

PRODUCT DATASHEET



Hydrogen Sensor MQ8 Breakout

333108

The MQ8 Hydrogen Sensor Breakout detects hydrogen gas from 100-10000 ppm, ensuring safety against leaks in various environments.

Full product documentation, files and tutorials: solde.red/333108

CORE ATTRIBUTES

SKU 333108

WEIGHT 10 g

BARCODE 732388667505

DESCRIPTION

Hydrogen is all around us, and it's very flammable. Its leakage can be very dangerous to both life and property. That's why it's important to detect any leakage to prevent in the industry. To help with that, hydrogen sensors like the MQ8 breakout board are used. The sensor detects hydrogen at the range of 100-10000 ppm.

The digital and analog outs are on the breakout through-hole pins. They are marked as DO and AO respectively. By setting a threshold value with a potentiometer, you can get the digital output. The analog output will depend on how much gas is detected around the sensor.

Product usage tips:

The sensor needs 48 hours to preheat to optimal working temperature. The LED on the board will remain off if it detects no gas, and will glow once it does. Two mounting holes allow you to easily secure the board in place. The four pins provided need to be soldered.

Due to its long life, you won't have to worry about changing the sensor often. To prevent damage to the sensor, do not submerge it underwater or freeze it. It will be weakened by highly corrosive gases as well.

TECHNICAL DETAILS

- **Logic voltage level:** 5V
- **Operating voltage:** 5V
- **Operating temperature:** -10°C to 50°C (14 to 122 °F)
- **Gas detection:** hydrogen
- **Gas detection range:** 100-10000 ppm
- **Preheat time:** 48 hours
- **Mounting holes:** 2
- **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	MQ8
SUPPLY VOLTAGE MIN V	5
SUPPLY VOLTAGE MAX V	5
LOGIC LEVEL	5V Only

LINKS

Open Source Hardware Files	https://github.com/SolderedElectronics/Hydrogen-sensor-MQ8-breakout-hardware-design
mim_package	https://checkmim.com/packages/solderedelectronics+Soldered-MQ8Sensors-MicroPython-Library
MicroPython Module	https://github.com/SolderedElectronics/Soldered-MQ8Sensors-MicroPython-Library
Full Documentation	https://docs.soldered.com/mq/overview/
Pinout	https://cms.soldered.com/products/333108/media/333108_pinout-png_c5efac.jpg

GALLERY

