

iAeris 2

IAQ Detector



Good Indoor Air Quality Healthy Deep Breathing

iAeris2 Indoor Air Quality Detector is a versatile device that monitors key indoor air quality factors like CO₂, PM_{2.5}, TVOC, temperature, and humidity in real-time, offering up to 9 measurements.

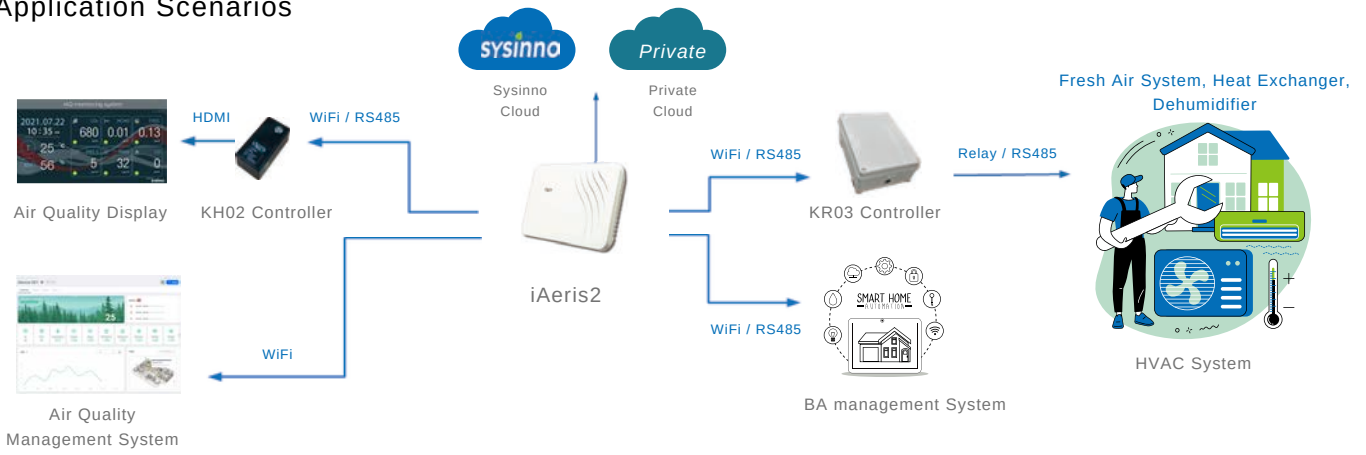
The iAeris2 provides accurate air quality monitoring with smart features. It integrates with HVAC systems, including air conditioning, ventilation, heat exchange, and dehumidification units, through our IoT controller. When indoor air quality reaches poor levels, the system introduces fresh air to swiftly improve the indoor environment.

The iAeris2 Indoor Air Quality Detector is your reliable assistant in indoor environment management, ensuring your living and working spaces remain comfortable and worry-free.

Product Features

- **Wall-mount design:** Compact, easy install, sleek look.
- **Modular sensors:** Expandable as needed.
- **Advanced algorithms:** independent sensor calibration.
- **Multiple interfaces:** RS485, optional WiFi, and Bluetooth BLE4.0 for flexible data transmission.
- **Dual power input:** Supports micro USB and DC 12~24V/0.5A power sources.
- **Alert:** Individual adjustment for air quality factor alerts
- **Built-in memory:** easy data storage and analysis

Application Scenarios



Specification

Measurement Index	Operating Range	Resolution	Accuracy (*)	Detection Method	Response time	Warmup time
Temperature	-40~125 °C	0.1 °C	±0.5°C	MEMS	30 sec	60 sec
Humidity	0~100% RH	1% RH	± 5% RH	MEMS	30 sec	60 sec
CO2	0~5,000 ppm	1 ppm	±30ppm±3% of reading	NDIR	120 sec	60 sec
PM2.5	0~1000 µg/m3	1 µg/m3	±10ug/m3±10% of reading	Optical	10 sec	300 sec
PM10	0~1000 µg/m3	1 µg/m3	±10ug/m3±10% of reading	Optical	10 sec	300 sec
HCHO	0.01~5 ppm	0.01 ppm	±0.02ppm±10% of reading	Electrochemical	30 sec	300 sec
TVOC	0~60 ppm	0.01 ppm	±0.1ppm±10% of reading	MEMS	10 sec	300 sec
CO	0~1,000 ppm	1 ppm	± 5ppm±5% of reading	Electrochemical	60 sec	60 sec
O3	0~5 ppm	0.01 ppm	±0.1ppm±10% of reading	Electrochemical	60 sec	600 sec

(*) Testing conditions at 25°C environment

System Specification

Operating Environment	10°C ~ 50°C, below 90% RH
Storage Temperature	-20°C ~ 70°C, below 90% RH
Communication Protocol	Modbus-RTU/ Modbus-TCP/Http/ MQTT
Transfer Interface	Support WiFi / RS485 / BLE 4.0

Power Supply	5V/1.0A DC or 12-24V/0.5A DC
Power Consumption	2.8W max.
Safety Standards	CE / NCC / BSMI
Dimensions	158mm(L) x 115mm(W) x 32mm(H)
Weight	210g

Model

Model	Temperature	Humidity	CO2	PM2.5	PM10	HCHO	TVOC	CO	O3
iAeris21	●	●	●						
iAeris22	●	●	●	●					
iAeris23	●	●	●	●	●	●			
iAeris24	●	●	●	●	●	●	●	●	
iAeris24	●	●	●	●	●	●	●		●

• Sensors can be customized based on customer requirements