

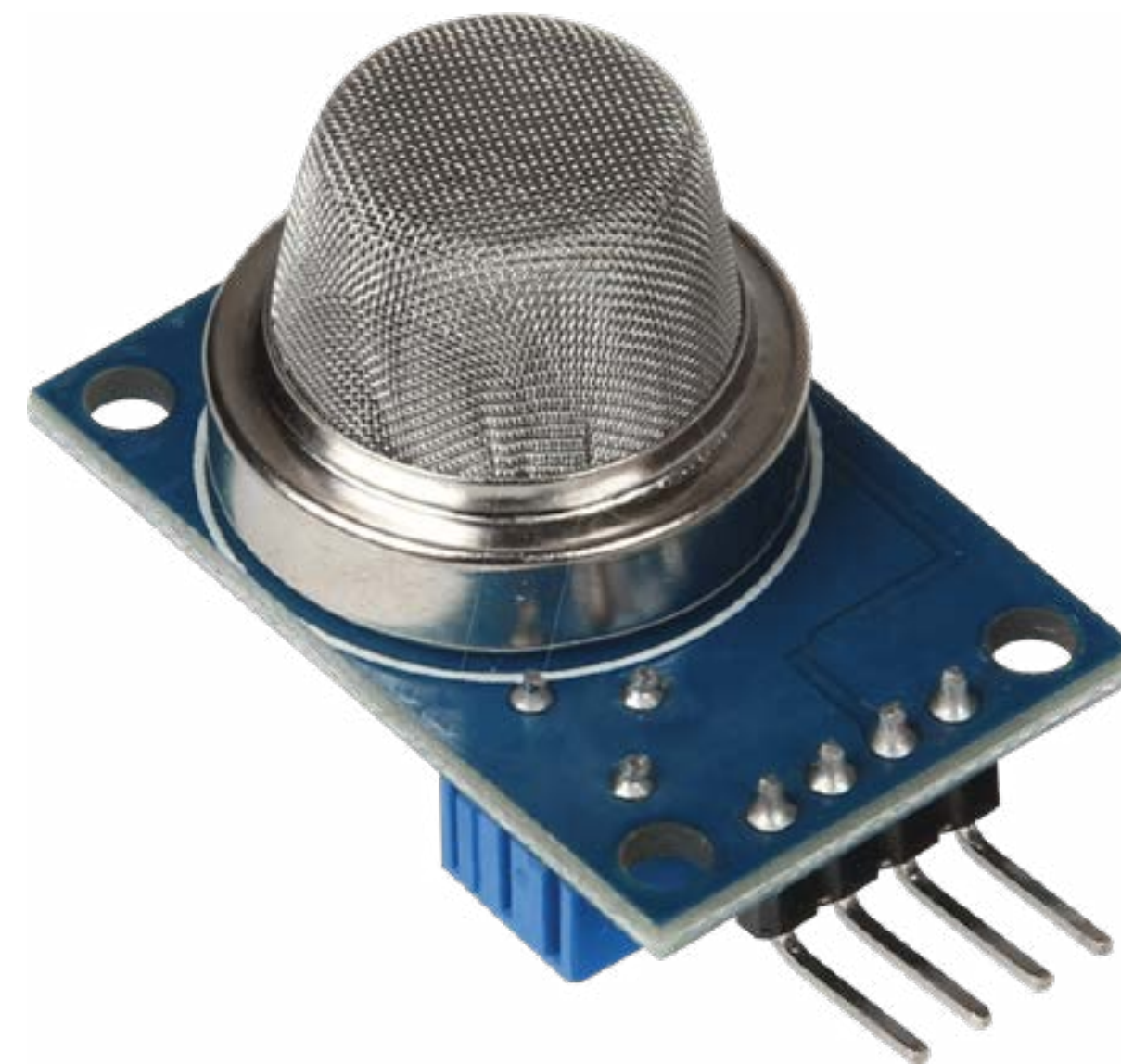
DOCUMENTATION

ACTIVITY

ASSESSMENT

USEFUL LINKS

HOW TO USE A GAS / Smoke Sensor MQ2



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WHAT IT IS?

The MQ2 is a gas sensor that detects the presence of certain gases by changing its internal resistance.

It's a chemiresistor, meaning its electrical resistance changes when exposed to specific gases.

Commonly used in safety and home automation projects for detecting leaks and smoke.

HOW IT WORKS?

This sensor can detect these gases when their concentrations are between 200 and 10,000 parts per million (ppm).

Note: The sensor becomes very hot after a while, don't touch it!



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WHICH GAS?

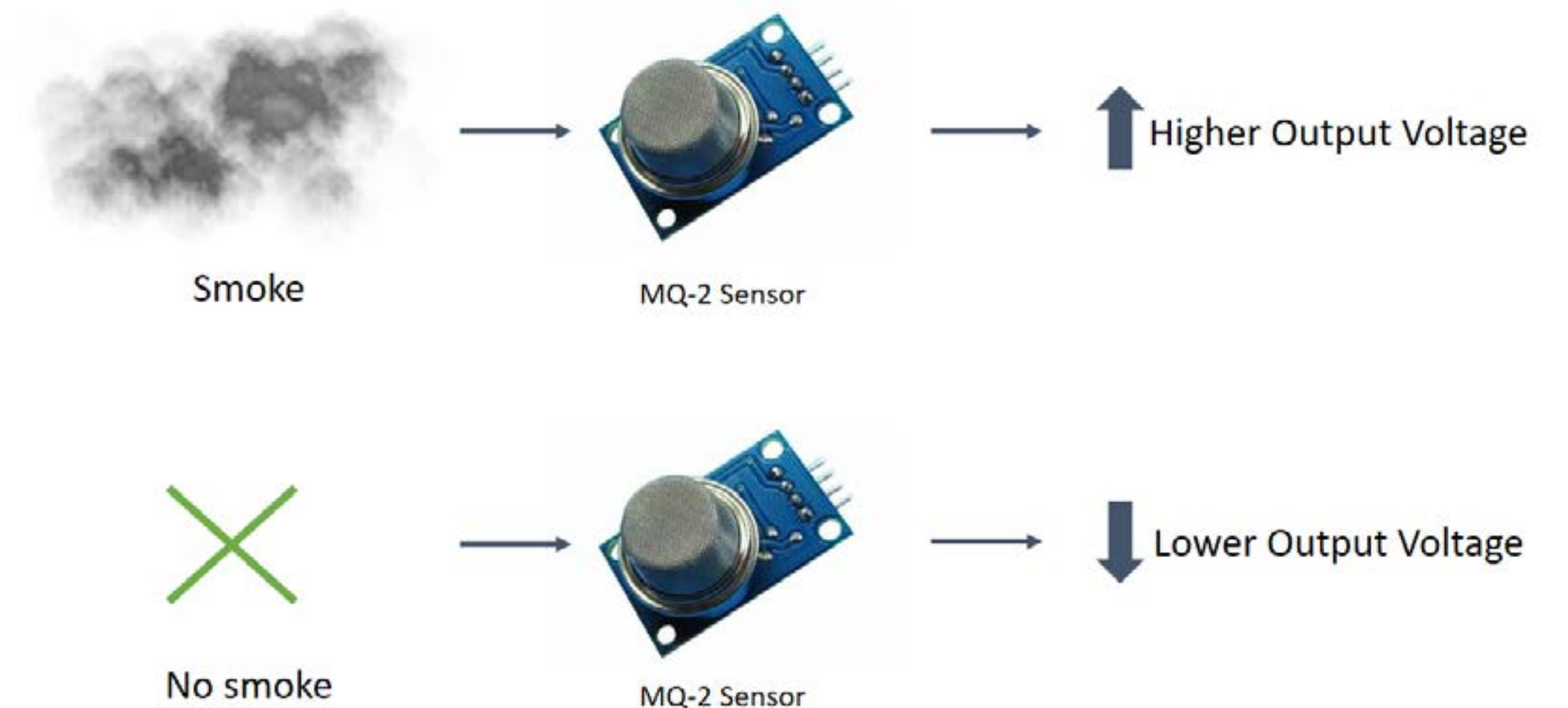
It can detect several types of gases, including LPG (liquefied petroleum gas), smoke, alcohol, propane, hydrogen, methane, and carbon monoxide.

WARNING! The MQ2 can detect many gases, but **it cannot identify which one specifically**. It only tells you that gas concentration has changed.

MORE INFO:

<https://www.youtube.com/watch?v=SqONrFwa4PA&t=386s>

<https://lastminuteengineers.com/mq2-gas-senser-arduino-tutorial/>



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PRINT THE SENSOR VALUES IN THE SERIAL MONITOR

Download Arduino Code:

<https://github.com/camilacolussi/MQ2.git>



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CHALLENGE:

1. Modify your code and add an LED to monitor gas detection
2. Upload a video (aprox 10 seconds) showing your achievements.

VIDEO UPLOAD

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OTHER TUTORIALS

<https://www.youtube.com/watch?v=SqONrFwa4PA&t=386s>

<https://lastminuteengineers.com/mq2-gas-senser-arduino-tutorial/>

<https://randomnerdtutorials.com/guide-for-mq-2-gas-smoke-sensor-with-arduino/>