On-board modules	SCD41 - Sensirion's next-generation miniature CO2 sensor
Key Features	Low power consumption, high accuracy, photoacoustic sensor technology PASens®, integrated temperature, and humidity sensor, additional connection to SPS30 particulate matter sensor, and more.
Interface	I2C,UART
ClickID	No
Compatibility	mikroBUS™
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

<u>mikroSDK</u>

Click board™ Catalog

Click boards™

Downloads

HVAC click 2D and 3D files

SCD41 datasheet

SPS30 datasheet

HVAC click schematic

HVAC click example on Libstock

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health and safety management system.