



Air-Quality Detection Module

(Model: ZP07-MP901)

User's Manual

Version: 1.1

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Zhengzhou Winsen Electronics Technology Co., Ltd

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Zhengzhou Winsen Electronics Technology CO., LTD.

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ZP07-MP901 Air-Quality Detection Module

Product Description

ZP07 air-quality module adopts flat surface semiconductor gas sensor. The module has good sensitivity to volatile organic gases such as formaldehyde, benzene, carbon monoxide, ammonia, hydrogen, alcohol and smoke of cigarette, essence &etc. The module has been aging, debugged, adjusted and calibrated. So it has good consistency and high sensitivity.

Features

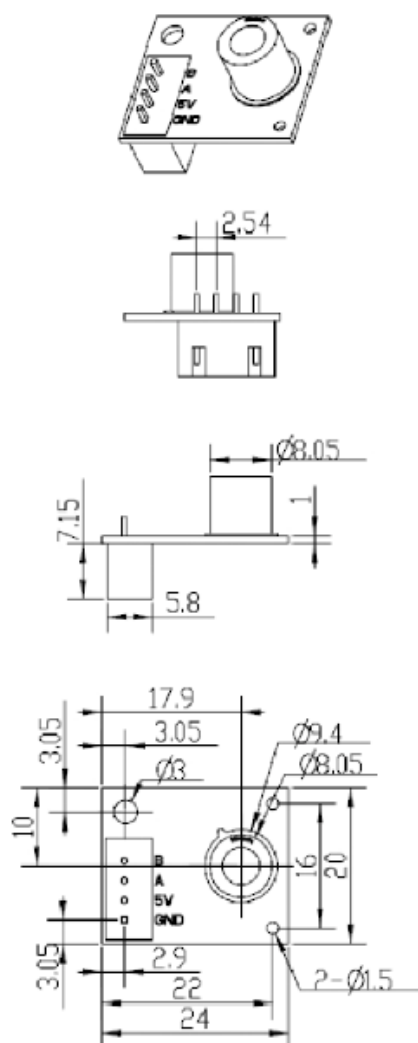
- High sensitivity
- Low power consumption, long life
- Calibrated before shipment
- 10 seconds to 3 minutes with auto-preheating function
- Faulty auto-check, High cost-effective

Application

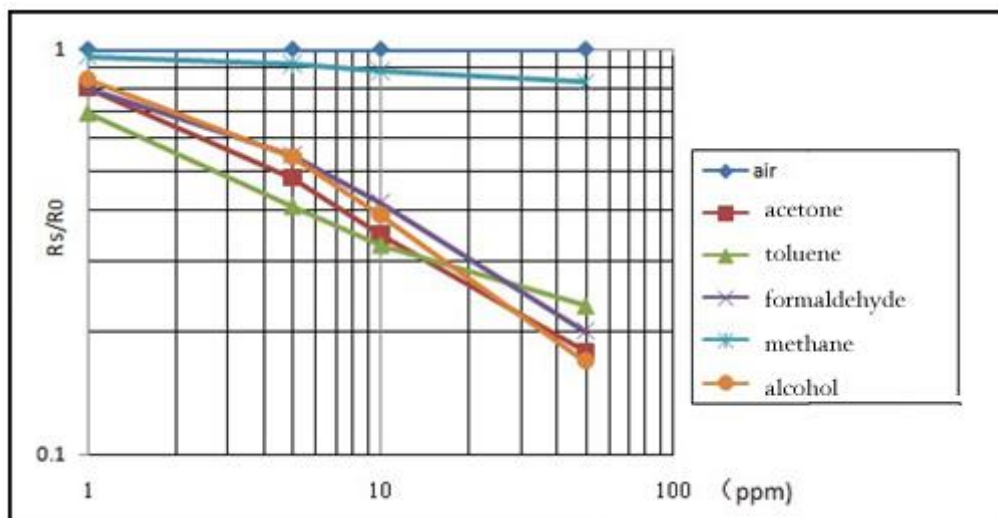
Air cleaner, fresh-air system, intelligent integrated ceiling, air quality detector, ventilator, air-condition.

Parameters

Model	ZP07-MP901
Sensor	Air quality sensor
Target Gas	formaldehyde, benzene, carbon monoxide, ammonia, hydrogen, alcohol, smoke of cigarette, essence &etc.
Physical Interface	XH2.54-4P terminal sockets
Output Data	0—10 grade pollution signal
Working Voltage	5.0±0.2V DC (No voltage reverse connect protection)
Output Data	TTL level (200ohm protected resistance inside)
Working Current	≤60mA
Warm Up Time	≤3 mins
Response Time	≤20s
Recovery Time	≤60s
Operating Temperature	0~50℃
Operating Humidity	≤95% RH
Storage Temperature	-20~60℃
Storage Humidity	≤60% RH
Size	24×20×15mm(L×W×H)
Weight	≤20g
Sensitivity Attenuator	≤1%/year
Life Span	≥5 years

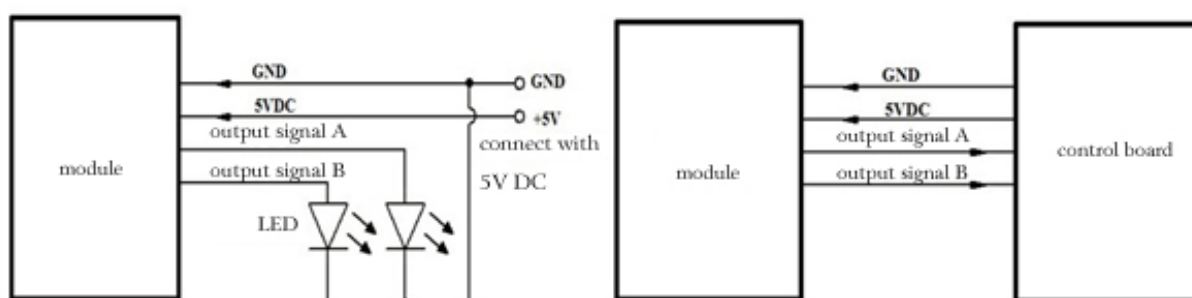


Sensitivity Characteristics



Contrast of the sensitivity in different gases

Application of schematic diagram



Pin definition Stable2.

Pin	Name	Function
1	GND	Input power -
2	5V	Input power +
3	A	Output signal A
4	B	Output signal B (reserved by factory)

A Output Signal Stable3.

High ms	Low ms	Pollution Class
0	100	0
10	90	1
20	80	2
30	70	3
40	60	4
50	50	5
60	40	6
70	30	7
80	20	8
90	10	9
100	0	10

Cautions

- Please do not put the module in organic solvent (include silica gel and other cementing compound), painting, medicament, oils and fuels, high concentration gas etc.
- Please do not impact or vibrate the module seriously.
- Please warm up for 5 min before first using.
- Please do not use the module related with personal safety.
- Please do not install the module in the severe convection environment.
- Please do not put in the module in high concentration organic gas for long time.

Note: To keep continual product development, we reserve the right to change design features without prior notice.

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