Winsen

– One-Stop Sensor Solutions –
Leading the industry, innovative & controllable technology

Energy Storage Safety Sensor Solutions

Winsen provides spatial point detection, battery cabinet (cluster–level detection), and battery pack (pack–level detection) sensor solutions for energy storage security systems to achieve combined detection of carbon monoxide, hydrogen, smoke, VOC, flame, temperature and humidity etc, using professional sensing technology to protect the safety of energy storage.

• CO Detection

ZE730 ME2–CO–14*5 ZE15

• H2 Detection

MEv–GH01 CMV–2021D MPv–820 ZE610

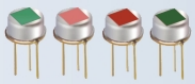
• T.&H. Detection

WHT20
MEMS temperature & humidity sensor

• Multi-in-One Module

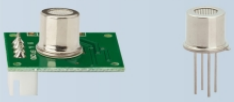
ZED100
CO/H2/VOC/SMOKE/TEMP.

• Flame Detection



PIR flame sensors

• Smoke Detection



ZP13 MP–2

• VOC Detection

MP503 MP801

Winsen Products

7 Catergories **200+ Series** **300+ Detection Indicators**

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

Notes: V_C–Loop Voltage V_H–Heater Voltage R_L–Load Resistance

• CO Detection

ZE730

EC CO Module

Range	0–1000ppm
Resolution	1ppm
Work voltage	5V ± 0.5V DC
Output	UART/PWM
Lifespan	10 years (in air)

- Fast response
- High precision
- Low power consumption

ME2–CO–14*5

EC CO Sensor

Range	0–5000ppm, Max. 10000ppm
Resolution	1ppm
Sensitivity	(1.2–3.5)nA/ppm
Response	T90<30S
Lifespan	10 years

- High precision, high sensitivity
- Excellent repeatability and stability
- Wide linear range, good anti–interference

• VOC Detection

MP503

MOS VOC Sensor

Range	10–1000ppm(alcohol)
V_C	≤24V DC
V_H	5.0V ± 0.1V AC or DC
R_L	Adjustable
Lifespan	10 years

- High sensitivity
- Fast response and resume
- Good stability and long life

MP801

MOS VOC Sensor

Range	0.5–1000ppm(alcohol)
V_C	≤24V DC
V_H	5.0V ± 0.1V AC or DC
R_L	Adjustable
Lifespan	10 years

- High sensitivity
- Fast response and resume
- Good stability and long life

• H2 Detection

MEv–GH01

EC H2 Sensor

Range	0–2000ppm Max. 5000ppm
Resolution	1ppm
Sensitivity	(0.5–1.5)nA/ppm
Response	T90<30S
Lifespan	10 years

- High precision, high sensitivity,
- Excellent repeatability and stability
- Wide linear range, good anti–interference

CMV–2021D

MEMS Catalytic H2 Sensor

Range	0–100%LEL
Work voltage	3.0 ± 0.1V
Work current	14 ± 1.0mA
Sensitivity	30–60mV (1% H2)
Linearity	≤5%

- Linear bridge output
- Low power consumption
- Good repeatability and selectivity

MPv–820

MOS H2 Sensor

Range	100–3000ppm
V_C	5.0V ± 0.1V DC
V_H	5.0V ± 0.1V DC
R_L	Adjustable
Lifespan	10 years

- High sensitivity, fast response
- Simple application circuit
- Long service life

ZE610

EC H2 Module

Range	0–5000ppm
Resolution	10ppm
Work voltage	5V–12V
Output	UART/Analog voltage
Lifespan	3–5 years

- Temperature compensated
- Excellent Linear output
- Anti fall–off test

• Smoke Detection

ZP13

MOS Smoke Module

Target	Propane, smoke
Work voltage	5.0 ± 0.2V DC
Work current	≤60mA
Response	T90≤20S
Output	TTL level

- Factory calibrated, fault self–diagnosis
- 3min preheating judgement
- Cost effective

MP–2

MOS Smoke Sensor

Range	200~10000ppm C3H8
V_C	≤10V DC
V_H	5V ± 0.1V AC or DC
R_L	Adjustable
Lifespan	10 years

- Good sensitivity to LPG, smoke in wide range
- Simple circuit; Small size
- Cost effective; Long lifespan

• T.&H. Detection

WHT20

MEMS Temperature &Humidity Sensor

Range	–40 to 85℃; 0–100%RH
Resolution	0.01℃; 0.01%RH
Repeatability	± 0.1° C; ± 0.1%RH
Work voltage	2.0V–5.5V
Communication	Dual–line digital interface, standard I2C protocol

- Quick response, high accuracy
- Excellent long–term stability
- SMD package fit for reflow soldering

•Multi-in-One Module

ZED100

CO/H2/VOC/SMOKE/TEMP.

Range	CO/H2: 0–1000ppm
	VOC: 0–500ppm
	Temp.: –40 to 85℃
Work voltage	12–30V DC
Output	CAN, 485

- High temperature resistance
- Fast response, high precision
- Light alarm function

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