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Ammonia Click





PID: MIKROE-4151

Ammonia Click is an Ammonia detection (NH3) sensor, based on the $\underline{MQ-137}$ 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 boardTM 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 $^{\text{\tiny M}}$ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS $^{\text{\tiny M}}$ socket.

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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	Analog,GPIO,SPI
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™

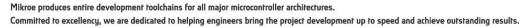
Downloads

Ammonia click example on Libstock

Ammonia click 2D and 3D files

Ammonia click schematic

MQ137 datasheet







health and safety management system.

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