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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.

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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
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

RAQ click 2D and 3D files

ZMOD4450 datasheet

RAQ click example on Libstock

RAQ click schematic