

Combustible Gas Sensors

MOS Combustible Gas Sensor

- Long lifespan
- Quick response
- Simple drive circuit



MP/MQ-4

Detection range		300-10000 ppm CH ₄
Standard Circuit	Loop voltage	V _C ≤ 24V DC
	Heater voltage	V _H 5.0±0.1 V AC or DC
	Heater consumption	P _H ≤ 350 mW
Sensor character under standard test conditions	Sensitivity	S R ₀ (in air)/R _S (in 5000ppm CH ₄) ≥ 5
	Output voltage	V _S 2.5 V - 4.0 V (in 5000ppm CH ₄)
	Concentration slope	α ≤ 0.6 (R _{5000ppm} /R _{1000ppm} CH ₄)
	Lifespan	10 years
Size		φ9.4*7.0 mm

Catalytic Combustible Gas Sensor

- Bridge output voltage in linear
- Resist H₂S poisoning & organosilicone
- Good repeatability & selectivity



MC105

Measuring range	0-100 %LEL
Working voltage	2.5±0.1 V
Working current	150±10 mA
Sensitivity	20-50 mV (20%LEL CH ₄)
	30-70 mV (45%LEL C ₃ H ₈)
Response time (T ₉₀)	≤ 10 s
Working conditions	-10 to +55 °C, < 95 %RH
Lifespan	5 years
Size	φ12×9.5 mm

Laser Methane (CH₄) Sensor

- High precision
- Good selectivity
- Digital output, UART (TTL 3.3V)



MH-L9041A

Detection range	3-100 %LEL
Accuracy	±3 %LEL
Resolution	0.2 %LEL
Response time	≤ 15 s (cold boot)
Working voltage	3.6-5 V DC
Average current	≤ 60 mA @25°C
Working conditions	-20 to 60 °C, 0-99 %RH (no condensation) 80-116 kpa
Lifespan	≥ 5 years
Size	φ 40×68 mm

NDIR Industrial Combustible Gas Sensor

- Ultra-low power consumption
- Excellent anti-poisoning
- Excellent linearity and stability



MH-T4041A

Detection range	0-10% VOL optional, Hydrocarbon combustible gases
Detection accuracy	±3%FS(10°C-40°C); ±5%FS(-20°C to 10°C, 40°C-60°C)
Resolution	CH ₄ : 0.01% Vol ; C ₃ H ₈ , C ₄ H ₁₀ : 1% LEL
Response time	T ₉₀ < 15s
Power supply	3.3-5.5V DC (powered by the safety grid)
Average current	< 0.8mA
Working conditions	-20°C to 60 °C, 0-95%RH (no condensation)
Lifespan	> 5 years
Size	φ20×21.7mm

MOS Combustible Gas Sensor

- High sensitivity to CH₄ gas
- Excellent anti-interference
- Excellent stability



MPn-4C

Detection range		300-10000 ppm CH ₄
Standard Circuit	Loop voltage	V _C ≤ 24V DC
	Heater Voltage	V _H 5.0±0.1 V AC or DC
	Heater consumption	P _H ≤ 350 mW
Sensor character under standard test conditions	Sensitive resistance	R _S 1KΩ-20KΩ (in 5000ppm CH ₄)
	Sensitivity	S Rs(in air)/Rs(5000ppm CH ₄)≥8
	Concentration slope	α ≤ 0.6 (R _{5000ppm} /R _{1000ppm} CH ₄)
	Lifespan	10 years
Size		φ9.15×12.3 mm

Hot Wire Combustible Gas Sensor

- Good linearity
- Quick response
- Good repeatability



MR007

Detection range	0-100 %LEL
Working voltage	2.5±0.1 V
Working current	150±10 mA
Sensitivity	12-45 mV (20%LEL CH ₄)
	10-30 mV (20%LEL C ₃ H ₈)
Response time (T ₉₀)	≤ 10 s
Working conditions	-40 to +70 °C, < 95 %RH
Lifespan	5 years
Size	φ12.4×10.2 mm

NDIR Civil Methane(CH₄) Sensor

- Low power consumption
- Excellent anti-poisoning
- Free calibration



MH-Z1341B

Detection range	0-100%LEL CH ₄ optional
Detection accuracy	±0.15%VOL(@10-40 °C); ±0.25%VOL(-10 to 10°C, 40-60°C)
Resolution	0.01%VOL
Response time	T ₉₀ < 30s
Power supply	DC(3.3-5.5)V
Average current	<50μA (@3.3Vpower supply,in clean air)
Working conditions	-10°C to 60°C, 0-95%RH (no condensation)
Lifespan	>10 years
Size	19.5×34.5×13.4mm

NDIR Industrial Combustible Gas Sensor

- Flameproof structure
- Support high humidity environment
- -60 °C can be customized



MH-T7042

Detection range	0-100 %VOL optional, Combustible gas
Working voltage	4.5-5.5 V DC
Output	UART
Average current	<100 mA
Response time (T ₉₀)	< 30 s
Working conditions	-40 to 70 °C, 0-95% RH
Lifespan	> 5 years
Size	φ 51.0×65.0 mm



Combustible Gas Leak Monitoring



Fire/Safety Detection System



Combustible Gas Leak Alarm