



MQ-4 mini version

MP-4 combustible gas sensor module



MQ-135 mini version

MP-135 Air quality gas sensor module

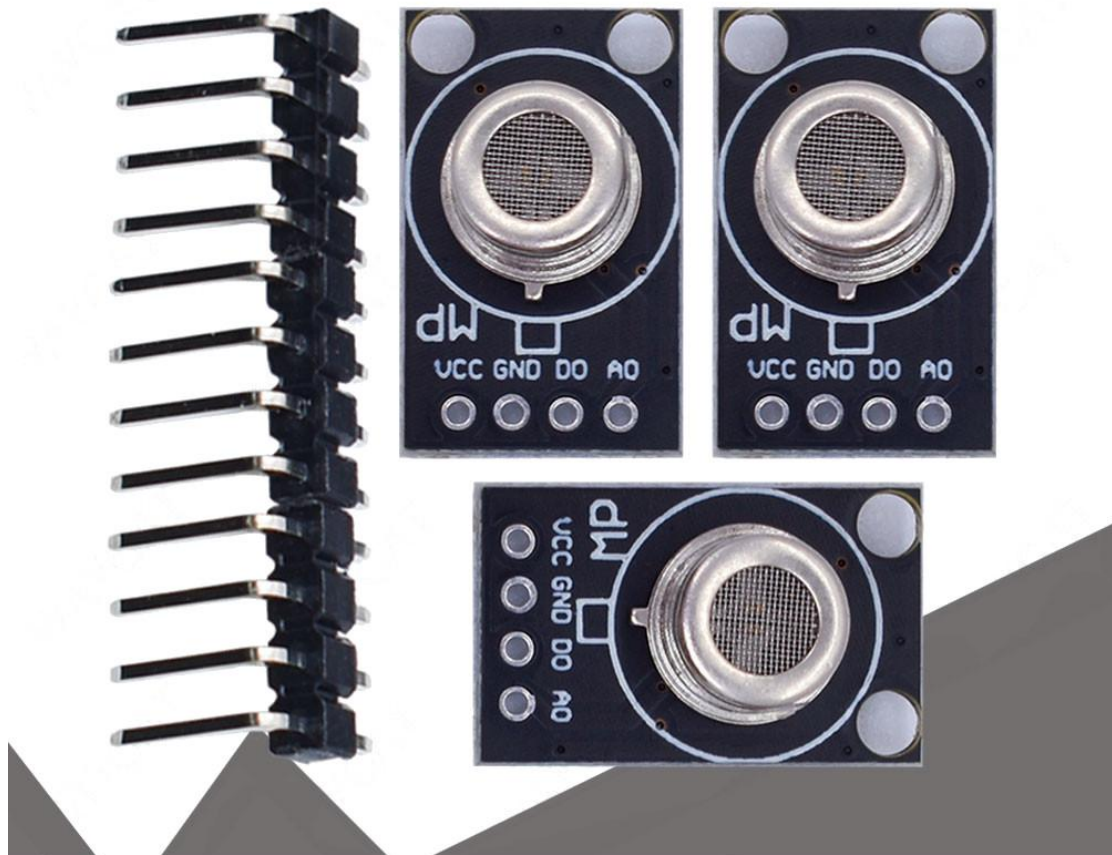


MQ-2 mini version

MP-2 smoke gas sensor module

MP-135 air quality gas sensor module

- ✓ MP-2 smoke gas sensor module
- ✓ MP-4 combustible gas sensor module



Product description

MP-2 smoke detection gas sensor





Product introduction

The MP-2 smoke detection gas sensor adopts multilayer thick film manufacturing process. The heater and metal oxide semiconductor gas sensing layer are respectively made on both sides of the micro Al₂O₃ ceramic substrate and encapsulated in the metal shell. The conductivity of the sensor changes when there is a detected gas in the ambient air. The higher the concentration of the gas, the higher the conductivity of the sensor. This conductivity change can be converted into an output signal corresponding to the gas concentration by a simple circuit.

Product features

This product has good sensitivity to propane, smoke and so on in a wide concentration range. It has the characteristics of small size, long life, low cost and simple drive circuit.

Scope of application:

Widely used in home smoke alarm, industrial smoke alarm and portable smoke detection instruments.

Product parameters

Product model		MP-2	
Product type		Plane semiconductor gas sensor	
Standard packaging		Metal packaging	
Detection of gas		Propane, smoke	
Detection of concentration		200~10000ppm C ₃ H ₈	
Standard circuit condition	Circuit voltage	V _c	≤10V DC
	heating voltage	V _H	5.0V±0.1V AC or DC
	Load resistance	R _L	Adjustable
	Heat resistance	R _H	105+10Ω (room temperature)
power consumption of			

Gas sensor characteristics under standard test conditions	the heating	P_H	
	sensitivity	S	$R_s(\text{in air})/R_s(\text{in } 2000\text{ppm } C_3H_8) \geq 3$
	output voltage	V_s	2.5V~4.0V (in 2000ppm C_3H_8)
	concentration gradient	a	$\leq 0.6 (R_{3000\text{ppm}}/R_{500\text{ppm}} C_3H_8)$
Environmental conditions	use of temperature	T_{ao}	-10°C~50°C
	Storage temperature	T_{as}	-20°C~70°C
	Relative humidity	RH	Less than 95% RH
	Oxygen concentrations	O_2	21%±1%(not less than 18%)
			Change of oxygen concentration affects the sensor sensitivity
Warm up time			Not less than 48 hours

Product description

MP-4 combustible gas sensor



Product introduction

The MP-4 combustible gas sensor adopts multilayer thick film manufacturing process. The heater and metal oxide semiconductor gas sensing layer are respectively made on both sides of the micro Al_2O_3 ceramic substrate and encapsulated in the metal shell. The conductivity of the sensor changes when the detected gas is present in

MP135/MP503 air quality gas sensor



Product introduction

MP135/MP503 air quality gas sensor using multilayer thick film manufacturing process, in the micro Al₂O₃ ceramic substrate on both sides of the heater and metal oxide semiconductor gas sensing layer, encapsulated in the metal shell. The conductivity of the sensor changes when there is a detected gas in the ambient air. The higher the concentration of the gas, the higher the conductivity of the sensor. This conductivity change can be converted into an output signal corresponding to the gas concentration by a simple circuit.

Product features

This product is sensitive to alcohol, smoke, isobutane, formaldehyde; It has the advantages of fast response recovery, low power consumption, simple detection circuit, good stability, long life, etc.

Scope of application:

Used for home environment and office harmful gas detection, automatic exhaust device, air freshener, etc.

Product parameters

Product model	MP503
Product type	Plane semiconductor gas sensor
Standard packaging	Metal packaging

Detection of gas		Alcohol, smoke, isobutane, formaldehyde	
Detection of concentration		1~1000ppm (alcohol)	
Standard circuit condition	Circuit voltage	V_c	$\leq 24V$ DC
	heating voltage	V_H	$5.0V \pm 0.1V$ AC or DC
	Load resistance	R_L	Adjustable
Gas sensor characteristics under standard test conditions	Heat resistance	R_H	$95\Omega + 10\Omega$ (room temperature)
	power consumption of the heating	P_H	$\leq 300mW$
	Sensor resistance	R_s	$1k\Omega \sim 30k\Omega$ (50 PPM in alcohol)
	sensitivity	S	R_S (in air)/ R_S (in PPM alcohol) ≥ 5
	concentration gradient	a	≤ 0.6 ($R_{1000ppm}/R_{30ppm}$ alcohol)
Environmental conditions	Temperature and Humidity	20°C plus or minus 2°C; 65% +/- 5% RH	
	Standard test circuit	V_c 5.0V±0.1V; V_H : 5.0V±0.1V	
	Warm up time	Not less than 48 hours	

Product size



Weight: 2.3g