Grove - Gas Sensor(MQ2)

SKU 101020055

Description

The Grove - Gas Sensor(MQ2) module is useful for gas leakage detecting(in home and industry). It can detect LPG, i-butane, methane, alcohol, Hydrogen, somke and so on. Based on its fast response time. measurements can be taken as soon as possible. Also the sensitivity can be adjusted by the potentiometer.

For all Grove users (especially beginners), we provide you guidance PDF documents. Please download and read through Preface - Getting Started and Introduction to Grove before your using of the product.

Note

Hot-swapping the grove may lead to IC burnout, please turn off the power of main board before swapping grove.

Technical Details

Dimensions	130mm x 90mm x 23mm
Weight	G.W 16g
Battery	Exclude

Part List

Grove - Gas Sensor(MQ2)	1
Grove cable	1

ECCN/HTS

ECCN	2B351
HSCODE	9027900000

Certification

RoHS	Compliant

How to Chose A Gas Sensor

If you search "gas sensor" on www.seeedstudio.com , you can find a lot of gas sensor. We know that the air component is diverse, and a certain gas sensor can detect one or more air components, so we designed a series of gas sensor.
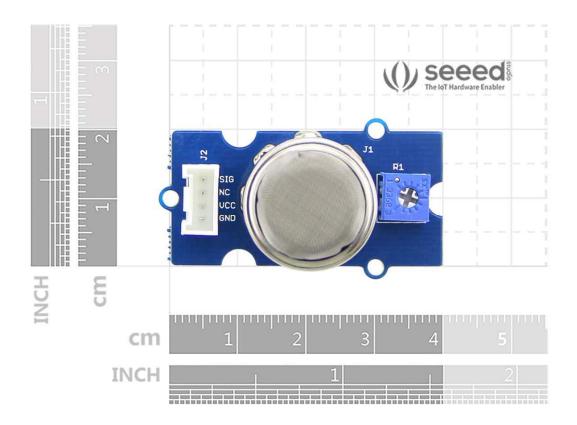
There are about 10 kind of gas sensor for sale. They have similar name, it's likely to cause confusion. Hope that through the following presentation, we can help you to choose the appropriate gas sensor easily.

It's obvious that different sensor can detect the same gas. Such as MQ-2, MQ-3, MQ-5 Alcohol Sensor, Grove – HCHO Sensor can detect Alcohol. So if you want an alcohol sensor, then which on should you chosen? Although most of the above sensors are able to detect Alcohol, but you should know that they have different range to Alcohol.

GAS	Range	Price	Product Name	SKU
Dust	0 ~ 8000 pcs/0.01cf		Grove - Dust Sensor	101020012
CO	200 ~ 10000ppm		Grove - Gas Sensor(MQ2)	101020055
CO	0.05 ~ 10ppm		Grove - Gas Sensor(MQ3)	101020006
CO	200 ~ 10000ppm		Grove - Gas Sensor(MQ5)	101020056
CO	20 ~ 2000ppm		Grove - Gas Sensor(MQ9)	101020045
CO	0 ~ 1000ppm		Grove - Multichannel Gas Sensor	101020088
Alcohol	200 ~ 10000ppm		Grove - Gas Sensor(MQ5)	101020056
Alcohol	100ppm ~ 2000ppm		Grove - Gas Sensor(MQ2)	101020055
Alcohol	10 ~ 500ppm		Grove - Multichannel Gas Sensor	101020088
Alcohol	20 ~ 1000ppm		Grove - Alcohol Sensor	101020044
Alcohol	0.05 ~ 10ppm		Grove - Gas Sensor(MQ3)	101020006
O2	0 ~ 25% VOL (0 ~ 250000ppm)		Grove - Gas Sensor(O₂)	101020002
HCHO	5 ~ 40ppm		Grove - HCHO Sensor	101020001
CH4	200 ~ 10000ppm		Grove - Gas Sensor(MQ5)	101020056
CH4	5000 ~ 20000ppm		Grove - Gas Sensor(MQ2)	101020055
CH4	500 ~ 10000ppm		Grove - Gas Sensor(MQ9)	101020045
CH4	> 1000ppm		Grove - Multichannel Gas Sensor	101020088
CH4	0.05 ~ 10ppm		Grove - Gas Sensor(MQ3)	101020006
Hexane	0.05 ~ 10ppm		Grove - Gas Sensor(MQ3)	101020006
Propane	> 1000ppm		Grove - Multichannel Gas Sensor	101020088
Propane	200 ~ 5000ppm		Grove - Gas Sensor(MQ2)	101020055
Butane	3000 ~ 5000ppm		Grove - Gas Sensor(MQ2)	101020055
Benzine	0.05 ~ 10ppm		Grove - Gas Sensor(MQ3)	101020006
LPG	200 ~ 10000ppm		Grove - Gas Sensor(MQ5)	101020056
LPG	200 ~ 5000ppm		Grove - Gas Sensor(MQ2)	101020055
LPG	500 ~ 10000ppm		Grove - Gas Sensor(MQ9)	101020045
LPG	0.05 ~ 10ppm		Grove - Gas Sensor(MQ3)	101020006
H2	300 ~ 5000ppm		Grove - Gas Sensor(MQ2)	101020055
H2	1 ~ 1000ppm		Grove - Multichannel Gas Sensor	101020088
H2	200 ~ 10000ppm		Grove - Gas Sensor(MQ5)	101020056
Smoke	200 ~ 10000ppm		Grove - Gas Sensor(MQ2)	101020055
NO2	0.05 ~ 10ppm		Grove - Multichannel Gas Sensor	101020088
NH3	1 ~500ppm		Grove - Multichannel Gas Sensor	101020088
Iso-butane	> 1000ppm		Grove - Multichannel Gas Sensor	101020088
CO2	0 ~ 2000ppm		Grove - CO2 Sensor	101020067

And sometimes, we want to test many gases in one sensor, so how should we choose it ?

Product Name	SKU	Price	Measurable Gases	Range
Grove – Multichannel Gas Sensor	101020088		CO	0 ~ 1000ppm
			Alcohol	10 ~ 500ppm
			CH4	> 1000ppm
			Propane(丙烷)	> 1000ppm
			NO2	0.05 ~ 10ppm
			NH3	1 ~500ppm
			Iso-butane	> 1000ppm
			H2	1 ~ 1000ppm
Grove – Gas Sensor(MQ2)	101020055		CO	200 ~ 10000ppm
			Alcohol	100 ~ 2000ppm
			CH4	5000 ~ 20000ppm
			Propane	200 ~ 5000ppm
			LPG	200 ~ 5000ppm
			Butane	3000 ~ 5000ppm
			H2	300 ~ 5000ppm
			Smoke	200 ~ 10000ppm
Grove – Gas Sensor(MQ3)	101020006		CO	0.05 ~ 10ppm
			Alcohol	0.05 ~ 10ppm
			CH4	0.05 ~ 10ppm
			Hexane	0.05 ~ 10ppm
			Benzine	0.05 ~ 10ppm
			LPG	0.05 ~ 10ppm
Grove – Gas Sensor(MQ5)	101020056		CO	200 ~ 10000ppm
			Alcohol	200 ~ 10000ppm
			CH4	200 ~ 10000ppm
			LPG	200 ~ 10000ppm
			H2	200 ~ 10000ppm
Grove – Gas Sensor(MQ9)	101020045		CO	20 ~ 2000ppm
			CH4	500 ~ 10000ppm
			LPG	500 ~ 10000ppm
Grove – Dust Sensor	101020012		Dust	0 ~ 8000 pcs/0.01cf
Grove – Alcohol Sensor	101020044		Alcohol	20 ~ 1000ppm
Grove – Gas Sensor(O_2)	101020002		O_2	0 ~ 25% VOL (0 ~ 250000ppm)
Grove – HCHO Sensor	101020001		HCHO	5 ~ 40ppm
Grove – CO2 Sensor	101020067		CO2	0 ~ 2000ppm