

## Ammonia Click



PID: MIKROE-4151

**Ammonia Click** is an Ammonia detection (NH<sub>3</sub>) sensor, based on the MQ-137 gas sensor. This gas sensor has a sensitive layer made of SnO<sub>2</sub>, which changes its resistance when exposed to ammonia. The sensor is able to sense NH<sub>3</sub> concentration in the range of 5 ppm to 200 ppm. The Click board™ 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™ 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	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](#)

[MQ-137 datasheet](#)

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