

Sensor Solutions-Environmental Appliance

Air Purifier, Air Disinfection Machine



Quick Response
High Accuracy



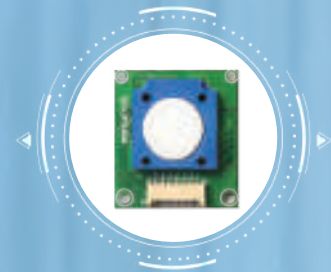
Meet Multiple Installation Needs
of Air Inlet & Outlet Orientations



Provides Multiple
Integration Solution

In recent years, more and more environmental appliances such as air purifiers have appeared in people's life. For environmental appliances, "health" and "intelligence" are the two major themes which are continuously deepened under the dual drives of technology progress and updated consumption demand. Resulting from consumers' concerns about indoor formaldehyde, particulate matter (PM), influenza viruses and other air pollutants, sensors to detect different pollutants are widely used in various environmental appliances. New consumer demand and market innovation also put forward higher requirements for sensors.

For this field, Winsen has a variety of products such as PM sensors, formaldehyde sensors, ozone sensors, air quality sensors, ambient temperature and humidity sensors, etc. It provides professional sensor solutions to support the expansion of the environmental appliances and the increase of market opportunities.



Ozone Sensor ZE25-O3

- High sensitivity & resolution
- UART / analog voltage output
- Excellent stability & linearity



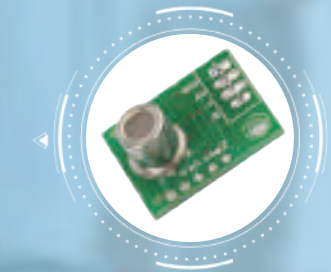
MEMS Temp. & Humi. Module ZS13

- High sensitivity
- Serial / PWM output
- Excellent stability



Particulate Matter Sensor ZPH04

- High sensitivity
- Modular design
- Multiple output ways



10-Grade Air Quality Module ZP07

- Ultra high sensitivity
- Calibrated, faulty auto-check
- Long life, cost effective



Electrochemical HCHO Module ZE08K-CH2O

- Excellent anti-interference
- High sensitivity, high resolution
- Long lifespan, high stability

Sensor Solutions-HVAC System



Low Power Consumption
Long Lifespan, Cost Effective



Multiple Output ways
Easy to Use



High Sensitivity
Great Consistency

As people pay more and more attention to air quality and life experience, the demand for air purification equipment has gradually increased. Air purifiers and HVAC system have become daily-use equipment, and HVAC system has become one of the indispensable devices in many indoor places.

The use of various sensors has made the intelligent control of the HVAC system a mainstream developing trend. Air quality sensor, PM2.5 sensor, carbon dioxide sensor, formaldehyde sensor, temperature & humidity sensor, and ozone sensor have become standard configuration for HVAC systems. One way is to use sensors in the separate detector, which can display the data of various monitoring indicators in real time, and then realize the linkage control with HVAC system through wireless connection; another is to integrate sensors in the host of HVAC, and through setting various parameters, it can realize the automatic start and stop, change of air volume , etc.

Winsen has developed series of sensors widely used in HVAC system for real-time detection, like CO2 sensor, air quality sensor, etc.



MEMS Temp. & Humi. Module ZS13

- High sensitivity
- Serial / PWM output
- Excellent stability



VOC+ Temp. & Humi. Module ZPS20-VOC

- High sensitivity
- Excellent stability
- IIC output, easy to use



Particulate Matter Sensor ZH10

- Real time response
- Accurate data, anti-interference
- Compatible with VOC, T & H output



CO2 Gas Sensor MH-Z1911A

- High sensitivity and stability
- Temperature compensation
- Excellent linear output

Sensor Solutions-Fresh Air Conditioner



Accurate Data and Good Consistency



Professional Algorithm and Calibration Process



Strong Anti-interference High Stability

With the high development of science and technology, people's demand for intelligent air-conditioning products is increasing. Intelligent air-conditioning products not only bring comfort and convenience to our life, but also gradually redefine people's lifestyle. In recent years, household air conditioners have experienced waves of competition such as clean trend, comfort trend, and sterilization trend.

In different subdivisions, consumers' demands for healthy air conditioners are constantly upgraded to be more diversified and multi-level with the renewal of life concepts and life styles. Today, fresh air conditioners have become from concept to reality. With the overall increase in market share, competition in this field will continue to heat up.

As a professional sensor company, Winsen provides a variety of sensor solutions for intelligent air conditioners, including refrigerant leakage sensor, particulate matter sensor, carbon dioxide sensor, formaldehyde sensors, temperature humidity sensor, air quality sensor and multi-in-one integrated gas sensors solutions.



Sensor Solutions-Air Quality Monitor



Low Power Consumption

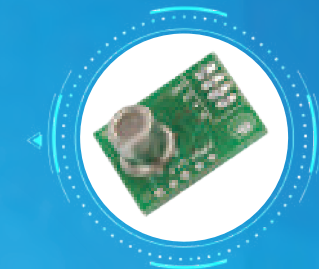


Design Solution for Complex Structure

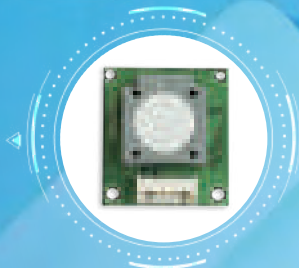
With the improvement of our life, more and more people begin to pay attention to the air quality of their living environment. With more than 20 years of experience, Winsen has accumulated profound and extensive professional knowledge in the sensor market. In addition to a variety of air quality detection modules for parameters such as PM2.5, CO2, HCHO, VOC, temperature and humidity, Winsen is also able to provide highly competitive technical support by integrating sensor technology and systematic solution thinking in the overall design.



Multi-in-One Air Quality Module
ZPHS01C



4-Grade Air Quality Module
ZP07-MP503



HCHO Sensor Module
ZE08-HCHO



MEMS Temp. & Humi. Module
ZS13



Laser Particulate Matter Sensor
ZH07



CO2 Gas Sensor
MH-Z1911A



Sensor Solutions-Range Hood, Stove, Integrated Stove



Fast Response



High Sensitivity
High Resolution



Multiple Output Methods
Easy to Use

In order to meet the ever-increasing demand and to better protect consumers' rights in healthy cooking, many mainstream companies have successively launched gas stoves with certain protection and intelligent functions, such as anti-dry cooking and automatic flameout, intelligent linkage with range hood, smart integrated stoves, etc. Intelligence, integration, and modular have become the main trend of the range hood industry.

From the perspective of safety, the sensor can realize gas leakage detection, non-contact temperature measurement and dry burnt protection. From the perspective of health, the soot particles produced by cooking not only affect the household air quality but also endanger family health. Kitchen particulate matter detection and air quality monitoring are the new requirements for improving consumer experience and product iterative upgrading.



10-Grade Air Quality Module ZP07

- Ultra high sensitivity
- Calibrated, faulty auto-check
- Long life, cost effective



Particulate Matter sensor ZH07

- Real time response
- Accurate output data
- Min. detection particle 0.3 μm



Non-contact Anti-Dry Burnt Probe

- Non-contact, high accuracy
- Strong corrosion resistance
- Long life, use for gas stove



Combustible Gas Leakage Module ZC13

- Quick response
- Serial port upload
- Long life, small size



Dry Burnt Protection Module MRT-313

- TO-39 package, specific view
- Fast response, great stability
- High NTC accuracy

Sensor Solutions-Kitchen Cooling Fan



Quick Response
High Accuracy



Meet Different Directions
of Inlet and Outlet



Provides Multiple
Integration Solutions

The most troublesome area in the home must be the kitchen which is hot, humid, and full of oil fume and easy to breed mosquitoes. In order to solve these problems, a corresponding product- Kitchen Cooling Fan has appeared on the market. In recent years, the cooling fan has gradually become the "standard equipment" in our kitchen.

The cooling fans on current market are all integrated with the function of lighting and many additional functions, which are good looking and take small space. For example, adding odor sensor can help to realize the functions of automatic ventilation, deodorization and sterilization.



Smoke Module ZP13

- Ultra high sensitivity
- Excellent long-term stability
- Calibrated, 3MIN preheat judgement

Odor Sensor MP503

- High sensitivity, long life
- Quick response and resume
- Simple detection circuit

Odor Module ZP07

- Ultra high sensitivity
- Calibrated, faulty auto-check
- Long life, cost effective