

PRODUCT DATASHEET



Ammonia Sensor MQ137 Breakout

333113

The MQ137 sensor detects ammonia levels with high sensitivity, ideal for gas leakage detection and environmental monitoring.

Full product documentation, files and tutorials: solde.red/333113

CORE ATTRIBUTES

SKU 333113

WEIGHT 10 g

BARCODE 732388667109

DESCRIPTION

The MQ137 sensor's sensitivity and selectivity allow it to effectively detect and measure ammonia levels, making it a valuable tool for applications such as gas leakage detection, agricultural monitoring, and environmental sensing. By integrating the MQ137 sensor with appropriate electronic circuits and microcontrollers like Dasduino, you can create systems that provide real-time monitoring and prompt alerts in the presence of hazardous ammonia concentrations. It takes a short time to heat up in order to work correctly.

The breakout board works with both digital (DO) and analog signals (AO). The digital output is obtained by setting a threshold value with a potentiometer. The analog output will differ depending on the intensity of the gas.

Product usage tips:

When gas is detected, the LED will start glowing. It will remain off if it doesn't detect anything. Two mounting holes enable easy mounting to surfaces. The board comes with four male headers that need to be soldered.

TECHNICAL DETAILS

- **Voltage:** 5V
- Digital(HIGH/LOW) and analog(0V-5V) output
- With LM393 comparator
- **Dimensions:** 22 × 38 mm / 0.9 × 1.5 inch

SPECIFICATIONS

INTERFACE

Analog, Digital Gpio

QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes
MEASUREMENT TYPES	Gas
IC PART NUMBER	MQ137
SUPPLY VOLTAGE MIN V	5
SUPPLY VOLTAGE MAX V	5
LOGIC LEVEL	5V Only

LINKS

Open Source Hardware Files	https://github.com/SolderedElectronics/Ammonia-sensor-MQ137-breakout-hardware-design
Full Documentation	https://docs.soldered.com/mq/overview/
Arduino: Get Started	https://docs.soldered.com/mq/arduino/getting-started/
Hardware Details	https://docs.soldered.com/mq/hardware/
Arduino Library Documentation	https://docs.soldered.com/mq/arduino/initialization-native/
Pinout	https://cms.soldered.com/products/333113/media/333113_pinout-png_567a95.svg

GALLERY

