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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. This Click board™ is also equipped with a trimmer potentiometer, used to adjust the sensitivity and offset of the MQ-137 sensor, making it well suited for the detection of ammonia, which may cause severe health disorders in the human body.

Ammonia 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	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	Analog,GPIO,SPI
ClickID	No
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™
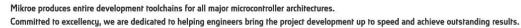
mikroSDK

Click board™ Catalog

Click boards™

Downloads

Ammonia click example on Libstock

Ammonia click 2D and 3D files

Ammonia click schematic

MQ137 datasheet

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).