

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.

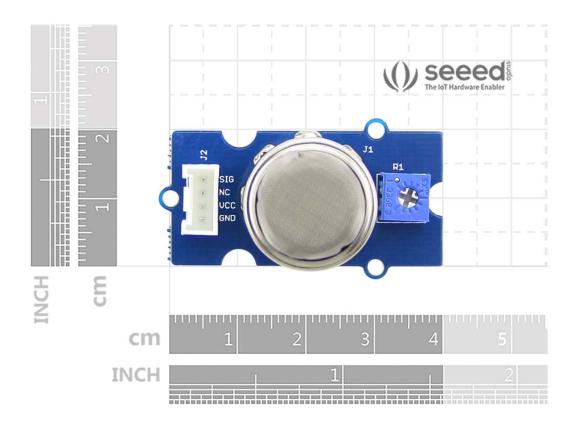
There are about 10 kind of gas sensor for sale. They have similar name, it's likely to cause confusion. Hope that through the following presentation, we can help you to choose the appropriate gas sensor easily.

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	Price Product Name		
Dust	0 $^{\sim}$ 8000 pcs/0.01cf		Grove - Dust Sensor		
со	200 $^{\sim}$ 10000ppm		Grove - Gas Sensor(MQ2)	101020055	
	0.05 $^{\sim}$ 10ppm		Grove - Gas Sensor(MQ3)	101020006	
	200 $^{\sim}$ 10000ppm		Grove - Gas Sensor(MQ5)	101020056	
	20 $^{\sim}$ 2000ppm		Grove - Gas Sensor(MQ9)	101020045	
	0 ~ 1000ppm		Grove - Multichannel Gas Sensor	101020088	
	200 $^{\sim}$ 10000ppm		Grove - Gas Sensor(MQ5)	101020056	
	100ppm $^{\sim}$ 2000ppm		Grove - Gas Sensor(MQ2)	101020055	
Alcohol	10 $^{\sim}$ 500ppm		Grove - Multichannel Gas Sensor	101020088	
	20 $^{\sim}$ 1000ppm		Grove - Alcohol Sensor	101020044	
	0.05 $^{\sim}$ 10ppm		Grove - Gas Sensor(MQ3)	101020006	
02	0 [~] 25% VOL (0 [~] 250000ppm) Grove - Gas Sensor(0₂)		101020002		
НСНО	5~~40ppm		Grove - HCHO Sensor	101020001	
	200 $^{\sim}$ 10000ppm		Grove - Gas Sensor(MQ5)	101020056	
	5000 $^{\sim}$ 20000ppm		Grove - Gas Sensor(MQ2)	101020055	
CH4	500 $^{\sim}$ 10000ppm		Grove - Gas Sensor(MQ9)	101020045	
	> 1000ppm		Grove - Multichannel Gas Sensor	101020088	
	0.05 $^{\sim}$ 10ppm		Grove - Gas Sensor(MQ3)	101020006	
Hexane	0.05 ~ 10ppm		Grove - Gas Sensor(MQ3)	101020006	
5	> 1000ppm		Grove - Multichannel Gas Sensor	101020088	
Propane	200 $^{\sim}$ 5000ppm		Grove - Gas Sensor(MQ2)	101020055	
Butane	3000 $^{\sim}$ 5000ppm		Grove - Gas Sensor(MQ2)	101020055	
Benzine	0.05 $^{\sim}$ 10ppm		Grove - Gas Sensor(MQ3)	101020006	
	200 $^{\sim}$ 10000ppm		Grove - Gas Sensor(MQ5)	101020056	
LPG	200 $^{\sim}$ 5000ppm		Grove - Gas Sensor(MQ2)	101020055	
	500 $^{\sim}$ 10000ppm		Grove - Gas Sensor(MQ9)	101020045	
	0.05 ~ 10ppm		Grove - Gas Sensor(MQ3)	101020006	
H2	$300 \sim 5000$ ppm		Grove - Gas Sensor(MQ2)	101020055	
	1 ~ 1000ppm		Grove - Multichannel Gas Sensor	101020088	
	200 $^{\sim}$ 10000ppm		Grove - Gas Sensor(MQ5)	101020056	
Smoke	200 $^{\sim}$ 10000ppm		Grove - Gas Sensor(MQ2)	101020055	
NO2	0.05 $^{\sim}$ 10ppm		Grove - Multichannel Gas Sensor	101020088	
NH3	1 ~500ppm		Grove - Multichannel Gas Sensor	101020088	
Iso-butane	> 1000ppm		Grove - Multichannel Gas Sensor		
C02	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	3	СО	0 $^{\sim}$ 1000ppm
			Alcohol	10 $^{\sim}$ 500ppm
			CH4	> 1000ppm
			Propane(丙烷)	> 1000ppm
			NO2	0.05 $^{\sim}$ 10ppm
			NH3	1 ~500ppm
			Iso-butane	> 1000ppm
			H2	$1~^{\sim}~1000$ ppm
			СО	200 $^{\sim}$ 10000ppm
			Alcohol	100 $^{\sim}$ 2000ppm
			CH4	5000 $^{\sim}$ 20000ppm
			Propane	200~~ 5000ppm
Grove - Gas Sensor(MQ2)	101020055		LPG	200 $^{\sim}$ 5000ppm
			Butane	3000 $^{\sim}$ 5000ppm
			H2	$300~\sim$ 5000ppm
			Smoke	200 $^{\sim}$ 10000ppm
			СО	0.05 $^{\sim}$ 10ppm
	101020006		Alcohol	0.05 $^{\sim}$ 10ppm
Grove - Gas Sensor(MQ3)			CH4	0.05 $^{\sim}$ 10ppm
GLOVE Gas Sensor (MQ3)			Hexane	0.05 $^{\sim}$ 10ppm
			Benzine	0.05 $^{\sim}$ 10ppm
			LPG	0.05 $^{\sim}$ 10ppm
	101020056		СО	200 $^{\sim}$ 10000ppm
			Alcohol	200 $^{\sim}$ 10000ppm
Grove - Gas Sensor(MQ5)			CH4	200 $^{\sim}$ 10000ppm
			LPG	200 $^{\sim}$ 10000ppm
			H2	200 $^{\sim}$ 10000ppm
Grove - Gas Sensor(MQ9)	101020045		СО	$20~^{\sim}$ 2000ppm
			CH4	500 $^{\sim}$ 10000ppm
			LPG	500 $^{\sim}$ 10000ppm
Grove - Dust Sensor	101020012		Dust	0 $^{\sim}$ 8000 pcs/0.01cf
Grove - Alcohol Sensor	101020044		Alcohol	$20~^{\sim}$ 1000ppm
Grove - Gas Sensor(O2)	101020002		02	$0 \stackrel{\sim}{} 25\%$ VOL (0 $\stackrel{\sim}{} 250000$ ppm)
Grove - HCHO Sensor	101020001		НСНО	5 $^{\sim}$ 40ppm
Grove - CO2 Sensor	101020067		C02	0 $^{\sim}$ 2000ppm



https://www.seeedstudio.com/Grove-Gas-Sensor-MQ-p-937.html 10-17-18