

TECHNICAL DATA

MQ-3 GAS SENSOR

FEATURES

- * High sensitivity to alcohol and small sensitivity to Benzine.
- * Fast response and High sensitivity
- * Stable and long life
- * Simple drive circuit

APPLICATION

They are suitable for alcohol checker; Breathalyser.

SPECIFICATIONS

A. Standard work condition		Technical condition		Remarks
Symbol	Parameter name	Circuit voltage	5V±0.1	
V _c	Heating voltage	5V±0.1	AC OR DC	
V _H	Load resistance	200K Ω	ACOR DC	
R _L	Heater resistance	33 Ω ± 5%	Room Tem	
R _H	Heating consumption	less than 750mW		
B. Environment condition		Technical condition		Remarks
Tao	Using Tem	-10°C-50°C		
Tas	Storage Tem	-20°C-70°C		
R _H	Related humidity	less than 95%Rh		
O ₂	Oxygen concentration	21%(standard condition) Oxygen concentration can affect sensitivity	minimum value is over 2%	

C. Sensitivity characteristic

Symbol	Parameter name	Technical parameter	Remarks
R _s	Sensing Resistance	1MΩ - 8MΩ (0.4mg/L alcohol)	Detecting concentration scope:
a (0.41 mg/L)	Concentration slope rate	≤0.6	0.05mg/L—10mg/L Alcohol
Standard detecting condition	Temp: 20°C±2°C Humidity: 65%±5%	V _c :5V±0.1 V _H :5V±0.1	
Preheat time	Over 24 hour		

D. Structure and configuration, basic measuring circuit

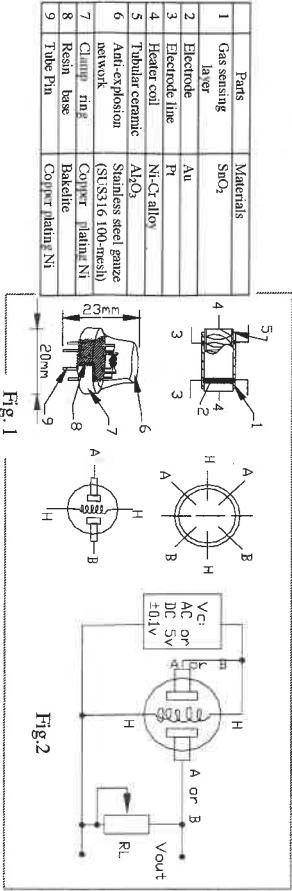


Fig. 1

Fig. 2