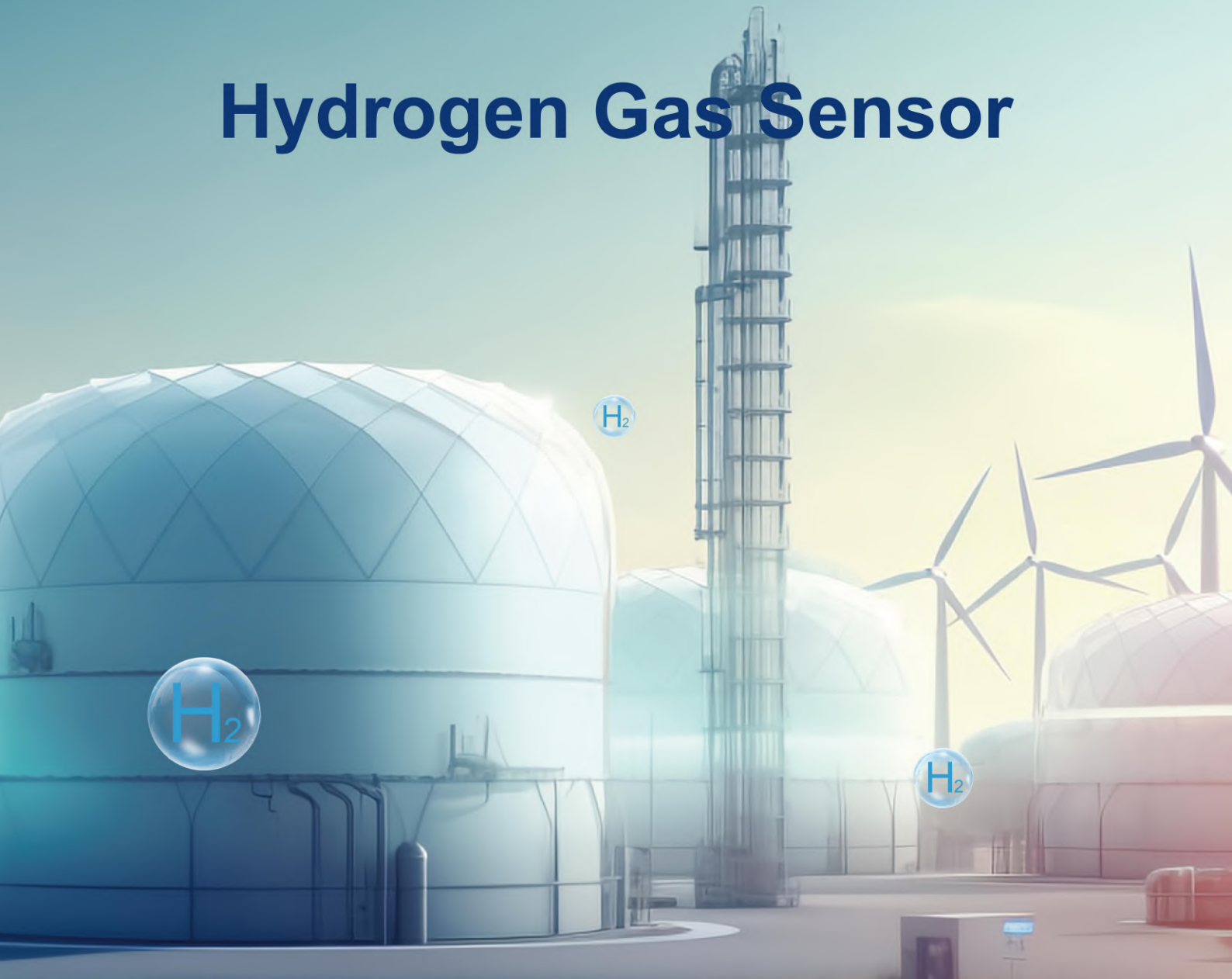


Hydrogen Gas Sensor



ZHENGZHOU WINSEN ELECTRONICS TECHNOLOGY CO., LTD.

7 CATEGORIES

200⁺ SERIES

300⁺ DETECTION INDICATORS

Gas Sensors (semiconductor, catalytic, electrochemical, infrared absorption), Gas Flow Sensor, Humidity Sensor, Pressure Sensor, Infrared Detection Sensor, Water Quality Sensor, and Sensing Solutions.

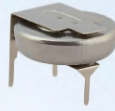
Tel.: 0086-371-67169097 Email: sales@winsensor.com Web: www.winsen-sensor.com



Hydrogen H2 Gas Sensors

MEV-GH01

- Low consumption
- Wide linear range
- Good anti-interference ability



Sensor type	Electrochemical
Detection range	0~2000ppm (Max.5000ppm)
Sensitivity	(0.5~1.5)nA/ppm
Resolution	1ppm
Response time (T ₉₀)	<30s
Load resistance (recommended)	(500/1K/2K) Ω
Repeatability	<5% output value
Output linearity	Linear
Temperature range	-10 $^{\circ}$ C~+50 $^{\circ}$ C (common) -40 $^{\circ}$ C~+70 $^{\circ}$ C (occasionally)
Humidity range	15%~90%RH
Lifespan	10 years

MPV-820

- Good selectivity
- Simple application circuit
- Long life



Sensor type	Flat Surfaced MOS		
Standard encapsulation	TO-5		
Detection range	100~3000ppm		
Standard circuit conditions	Loop voltage	V _C	5.0V \pm 0.1V DC
	Heating voltage	V _H	5.0V \pm 0.1V DC
	Load resistance	R _L	Adjustable
	Heater consumption	P _H	\leq 350 mW
	sensitive materials resistance	R _S	0.5~10 K Ω (in 200ppm H ₂)
Standard condition of testing	Temperature; humidity	20 $^{\circ}$ C \pm 2 $^{\circ}$ C; 65% \pm 5%RH	
	Standard test circuit	VC/VH: 5.0V \pm 0.1V	

ZE610

- Good stability
- High linear output
- Temperature compensated



Sensor type	Electrochemical Sensor Module
Detection range	0~5000ppm
Output data	DAC(0.4~2V standard voltage output corresponding to 0~full scale)
	UART Output (3V-TTL Electrical Level)
Working voltage	5V~12V (No voltage reverse connect protection)
Warm up time	\leq 5 minutes
Response time	\leq 60s
Resume time	\leq 60s
Resolution	10ppm
Working temperature	-10 $^{\circ}$ C~+55 $^{\circ}$ C
Working humidity	15%RH~90%RH (No condensation)
Storage temperature	-10 $^{\circ}$ C~+55 $^{\circ}$ C

MC33J

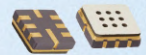
- Quick response
- Good stability
- Good repeatability



Sensor type	Catalytic	
Detection range	0~100%LEL	
Working voltage	0.8 \pm 0.1V	
Working current	170 \pm 10mA	
Sensitivity	1% H ₂	15-35mV
Linearity	\leq 5%	
Response time (T ₉₀)	\leq 2s	
Start-up time in air	\leq 1s	
Working environment	-20~+95 $^{\circ}$ C, less than 95%RH	
Storage environment	-20~+55 $^{\circ}$ C, less than 95%RH	
Lifespan	5 years	

GMV-2021B

- All solid state
- Low power consumption
- Long life



Sensor type	MEMS-MOS		
Standard encapsulation	Ceramic		
Detection range	0.1~1000ppm		
Standard circuit conditions	Loop voltage	V _C	\leq 24V DC
	Heater voltage	V _H	2.5V \pm 0.1V AC or DC
	Load resistance	R _L	Adjustable
Sensor character under standard test conditions	Heater consumption	P _H	\leq 50mW
	Sensitive materials resistance	R _S	1K Ω ~30K Ω (in 200ppmH ₂)
	Heater resistance	R _H	80 Ω \pm 5 Ω (Room temperature)
	Sensitivity	S	R ₀ (in air)/R _S (in 200ppmH ₂) \geq 5

ZC61

- MEMS process
- Intelligent algorithms
- Anti-electromagnetic interference



Sensor type	MEMS Sensor Module
Detection range	0~4000ppm
Supply voltage(V)	DC 12V (9~16V)
Detection accuracy	\pm 10% above1%H ₂
Output signal	CAN
Response time (T ₉₀)	\leq 3s
Rated current	<25mA
Power consumption	<0.5W
Working temperature	-35~+85 $^{\circ}$ C
Working humidity	\leq 95%RH (No condensation)
Storage temperature	-40~+125 $^{\circ}$ C
Protection grade	IP67

