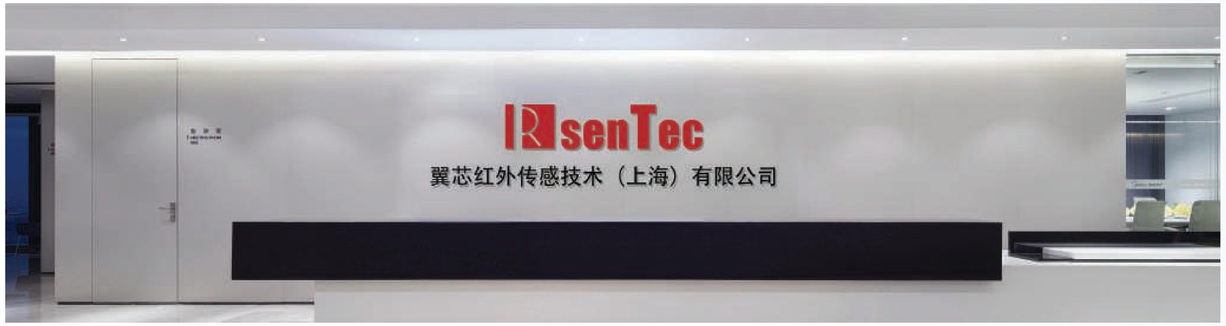
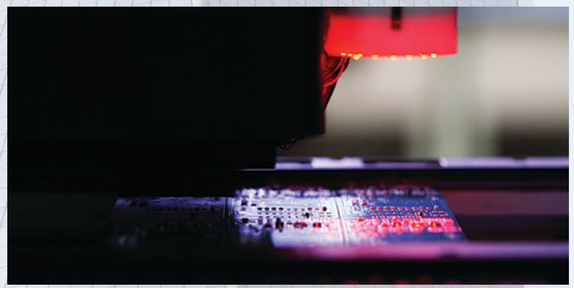



Since its establishment, IRsenTec has relied on Aegis's more than ten years of experience in infrared sensor research and development and production. From basic devices to final products, it is an infrared gas sensor manufacturer with multiple independent intellectual property rights. The company integrates research and development, production and sales, focusing on the technical research and development and industrial development of infrared gas sensing. The company has a high-quality and experienced management and technical team, and the core technical personnel have more than ten years of experience in infrared sensing technology research and development.

We have domestic advanced gas detection and calibration laboratories, environmental laboratories, dust-free clean workshops and numerous testing instruments and proprietary equipment to ensure the quality of our products. The company's current product series includes infrared gas sensors, laser gas sensors, electrochemical gas sensors and their core components, filters, blackbody light sources, pyroelectric sensors and other products. The products are widely used in petroleum, chemical, coal mining, electricity, gas, environmental protection, smart home, consumer electronics and other industries to provide safety for gas and flame detection and early warning.



As a professional infrared gas sensor company, IRsenTec adheres to the core values of "integrity, innovation, and sharing", and is committed to promoting the development of gas infrared detection technology, expanding the application field of gas infrared detection, and protecting the lives and property of customers.

# G4 Infrared Methane Gas Sensor
# Infrared Carbon Dioxide Sensor




## Product Introduction

G4 infrared gas sensor is an intelligent micro gas sensor designed based on NDIR principle. It uses the absorption characteristics of gas to a specific infrared spectrum to measure concentration. It has no oxygen dependence and catalytic sensor poisoning phenomenon, long life, high accuracy and stable performance. The sensor has both analog and digital signal output interfaces, and can directly output linearized and temperature compensated gas concentration value signals, making it easier to use.

## Application

G4 infrared gas sensor can measure gases including methane, carbon dioxide and hydrocarbon combustible gases, with a maximum range of 100% VOL. This sensor meets the requirements of "GB15322 Combustible Gas Detector", "AQ 6211-2008 Non-dispersive Infrared Methane Sensor for Coal Mines" and "AQ 1052-2008 General Technical Conditions for Carbon Dioxide Sensors for Mines", and can be used in industrial plants, traffic tunnels, energy and electricity, petroleum and petrochemical, coal mine tunnels, gas extraction and other hazardous environments, as well as more industrial environmental health and safety monitoring.





## Technical Parameters

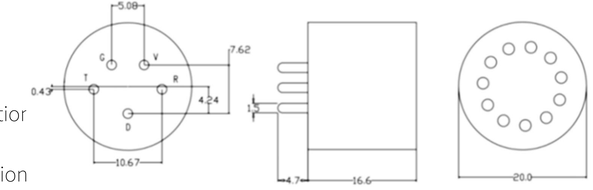
| | |
|---|---|
| Gas type range | Methane, carbon dioxide, propane, isobutane, acetylene, ethanol, nitrous oxide, hydrocarbon combustible gases, etc. |
| Detection range | Range from 0~2000ppm to 100%vol, please refer to the data sheet for more ranges |
| Input voltage | 3.0 ~ 5.5 VDC |
| Working current | Average < 70 mA, peak < 140 mA; @ 3VDC |
| Analog signal output | Analog voltage 0.4 ~ 2.0 V, support fault and over-range voltage output |
| Digital signal output | TTL level |
| Working temperature | Wide to -40 °C ~ 70 °C, subject to the data sheet |
| Working humidity | 0% RH ~ 98% RH (no condensation) |
| Protection level | IP65 |
| More performance data | Please refer to the data sheet |

## Features

- The measuring range can reach 0~100%VOL;
- Linear and temperature compensated data output;
- Digital and analog signal output modes;
- -40°C~70°C wide temperature working range;
- High precision, long life, long-term stability and easy calibratior
- No "poisoning", no oxygen dependence, long service life;
- Ex ia I Ma and Ex ia  II C T4 Ga dual explosion-proof certification

## Product Size

Unit: mm




Top view  Side View  Bottom view

# G4P Infrared Gas Sensor


## Product Introduction

G4Plus infrared gas sensor is an intelligent micro gas sensor designed based on the NDIR principle. It uses the absorption characteristics of gas to a specific infrared spectrum to measure concentration. It has no oxygen dependence and catalytic sensor poisoning phenomenon, long life, high accuracy and stable performance. The sensor has both analog and digital signal output interfaces, and can directly output linearized and temperature-compensated gas concentration value signals, making it easier to use.

## Application

G4Plus infrared gas sensor can measure gases including methane, carbon dioxide and hydrocarbon combustible gases, with a maximum range of 100%VOL. This sensor meets the requirements of "GB 15322 Combustible Gas Detector", "AQ 6211-2008 Non-dispersive Infrared Methane Sensor for Coal Mines" and "AQ 1052-2008 General Technical Conditions for Carbon Dioxide Sensors for Mines", and can be used in industrial plants, traffic tunnels, energy and electricity, petroleum and petrochemical, coal mine tunnels, gas extraction and other hazardous environments, as well as more industrial environmental health and safety monitoring.







## Technical Parameters

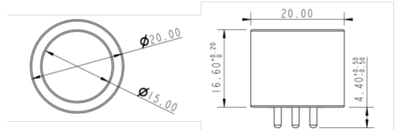
| | |
|---|---|
| Gas type range | Methane, carbon dioxide, nitrous oxide, hydrocarbon combustible gases, etc. |
| Detection range | Range as small as 0~2000ppm, as large as 100%vol, please refer to the data sheet for more ranges |
| Input voltage | 3.0 ~ 5.5 VDC |
| Working current | Average < 70 mA, peak < 140 mA; @ 3VDC |
| Analog signal output | Analog voltage 0.4 ~ 2.0 V, support fault and over-range voltage output |
| Digital signal output | TTL level |
| Working temperature | Wide to -40 °C ~ 70 °C, subject to the data sheet |
| Working humidity | 0% RH ~ 98% RH (no condensation) |
| Protection level | IP65 |
| More performance data | Please refer to the data sheet |

## Features

- Higher actual resolution (compared to G4);
- Faster response time (compared to G4);
- More stable long-term performance (compared to G4);
- Full-scale temperature compensation, wide temperature operating range: up to -40 – 70°C;
- Long-term stability, easy calibration;
- No "poisoning", no oxygen dependence, long service life;
- Ex ia I Ma and Ex ia IIC T4 Ga dual explosion-proof certification.

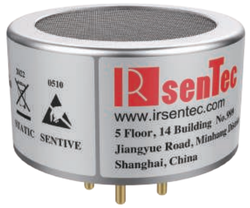
## Product Size

Unit: mm




Top view Side View Bottom view

# G7 Sulfur Hexafluoride Gas Sensor




## Product Introduction

The G7 series gas sensor uses NDIR non-dispersive infrared principle technology to detect SF6 gas. It is designed for SF6 leak detection and monitoring. The advanced infrared sensor has excellent linearity and repeatability, ensuring long-term stable and reliable measurement. The G7-SF6 sensor is highly selective for gas and is not affected by gases such as H2O, alcohol, and CO2. The sensor also has a long service life and is maintenance-free. The sensor is compact and small, and has UART (TTL) level digital output and analog output interfaces, which can be quickly and easily integrated into SF6 leak monitoring systems and leak detection instruments.

## Application

Environmental testing;
SF6 gas leakage warning;
Online monitoring;
Gas composition analysis.







## Technical Parameters

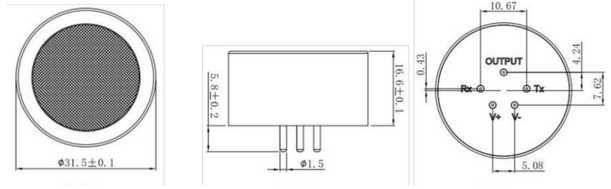
| | |
|---|---|
| Gas type range | SF6 |
| Detection range | 0~2000ppm, 3000ppm, please refer to the data sheet for more ranges |
| Input voltage | 3.0 ~ 6VDC |
| Working current | Average < 45mA, peak < 180 mA |
| Analog signal output | Analog voltage 0.4 ~ 2.0 V, support fault and over-range voltage output |
| Digital signal output | TTL level |
| Working temperature | Wide to -20 °C ~ 60 °C, subject to the data sheet |
| Working humidity | 0% RH ~ 95% RH (no condensation) |
| Protection level | IP65 |
| Optional models | G7, G7L, G7C, please refer to the data sheet for more details |
| More performance data | Please refer to the data sheet |

## Features

- Non-dispersive infrared technology (NDIR);
- High precision, long life, long-term stability and easy calibration;
- Wide range, up to 3000ppm;
- Temperature compensation, linearized data output;
- Digital and analog signal output modes;
- -20°C~60°C wide temperature operating range;
- Compact structure, easy to integrate.

## Product Size

Unit: mm




Top view　　Side View　　Bottom view

# G7 Refrigerant Infrared Gas Sensor


## Product Introduction

The G7 series gas sensor uses NDIR non-dispersive infrared principle technology to detect refrigerant gas. It is designed for refrigerant leak detection and monitoring. The advanced infrared sensor has excellent linearity and repeatability, ensuring long-term stable and reliable measurement. This sensor is highly selective for gas and is not affected by gases such as H2O, alcohol, and CO2. The sensor also has a long service life and is maintenance-free. The sensor has a compact structure and is equipped with UART (TTL) level digital output and analog output interfaces, which can be quickly and easily integrated into gas leak monitoring systems and leak detection analysis instruments.

## Application

Environmental testing;
Refrigerant gas leakage warning; Online monitoring;
Gas composition analysis.







## Technical Parameters

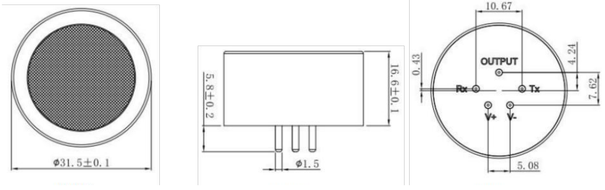
| | |
|---|---|
| Gas type range | R32, R134a, etc. |
| Detection range | 0~2000ppm, please refer to the data sheet for more ranges |
| Input voltage | 3.0 ~ 6VDC |
| Working current | Average < 45mA, peak < 180 mA |
| Analog signal output | Analog voltage 0.4 ~ 2.0 V, supports fault and over-range voltage output |
| Digital signal output | TTL level |
| Working temperature | Wide to -20 °C ~ 60 °C, subject to the data sheet |
| Working humidity | 0% RH ~ 95% RH (no condensation) |
| Protection level | IP65 |
| More performance data | Please refer to the data sheet |

## Features

- Non-dispersive infrared technology (NDIR);
- High precision, long life, long-term stability and easy calibration;
- High-precision design for leak detection analysis;
- Temperature compensation, linearized data output;
- Digital and analog signal output modes;
- -20°C~60°C wide temperature operating range;
- Compact structure, easy to integrate.

## Product Size

Unit: mm




Top view Side View Bottom view

G7 Series

# G8 Infrared Gas Sensor

## Product Introduction

G8 is an intelligent micro gas sensor designed based on the NDIR non-dispersive infrared principle for detecting CO2 concentration. It adopts industrial-grade optical path and has the advantages of compact structure, high accuracy and good long-term stability. It can be embedded in various instruments or environmental improvement equipment related to carbon dioxide concentration to provide timely and accurate concentration values. The sensor adopts the modbus communication protocol and has interfaces such as UART and PWM. It is widely used in indoor air quality detection and fresh air systems, and is applied to indoor air quality, heating, ventilation and air conditioning systems, environmental monitoring, green buildings and other scenarios.

## Application

Indoor air testing;
Fresh air system;
Environmental monitoring;
Greenhouse gas testing.

## Features

- Detect CO2 concentration based on the principle of non-dispersive infrared gas detection;
- (PACal) periodic automatic calibration, (MCal) manual calibration;
- Comply with ROHS environmental protection requirements;
- High precision, long life, long-term stability and easy calibration.



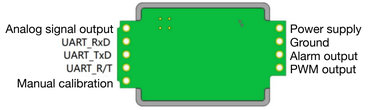




## Technical Parameters

| | |
|---|---|
| Gas type range | CO2 |
| Detection range | 0 (400) ~ 2000ppm, 5000ppm, expandable to 10000ppm, please refer to the data sheet for more ranges |
| Input voltage | 4.5 ~ 5.25VDC |
| Working current | Average < 30mA, peak < 300 mA |
| Digital signal output | TTL level |
| PWM, 1004ms | Concentration = (PWM-2) × 2 (range 2000ppm), 3,3V push-pull output |
| Working temperature | 0 ~ 50 °C, subject to the data sheet |
| Working humidity | 0% RH ~ 95% RH (no condensation) |
| Optional models | G8S, G8C, G801C, please refer to the data sheet for more details |
| More performance data | Please refer to the data sheet |

## Pin Package Type (Different Models)

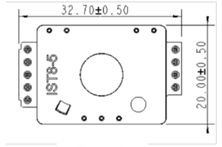



G8S

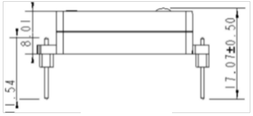

G8C


G801C

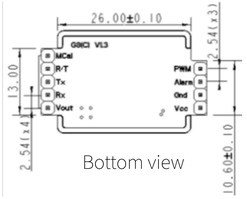
## Product Size




Top view




Front View




Bottom view

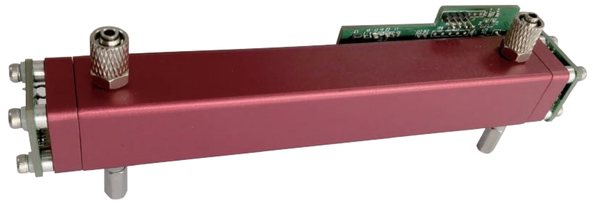
Unit: mm



G8 Series

# G12

## Analytical Grade Infrared Gas Sensor





## Product Introduction

Infrared gas analysis sensors have higher detection accuracy and sensitivity, and at the same time have the advantages of simple structure, easy installation, stability and reliability.

## Features

- High precision and high resolution;
- The measuring range can reach 0~100%VOL;
- Linear and temperature compensated data output;
- Digital and analog signal output modes.
- -40°C~70°C wide temperature operating range;
- High precision, long life, long-term stability and easy calibration;
- No "poisoning", no oxygen dependence, long service life.

## Application

Gas analysis instruments;
Environmental monitoring.

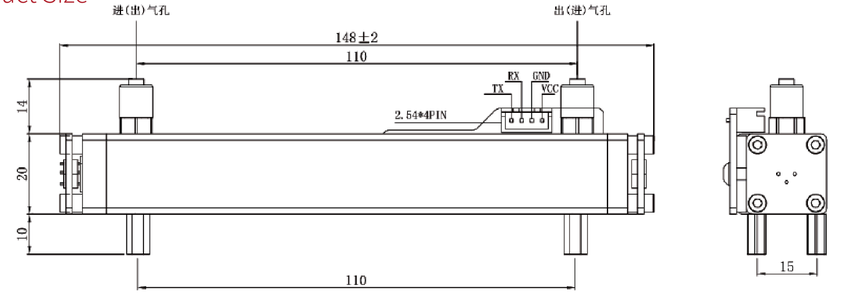




## Technical Parameters

| | |
|---|---|
| Gas type range | CH4, CO2, SF6, R32, etc. |
| Detection range | 0~100%VOL, please refer to the data sheet for more ranges |
| Input voltage | 3.3 ~ 5.5VDC |
| Working current | Average < 70mA, peak < 140 mA; @5VDC |
| Analog signal output | Analog voltage 0.4 ~ 2.0 V, supports fault and over-range voltage output |
| Digital signal output | TTL level |
| Working temperature | -40 ~ 70 °C, subject to the data sheet |
| Working humidity | 0% RH ~ 95% RH (no condensation) |
| More performance data | Please refer to the data sheet |

## Product Size

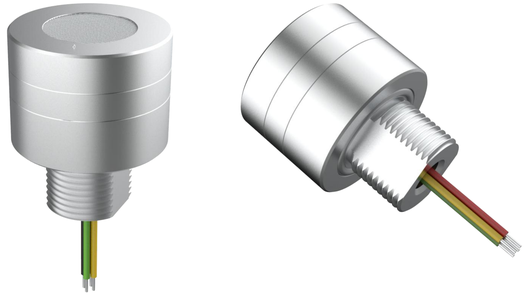



Unit: mm

The installation hole size is 109*15mm, the body has a reserved M3 internal thread, and comes standard with 4 M3*10 copper studs

G12 Series

# G13 Laser Gas Sensor



## Product Introduction

The G13 laser gas sensor is an intelligent gas sensor designed based on the principle of tunable laser absorption spectroscopy (TDLAS). It uses the absorption characteristics of gas to specific lasers to measure concentration. It is not affected by humidity, has a long life, high accuracy, strong selectivity, and stable performance. The sensor can directly output a linearized and temperature-compensated gas concentration value signal. Users do not need to process the gas chamber when using it, and it can be directly connected to the instrument housing with threads, making it easier to use.

## Features

- Unique selectivity for the gas to be measured;
- The measuring range can reach 0~100%VOL;
- Linear and temperature compensated data output;
- Digital and analog signal output modes;
- -20°C~60°C wide temperature operating range;
- High precision, long life, long-term stability and easy calibration;
- Explosion-proof certification.

## Application

Industrial gas leakage monitoring;
Coal mine safety monitoring;
Underground well environment monitoring.



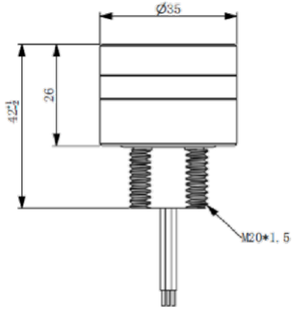




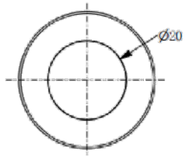
## Technical Parameters

| | |
|---|---|
| Gas type range | Methane |
| Detection range | 0~5%vol, 100%vol, please refer to the data sheet for more ranges |
| Input voltage | 3.0 ~ 5.5 VDC |
| Working current | Average < 50 mA, peak < 100 mA |
| Digital signal output | TTL level |
| Working temperature | Wide to -20 °C ~ 60 °C, refer to the data sheet |
| Working humidity | 0% RH ~ 98% RH (no condensation) |
| Protection level | IP65 |
| More performance data | Please refer to the data sheet |

## Product Size




Side View

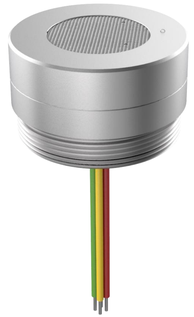


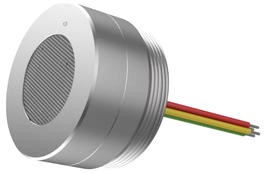

Top view

Unit: mm

G13 Series

# G13 Compact Laser Gas Sensor







## Product Introduction

The G13 laser gas sensor is an intelligent gas sensor designed based on the principle of tunable laser absorption spectroscopy (TDLAS). It uses the absorption characteristics of gas to specific lasers to measure concentration. It is not affected by humidity, has a long life, high accuracy, strong selectivity, and stable performance. The sensor can directly output a linearized and temperature-compensated gas concentration value signal. Users do not need to process the gas chamber when using it, and it can be directly connected to the instrument housing with threads, making it easier to use.

## Features

- Unique selectivity for the gas to be measured;
- The measuring range can reach 0~100%VOL;
- Linear and temperature compensated data output;
- Digital and analog signal output modes;
- -20°C~60°C wide temperature operating range;
- High precision, long life, long-term stability and easy calibration;
- Explosion-proof certification.

## Application

Portable gas detection instrument;
industrial gas leakage monitoring;
coal mine safety monitoring;
underground well environment monitoring.

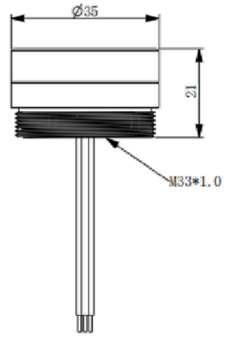




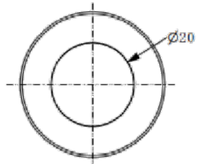
## Technical Parameters

| | |
|---|---|
| Gas type range | Methane |
| Detection range | 0~5%vol, 100%vol, please refer to the data sheet for more ranges |
| Input voltage | 3.0 ~ 5.5 VDC |
| Working current | Average < 50 mA, peak < 100 mA |
| Digital signal output | TTL level |
| Working temperature | Wide to -20 °C ~ 60 °C, refer to the data sheet |
| Working humidity | 0% RH ~ 98% RH (no condensation) |
| Protection level | IP65 |
| More performance data | Please refer to the data sheet |

## Product Size




Side View




Top view

Unit: mm

G13 Series

# G3 Gas Sensors


## Product Introduction

The G3 gas sensor is designed based on the electrochemical principle. It uses the current generated by the oxidation or reduction of the target gas at the electrode to calculate the target gas concentration. The sensor is a standard four-series sensor with small size, high sensitivity and easy integration.

## Application

Portable gas detection instrument;
Gas leak monitoring;
Environmental monitoring.



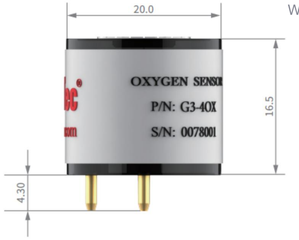




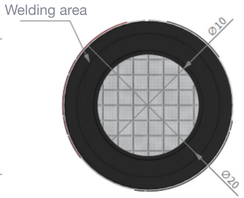
## Technical Parameters

| | |
|---|---|
| Gas type range | Oxygen, carbon monoxide |
| Detection range | Please refer to the data sheet for range |
| Zero pressure current (compensation) | ＜0.6%volO2 |
| Output signal in air | 100±30μA |
| Linearity | Good linearity |
| Response time | T90＜30s |
| Maximum overload | 30%volO2 |
| Drift | ＜5% per year |
| Recommended load resistance | 100Ω |
| Shelf life | 2 years |
| More performance data | Please refer to the data sheet |

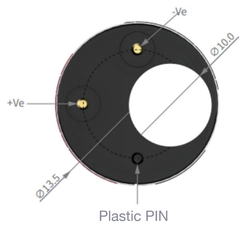
## Product Size




Side View




Top view




Bottom view

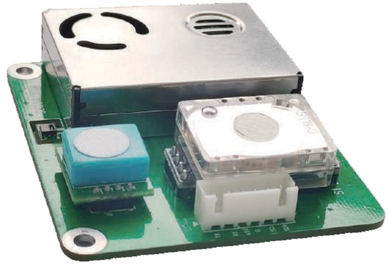
Unit: mm

Tolerance ±0.15mm

Pin diameter = 1.50mm

# G805C

## All-in-One Sensor Module



## Product Introduction

G805C is a cost-effective, multi-parameter five-in-one gas sensor integrated module that can monitor and display carbon dioxide (CO2), formaldehyde, PM2.5 particles, temperature/humidity concentration values in real time. It has stable performance, beautiful design, complete functions, and rich interfaces. It is widely used in air purifiers, fresh air systems, smart homes, air quality detectors, and consumer electronic products.

## Features

- Can output multiple indicators such as CO2, HCHO, PM2.5, T&RH, etc. at the same time;
- Quick response; Low power consumption;
- Good long-term stability.

## Application Environment

Pharmaceutical industry; Electronic industry; Food processing; Clean room for finishing; Precision testing area; Fresh air system; Central air conditioning; Air quality testing; Air quality testing.

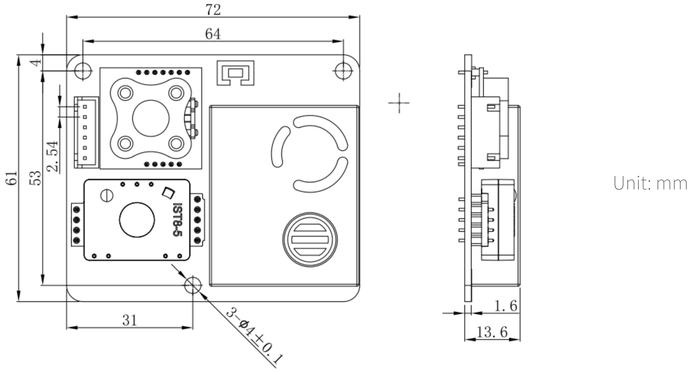




## Technical Parameters

| | |
|---|---|
| Gas type range | Carbon dioxide, formaldehyde, PM2.5, temperature, humidity |
| Interference gas | Alcohol, carbon monoxide and other gases |
| Working voltage | 5 VDC |
| Average current | ＜135mA |
| Output signal | UART |
| Warm-up time | ⩽5min |
| CO2 range | 0~5000ppm |
| PM2.5 range | 0~1000μg/m3 |
| Formaldehyde range | 0~1500μg/m3 |
| Temperature | Temperature range: 0~125°C; Temperature accuracy: ±0.3°C; Working temperature: 0~50°C; Storage temperature: 0°C~50°C |
| Humidity | Humidity range: 0~100%RH; Humidity accuracy: ±2%RH;<br>Working humidity: 0~80%RH (no condensation); Storage humidity: 0~90%RH |

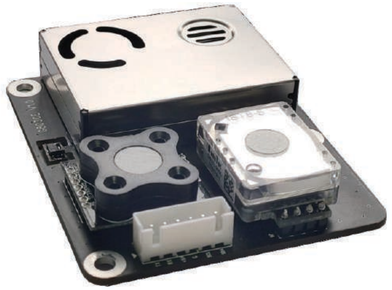
## Product Size




Unit: mm

# G805CE

## All-in-One Sensor Module





## Product Introduction

G805CE is a cost-effective, multi-parameter five-in-one gas sensor integrated module that can monitor and display carbon dioxide (CO2), formaldehyde (imported brand), PM2.5 particles, temperature/humidity concentration values in real time. It has stable performance, beautiful design, complete functions, and rich interfaces. It is widely used in air purifiers, fresh air systems, smart homes, air quality detectors, and consumer electronic products.

## Features

- Five sensors are available for selection;
- Can output multiple indicators such as CO2, HCHO, PM2.5, T&RH, etc. simultaneously;
- Quick response; Low power consumption;
- Good long-term stability.

## Application Environment

Pharmaceutical industry; Electronic industry; Food processing; Clean room for finishing; Precision testing area; Fresh air system; Central air conditioning; Air quality testing; Air quality testing.

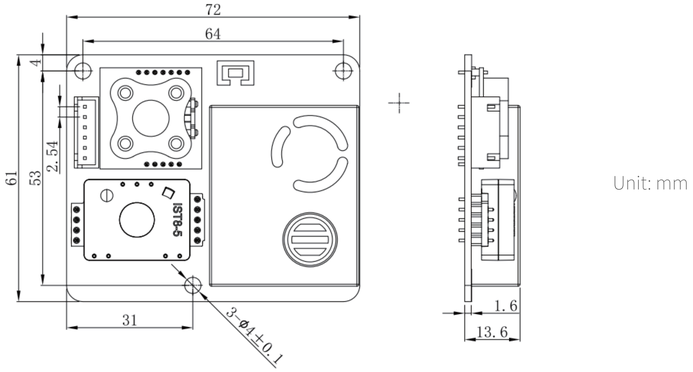




## Technical Parameters

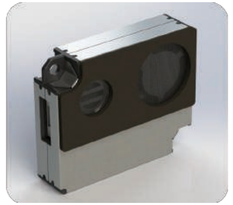
| | |
|---|---|
| Gas type range | Carbon dioxide, formaldehyde, PM2.5, temperature, humidity |
| Interference gas | Alcohol, carbon monoxide and other gases |
| Working voltage | 5 VDC |
| Average current | ＜135mA |
| Output signal | UART |
| Warm-up time | ⩽5min |
| CO2 range | 0~5000ppm |
| PM2.5 range | 0~1000ug/m3 |
| Formaldehyde range | 0~1000ug/m3 |
| Temperature | Temperature range: 0~125°C; Temperature accuracy: ±0.3°C; Working temperature: 0~50°C; Storage temperature: 0°C~50°C |
| Humidity | Humidity range: 0~100%RH; Humidity accuracy: ±2%RH;<br>Working humidity: 0~80%RH (no condensation); Storage humidity: 0~90%RH |

## Product Size




Unit: mm

# AI5008 Particle Sensor
# AI5008B



AI5008

AI5008B



## Product Introduction

AI5008/AI5008B particle sensors are laser digital particle detection sensors that can be used to detect tiny particles in indoor and outdoor air. The sensors contain lasers and photoelectric receivers. They use the principle of light scattering to scatter light on dust particles through lasers and convert it into an electrical signal through a photoelectric converter. The mass concentration of particles is calculated by the particle concentration software algorithm. The AI5008 sensor comes with foam and filter, while the AI5008B does not come with foam and filter.

## Features

- Laser scattering detection principle; detection range: 0~1000μg/m3;
- Response time: <4s; power supply current: maximum 80mA;
- Output signal: UART TTL; compatible with RoHS and REACH standards;
- Real-time detection output; accurate and reliable data;
- Minimum resolution particle 0.3 microns; specific laser anti-attenuation constant brightness function;
- With anti-interference ability; standard TTL serial port data output.

## Application Environment

Air purifier; fresh air system;
air conditioner; car air purifier;
air quality detector;
environmental testing;
handheld air quality detector.



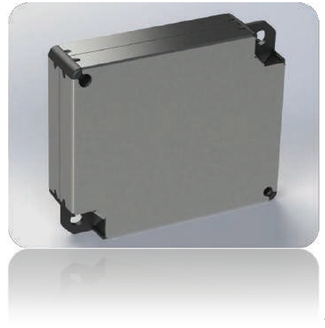


## Technical Parameters

| | |
|---|---|
| Particle measurement range | PM2.5 (PM10 |
| Particle mass concentration effective range | 0~1000μg/m3 |
| Particle mass concentration consistency | ⩾100ug/m3; |
| "Particle mass concentration accuracy (reference standard: TST 8530)" | ⩾100ug/m3; |
| Data interface | UART TTL, 9 |
| Power supply voltage | DC5±0.5V, r |
| Working environment | Temperature |
| Storage environment | Temperature |
| MTBF | ⩾30000H |
| Intermittent mode | Depends on |

## Performance Indicators

Rigorously tested in various harsh environments, with reliable accuracy;
Can monitor and control environmental particulate pollution economically and accurately;
Average life: 3000 hours of continuous operation;
Provide PM2.5 output via UART;
Precise operation to ensure that the product achieves its intended functions.




# H20-CO2

## Infrared Carbon Dioxide Monitor (NB-IoT)

### Product Introduction

H20-CO2 carbon dioxide monitor is a professional detection equipment used to monitor indoor air quality. It uses independently developed high-precision, high-stability NDIR infrared sensor as the core detection device. The service life is 2~3 times that of traditional products, and can be used for up to 10 years under normal use. This product can be widely used in various indoor environments, such as offices, classrooms, computer rooms, bedrooms and other environments.

The product design is fashionable and the installation and operation are simple and fast. It has a built-in NB-IoT communication module and is connected to the "smart" Internet of Things network. It can be remotely operated (via mobile phone or computer) and linked with fresh air equipment and air purification equipment to achieve 24-hour full-time project monitoring, fresh air and purification equipment linkage, smart home and other project requirements.

### Features

- The average service life is 2~3 times that of traditional products, and can reach 10 years under normal use;
- Specially designed for real-time monitoring and control of indoor CO2 concentration;
- Built-in NDIR type CO2 infrared sensor with self-calibration system, more accurate and reliable measurement;
- White digital tube displays CO2 measurement value;
- Three-color bar light (green/yellow/light) indicates ventilation status, good/moderate/poor status;
- It has 1 relay output for controlling ventilation equipment;
- Touch the button for easy operation;
- Optional NB-IoT communication module, connected to the "smart home" network, can be controlled remotely (mobile phone, computer);
- Excellent workmanship, suitable for home and office use.







### Technical Parameters

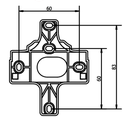
| | |
|---|---|
| Detection gas | Carbon dioxide (CO2) |
| Detection principle | NDIR infrared |
| Sensor life | 10 years (normal use) |
| Air intake method | Free diffusion |
| Display resolution | 1μmol/mol |
| Measurement accuracy | ±50μmol/mol+3% reading @25°C |
| Measurement range | 0~2000μmol/mol |
| Response time | T90＜30s |
| Warm-up time | 3min |
| Signal refresh interval | 4s |

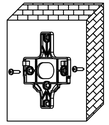
| | |
|---|---|
| Power consumption | ＜3w |
| Operating voltage | 100~240V AC |
| Signal output | "1 set of relay normally open contact outputs 3A/250V AC or 3A/30V DC or 1 set of capacitor pulse active outputs 1.5A/ 15V~24V DC drive solenoid valve" |
| Communication mode | NB-IoT wireless communication (optional) |
| Operation mode | Touch button |
| Working temperature | 0°C~50°C |
| Humidity range | 0%~95%RH (no condensation) |

### Application Environment

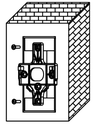
Hotels
Shops
Train stations
Apartments
Conference rooms
Restaurants
Exhibition halls
Ventilation systems
Hospitals
Airports
Classrooms and other rooms
Offices
Villas
Theats
Other public places

### Installation Diagram

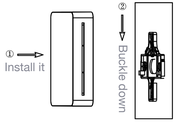


Wall drilling installation



Embedded box installation




Install it and then buckle it down

# Product CatalogI

| Classification | Product Name | Measuring gas |
|---|---|---|
| Gas Sensors | G3 Electrochemical Gas Sensor | Carbon monoxide, oxygen |
| | G4 Infrared Gas Sensor | Methane, carbon dioxide, propane, isobutane, acetylene, ethanol, nitrous oxide, hydrocarbon combustible gas, etc. |
| | G4Plus Infrared Gas Sensor | Methane, carbon dioxide, nitrous oxide, hydrocarbon combustible gas, etc. |
| | G7-SF6 Infrared Gas Sensor | Sulfur hexafluoride |
| | G7-Refrigerant Infrared Gas Sensor | R32, R134a, etc. |
| | G8 Infrared Gas Sensor | Carbon dioxide |
| | G12 Infrared Gas Sensor | Methane, carbon dioxide, sulfur hexafluoride, etc. |
| | G13 Laser Gas Sensor | Methane |





# Product Catalog II

| Classification | Product name | Measuring gases |
|---|---|---|
| All-in-one module | G805C five-in-one sensor module | Carbon dioxide, formaldehyde, particulate matter, temperature, humidity |
| | G805CE five-in-one sensor module | Carbon dioxide, formaldehyde, particulate matter, temperature, humidity |

| Classification | Product Name | Measuring gas |
|---|---|---|
| Particle sensor | AI5008 | PM2.5 (PM10 optional) |
| | AI5008B | PM2.5 (PM10 optional) |

| Classification | Product Name | Measuring gas |
|---|---|---|
| Freestanding household products | H20-CO2 Infrared Carbon Dioxide Monitor | CO2 |