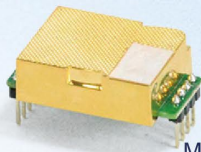


IAQ Sensors

NDIR CO2 Sensor

- Optional pin or terminal version
- The air chamber is gold-plated
- Good stability

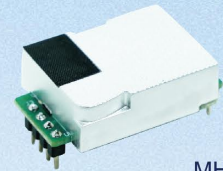


MH-Z19C

Detection range	400~10000 ppm(optional)
Working voltage	5.0±0.1 V DC
Average current	<40 mA (@5V supply)
Accuracy	±(50 ppm+5% reading)
Response time (T ₉₀)	< 120 s
Output	Serial Port (UART) (TTL level 3.3V)
	PWM
Lifespan	>10 years
Size	32.9×19.7×10.8 mm

NDIR CO2 Sensor

- >10 years lifespan
- High cost-effectiveness
- Excellent consistency

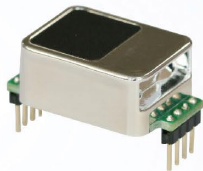


MH-Z1911A

Detection range	400~10000 ppm(optional)
Working voltage	5.0±0.1 V DC
Average current	<30 mA (@5V supply)
Accuracy	±(50 ppm+5% reading)
Response time (T ₉₀)	< 120 s
Output	Serial Port (UART) (TTL level 3.3V)
	PWM
Lifespan	>10 years
Size	32.9×19.7×10.8 mm

NDIR CO2 Sensor

- Ultra low power
- Long lifespan
- High accuracy



MH-Z1311A

Detection range	0~10000 ppm(optional)
Working voltage	5.0±0.1 V DC
Average current	150 uA (@5V power supply)
Accuracy	± (30 ppm+3% reading value)(15 to 35°C) ± (10 % reading value)(-10 to 15°C, 35 to 50°C)
Response time (T ₉₀)	< 60 s
Output	Serial Port (UART) (TTL level 3.3V)
Lifespan	> 15 years
Size	32.3×19.5×11.4 mm

Air Quality VOC Module

- Factory calibrated
- Low power
- High sensitivity

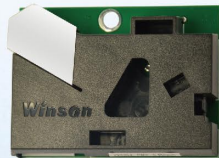


ZP07

Detection target	CH2O, C6H6, CO, H2, C2H5OH, NH3, smoke, essence & etc.
Working voltage	5.0±0.2 V DC
Working current	≤60 mA
Output	TTL level signal (built-in 200Ω protection resistor)
Response time	≤20 s
Working temperature	0 ~ 50 °C
Working humidity	≤95 %RH
Lifespan	> 5 years
Size	24.0×19.9×9.2 mm

Infrad Dust Sensor

- High cost-effectiveness
- Easy to install
- High Stability



ZPH04B

Detection range	0~500 µg/m ³
Particle size range	>1 µm
Accuracy	± 25 % or ± 25 ug/m ³ whichever is greater
Output	UART_TTL output
	PWM output
Working voltage	5.0 ± 0.2 V DC
Working current	< 150 mA
Warm-up time	1 min (Device warming-up time)
Working temperature	0 ~ 50 °C
Working humidity	0 ~ 95 %RH (no condensation)
Physical interface	EH2.54-5P (Terminal socket)
Size	59×45×20 mm

Laser Dust Sensor

- Quick response
- Low cost
- Small size



ZH07

Detection range	0~1000 µg/m ³
Particle size range	0.3~10 µm
Accuracy	0~100 µg/m ³ : ±15 µg/m ³ ; 101~1000 µg/m ³ : ±15 % of reading
Output	UART_TTL output (3.3V level, default)
	PWM output (3.3V level, default)
Working voltage	4.8 ~ 5.5 V DC
Working current	< 120 mA
Response time (T ₉₀)	< 30 s
Working temperature	-10 ~ 60 °C
Working humidity	0 ~ 80 %RH (no condensation)
MTTF	Continuous uninterrupted>10000 h
Size	48.0×40.0×12.5 mm

Electrochemical CH2O Module

- PPB digital reading
- High accuracy
- Fully pre-calibrated



ZE08K

Detection range	0~5 ppm
Working voltage	3.7~5.5V
Resolution	≤0.01 ppm
Response time	≤60 s
Output	DAC (0.4~2V voltage signal corresponding concentration: 0~5PPM)
	UART output (3V TTL level)
Working temperature	-20 ~ 50 °C
Lifespan	5 years (in clean air 18 °C~25 °C)
Size	25.5×23.0×7.0 mm

Electrochemical O3 Module

- PPB level reading
- Temperature compensation
- High sensitivity



ZE25A-O3

Detection range	0~2 ppm
Working voltage	3.7~5.5 V
Resolution	0.001 ppm
Response time	≤90 s
Output	UART output (3V level)
Working temperature	-10 ~ 55 °C
Lifespan	2 years (in air)
Size	25.5×23.0×7.0 mm

Multi-in-one Air Quality Sensor Modules

9-in-1 Air Quality Module

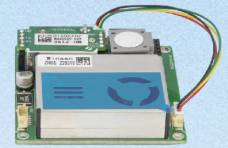


Integrated laser-dust, NDIR-CO₂, electrochemical-HCHO&O₃&CO, MEMS-NO₂, MOX-VOC, temp. & humi. sensors

ZPHS01B

Detection range	CO ₂ : 0~5000 ppm PM2.5: 0~1000 µg/m ³ CH ₂ O: 0~6.250 mg/m ³ O ₃ : 0~10 ppm CO: 0~500 ppm	TVOC: 0~3 grades NO ₂ : 0.1~10 ppm Temperature: -20~65°C Humidity: 0~100%RH
Working voltage	5 V DC	
Average current	< 300 mA	
Output	UART(TTL)	
Working temperature	-10~50 °C	
Size	135.0×50.0×26.2 mm	

5-in-1 Air Quality Module



Integrated laser-dust, NDIR-CO₂, temp. & humi., MOX-VOC or electrochemical-HCHO sensors

ZPHS01C

Detection range	CO ₂ : 400~5000 ppm PM2.5: -0~1000 ug/m ³ CH ₂ O: 0~1.6 ppm TVOC: 4 grades Temperature: 0~65°C
Working voltage	5 V DC
Average current	< 500 mA
Output	UART(TTL)
Working temperature	0~50 °C
Size	62.5×61.0×25.0 mm

Dust, Temp. & Humi., VOC Integrated Module

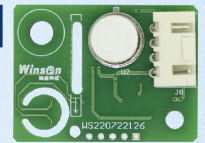


Integrated laser-dust, MEMS-VOC, temp. & humi. sensors, good consistency and stability.

ZH10

PM2.5 size & effective range	0.3~10 µm, 0~1000 µg/m ³
VOC output	0~500 level pollution signal
Output	UART_TTL or PWM output (3.3V level)
Working voltage	5.0±0.5 V DC, ripple ≤50 mV
Working current	< 150 mA
Temperature	-10~60 °C: ±1 °C
Humidity	0~90 %RH (no condensation); ±5 %RH
Size	38.0×35.0×12.0 mm

Digital Type VOC, Temp. & Humi. Module



Good sensitivity to HCHO, benzene, alcohol, CO, NH₃, H₂, cigarette smoke, etc.

ZPS20

Detection range	0~5 ppm
Working voltage	5.0±0.2V DC (No voltage reverse connect protection)
Output	TTL level (200ohm protected resistance inside)
Working current	≤60 mA
Response time	≤20 s
Working temperature	0~50 °C
Working humidity	≤95%RH
Size	24.0×20.0×17.7 mm

Electrochemical HCHO Detection Module



- Temp. & Humi. Compensation
- High resolution
- Excellent linear output

ZE510

Detection range	0~5 ppm
Working Voltage	3.7~5.5 V
Resolution	≤0.01 ppm
Response time	≤60 s
Output	UART output (3V TTL Electrical Level)
Working Temp. & accuracy	-20~50 °C, ±0.5 °C (0 °C ~ 50 °C)
Working Hum. & accuracy	15~90 %RH, ±5 %RH
Lifespan	5 years (in air 18 °C ~ 25 °C)
Size	25.5×23.0×5.3 mm

MEMS Tem. & Humi. Sensor



- Low cost
- Compact size
- High precision

WHT20B

Detection range	0~100 %RH; -40~85 °C
Working voltage	2.0~5.5 V
Resolution	0.01%RH; 0.01°C;
Response time (T63%)	humidity < 8s; temperature 5-30s
Output	Two-wire digital interface, standard I2C protocol
Accuracy	±3.0 %RH; ±0.5°C
Repeatability	±0.1 %RH; ±0.1°C
Lifespan	2 years (in air)
Size	3.0×3.0×1.0 mm

Air Conditioner

HVAC System

Air Purifier

Air Quality Monitors