

iAeris 1

IAQ Detector



Large touchscreen shows multiple air quality data

The iAeris1 indoor air quality detector is a multifunctional device that can detect CO₂, PM_{2.5}, TVOC, temperature, humidity, and more, with up to 9 detection factors

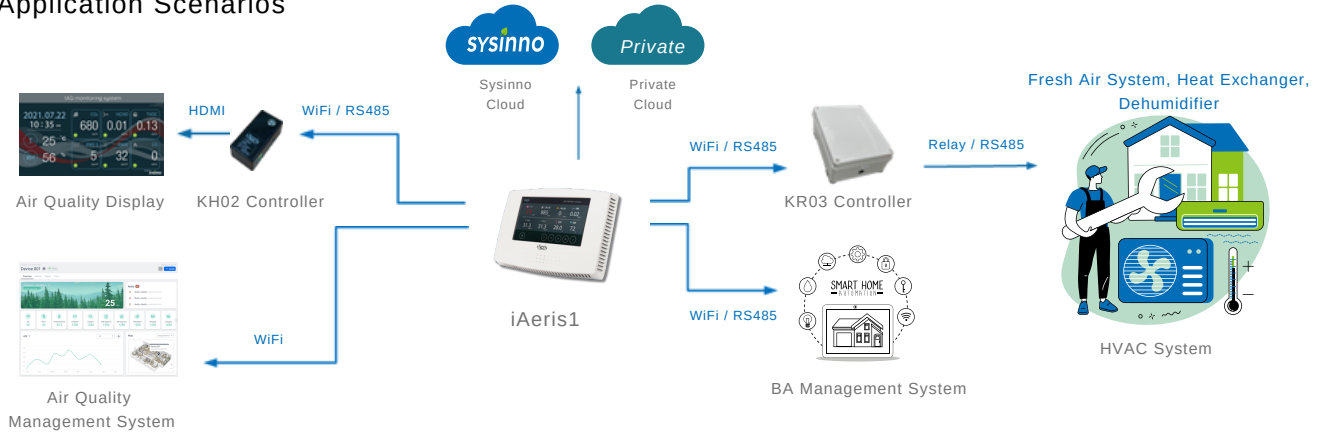
The iAeris1 features a seven-inch touchscreen for an intuitive and easy-to-use display interface. With a professional body structure, it can be wall-mounted or placed on a desk, catering to various indoor space requirements.

The iAeris1 indoor air quality detector is an efficient and versatile product, offering a comprehensive indoor air quality monitoring solution to help you create a healthier and more comfortable living environment.

Product Features

- **Touchscreen:** 7-inch touchscreen, wall-mount or desktop.
- **Modular sensors:** Expandable as needed.
- **Advanced algorithms:** independent sensor calibration.
- **Communication options:** RS485, WiFi (optional), Bluetooth BLE4.0 (optional).
- **Improvement devices connection:** Integrated two dry contact points for devices linkage
- **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
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
HCHO	0.01~5 ppm	0.01 ppm	±0.02ppm±10% of reading	Electrochemical	30 sec	300 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	Power Supply	DC 5V, 2.0A
Storage Temperature	-20°C ~ 70°C, below 90% RH	Power Consumption	6.4W max.
Screen	7" Touch TFT LCD	Safety Standards	CE / NCC / BSMI
Control Interface	Two dry contacts	Dimensions	233mm(L) x 159mm(W) x 46mm(H)
Transfer Interface	Supports WiFi / RS485 / BLE 4.0	Weight	580g
Communication Protocol	Modbus-RTU/Modbus-TCP/HTTP/MQTT		

Model

Model	Temperature	Humidity	CO2	PM2.5	HCHO	PM10	TVOC	CO	O3
iAeris11	V	V	V						
iAeris12	V	V	V	V					
iAeris13	V	V	V	V	V	V			
iAeris14	V	V	V	V	V	V	V	V	
iAeris15	V	V	V	V	V	V	V	V	V

• Sensors can be customized based on customer requirements



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