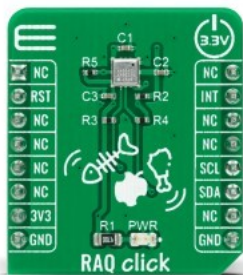


RAQ Click



PID: MIKROE-4385

RAQ Click is a compact add-on board targeted for use in refrigeration air quality (RAQ) applications. This board features the ZMOD4450, a gas sensor module designed for detecting gases associated with food ripening or rotting from Renesas Electronics Corporation. The module's sense element consists of a heater element on a silicon-based MEMS structure and a metal temperature sensor. It measures the MOx conductivity, which is a function of the gas concentration, and measurement results read via the I2C interface. This Click board™ makes an excellent choice for various applications like refrigerator systems control or as monitors for fruit and vegetable quality, shipping, and storage conditions.

RAQ 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 various applications like refrigerator systems control or as monitors for fruit and vegetable quality, shipping, and storage conditions.
On-board modules	RAQ Click is based on the ZMOD4450, a gas sensor module designed to detect typical gases inside refrigeration applications associated with food ripening or rotting from Renesas Electronics Corporation.
Key Features	Low power consumption, excellent choice for low-voltage and low-power battery applications, measurement of gases associated with food ripening and storage, configurable methods of operation, built-in nonvolatile memory, and more.
Interface	I2C
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

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

[ZMOD4450 datasheet](#)

[RAO click example on Libstock](#)

[RAO click schematic](#)

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