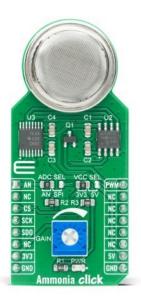


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Ammonia Click





PID: MIKROE-4151

Ammonia Click is an Ammonia detection (NH3) sensor, based on the MQ-137 gas sensor. This gas sensor has a sensitive layer made of SnO2, which changes its resistance when exposed to ammonia. The sensor is able to sense NH3 concentration in the range of 5 ppm to 200 ppm. The Click board $^{\text{m}}$ is also equipped with a trimmer potentiometer, used to adjust the sensitivity and offset of the MQ-137 sensor.

Ammonia Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board $^{\text{TM}}$ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS $^{\text{TM}}$ 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	Gas
Applications	It can be used in different Ammonia concentration detectors for air quality control, or for gas leak detection.
On-board modules	Ammonia Click uses the MQ-137, a high accuracy Ammonia sensor, from Hanwei Electronics.
Key Features	5 ppm to 200 ppm range of NH3 concentration sensing, integrated PWM-controlled heating element, protected against particles and mechanical damage.
Interface	GPIO,SPI,Analog
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™ Standard specification

LibStock: mikroSDK

Click board catalog

Click boards™ Standard Page

Downloads

Ammonia click example on Libstock

Ammonia click 2D and 3D files

Ammonia click schematic

MO-137 datasheet

