

CO2 Click



PID: MIKROE-4725

CO2 Click is a compact add-on board that contains [Sensirion's](#) miniature CO2 sensor. This board features the STC31, a gas concentration sensor designed for high-volume applications. The STC31 utilizes a revolutionized thermal conductivity measurement principle, which results in superior repeatability and long-term stability. The outstanding performance of these sensors is based on Sensirion's patented CMOSens® sensor technology, which combines the sensor element, signal processing, and digital calibration on a small CMOS chip. It features a digital I2C interface, which makes it easy to connect directly to MCU. This Click board™ represents an ideal choice for health, environmental, industrial, residential monitoring of high CO2 concentrations and applications where reliability is crucial.

CO2 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	Gas
Applications	Can be used for health, environmental, industrial, residential monitoring of high CO2 concentrations and applications where reliability is crucial
On-board modules	STC31 - gas concentration sensor for high range, accurate CO2 measurements designed for high-volume applications from Sensirion
Key Features	Low power consumption, high reliability and long-term stability, best signal-to-noise ratio, industry-proven technology with a track record of more than 15 years, high process capability, and more
Interface	I2C
ClickID	No
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

[STC31 datasheet](#)

[CO2 click 2D and 3D files](#)

[CO2 click schematic](#)

[CO2 click example on Libstock](#)

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