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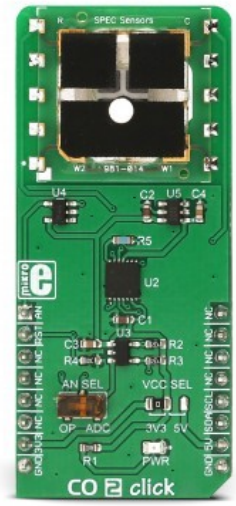
CO 2 Click



PID: MIKROE-3196

CO 2 click is a very accurate, carbon-monoxide-gas-sensor Click board™, equipped with the SPEC amperometric, 3SP CO 1000 gas sensor which electrochemically reacts with the carbon monoxide (CO). It is supported by the LMP91000, a high-precision integrated analog front-end IC (AFE), perfectly suited for use in electrochemical, sensing applications. The Click board™ also provides the reference voltage required by the sensor and it offers a choice between the analog output from the AFE IC buffered with the low noise op-amp, and the digital output from the 12-bit SAR A/D converter.

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Specifications

Type	CO,Gas
Applications	It can be used for various air quality applications, air purification and conditioning, carbon-monoxide warning applications, and similar.
On-board modules	3SP CO 1000, a CO gas sensor, by SPEC sensors, LMP9100SD, an integrated AFE for chemical sensing applications, MCP3221, a 12-bit SAR ADC from Microchip, OPA344, an operational amplifier from Texas Instruments, MCP1501, a high precision buffered reference, from Microchip
Key Features	High accuracy and repeatability of the measurements, ability to obtain measurement data in both analog and digital form, low cross-sensing for other gases, rapid response time, long lifecycle of the CO sensor
Interface	Analog,I2C
ClickID	No
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

LMP91000 datasheet

MCP3221 datasheet

CO SPEC sensor datasheet

CO 2 click 2D and 3D files

CO 2 click schematic

CO 2 click example on Libstock