



Smoke Module
(Model: ZP13-Terminal)

Manual

Version: 1.4

Valid from: 2022-03-10

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ZP13 Smoke Module

Profile

ZP13 adopts advanced plat surfaced semiconductor sensor. It is highly sensitive to smoke, propane &etc gases. The module is calibrated and has good uniformity and highly sensitivity.



Features

Highly sensitivity, good long-term stability, calibrated, 3min preheating judgement, fault self-diagnosis, low power consumption, long lifespan, high cost-effective.

Main Application

Widely used in smoke alarm for home use, smoke alarm for industrial use and portable smoke detector

Parameters

Stable1.

Model No.	ZP13
Detection Gas	Propane, smoke
Physical Interface	XH2.54-4P terminal socket
Output Data	A signal on-off output
Working voltage	5.0±0.2V DC (No voltage reverse protection)
Output data type	TTL level (200Ω protected resistance inside)
Working current	≤60mA
Warm up time	≤3 min
Response Time	≤20 s
Recovery Time	≤60 s
Operating Temperature	0~50°C
Operating Humidity	≤95% RH
Storage Temperature	-20~60°C
Storage Humidity	≤60% RH
Size	24.1×20.1×15.6mm (L × W × H)
Weight	≤20g
Sensitivity Attenuator	≤1%/ year

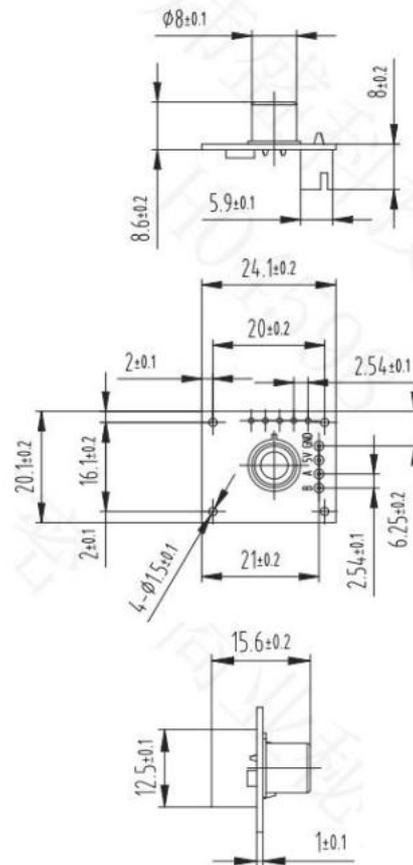


Fig1: Module structure (tolerance is ±0.2mm)

Terminal definition Stable2

Name	Function
GND	Input power negative terminal
5V	Input power positive terminal
A	Output signal A (high level generates an alarm signal, low level does not generate an alarm signal)
B	Signal B (factory reserved)

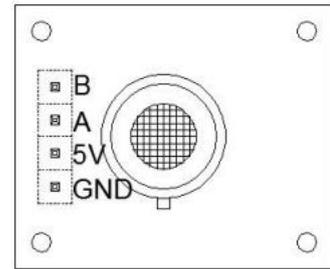


Fig1: Module pin diagram

Sensitivity Curve

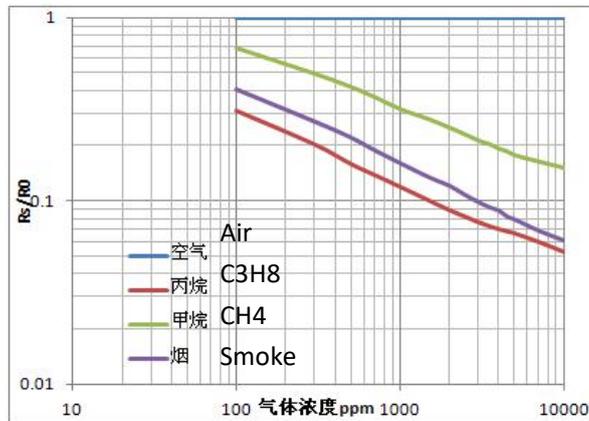


Fig2. Sensitivity curve in different gases

Application of schematic diagram

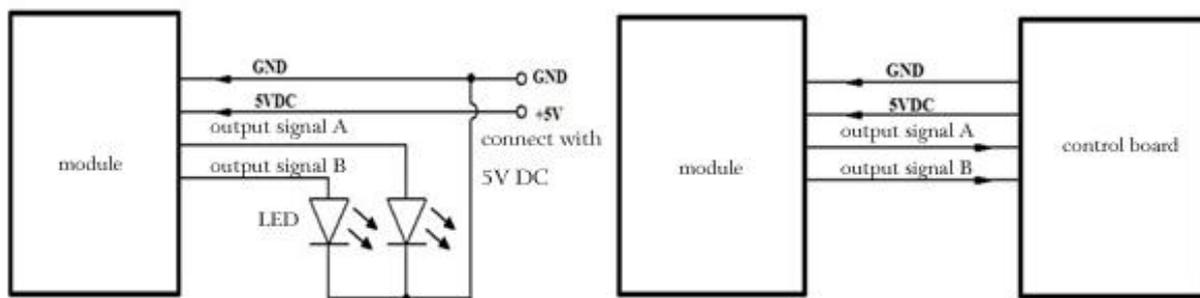


Fig3: Application of schematic diagram

Cautions

1. 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.
2. Please do not impact or vibrate the module seriously.
3. Please warm up for 5 min before first use.
4. Please do not use the module related with personal safety.
5. Please do not install the module in the severe convection environment.
6. Please do not put in the module in high concentration organic gas for long time.
7. Power on the module as request strictly, if the power voltage is higher than 5.5V, the module will be damaged irreversibly.

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