iAeris 7

Air quality   Temperature   Humidity

IAQ Detector

PM2.5 ☺ 13

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Defend Health, Assure Air Purity

The iAeris7 indoor air quality detector is a cutting-edge, multifunctional device that instantly monitors key indoor air quality factors, including CO2, PM2.5, TVOC and HCHO, etc. With up to 7 factors measured, it also tracks temperature and humidity.
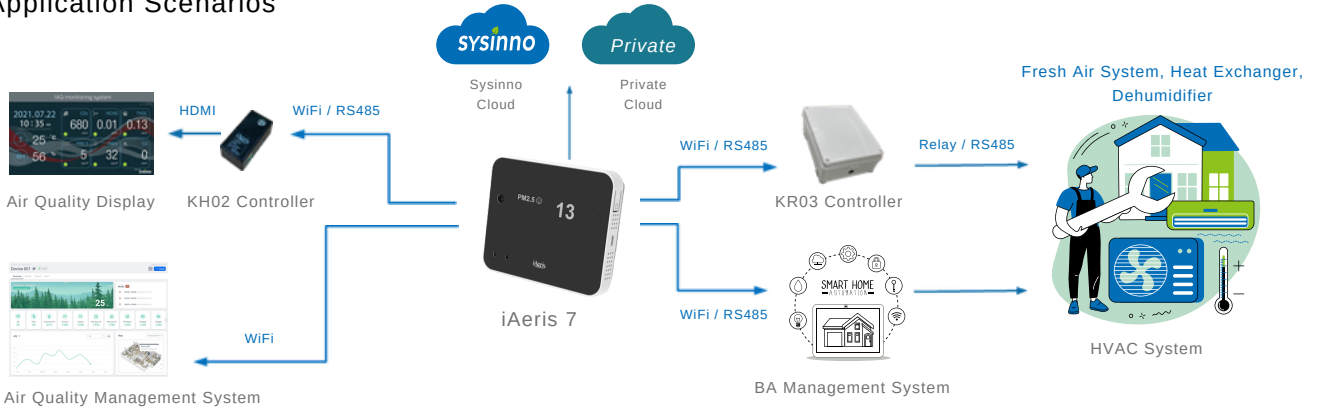
Beyond precise monitoring, iAeris7 boasts smart features, seamlessly integrating with HVAC systems. When indoor air quality dips, it triggers warnings and activates devices for fresh air intake, swiftly enhancing the indoor environment.

Designed to meet LEED green building and WELL health building standards, iAeris7 provides comprehensive support for environmental sustainability and occupant health.

Product Features

- **Compact & Easy:** Hang or place with simple installation.
- **Certified Accuracy:** Third-party lab certification for precise air quality detection.
- **Customizable Sensors:** Modular design with adjustable parameters.
- **Flexible Connectivity:** RS485, WiFi, Bluetooth BLE for versatile transmission.
- **Power Options:** Micro USB, DC 12~24V for multiple inputs.
- **Adaptable Alerts:** Tailor warnings based on environmental needs.
- **Data Management:** Built-in memory for easy storage, cloud platform upload.
- **Certification Support:** Sensor data contributes to LEED, WELL, RESET scores.
- **Instant Display:** 2.23-inch screen for real-time values.

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Application Scenarios

Specification

Measurement Index	Operating Range	Resolution	Accuracy (*)	Detection Method	Response time	Warmup time
Temperature	-40~125 ℃	0.1 ℃	±0.5℃	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
NO2	0~20 ppm	0.01 ppm	±2% FS	Electrochemical	60 sec	600 sec
NH3	0~100 ppm	0.01 ppm	±2% FS	Electrochemical	60 sec	600 sec
SO2	0~20 ppm	0.01 ppm	±5% FS	Electrochemical	60 sec	600 sec
H2S	0~100 ppm	0.01 ppm	±2% FS	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/1.0A or DC 12-24V/0.5A
Storage Temperature	-20°C ~ 70°C, below 90% RH	**Power Consumption**	Max. 5W
Screen	2.23" OLED	**Safety Standards**	CE / FCC / NCC / BSMI
Control Interface	Modbus-RTU or DO (Dry Contact)	**Dimensions**	114mm (L) x 96mm (W) x 36mm (H)
Communication Protocol	RS485(Modbus-RTU) / WiFi(Modbus-TCP, HTTP, MQTT) (optional) / BLE4.0(optional)	**Weight**	142g

Model

Model	Temperature	Humidity	PM2.5	PM10	CO2	TVOC	HCHO
iAeris72	v	v					
iAeris73	v	v	v				
iAeris73	v	v			v		
iAeris74	v	v	v		v		
iAeris76	v	v	v	v	v	v	
iAeris76	v	v	v	v	v		v
iAeris77	v	v	v	v	v	v	v

(＊) The iAeris76 and iAeris77 models fully comply with WELL standards.

(＊) Can be customized with CO, HCHO, Ozone, NO2, SO2, NH3, H2S, and other sensors as per customer requirements.

sysinno

Sysinno Technology Inc
17F.-7, No.27, Guanxin Rd.,Hsinchu City 300052, Taiwan
TEL +886-3-5730550
FAX +886-3-5799995

service@sysinnotec.com
www.sysinnotec.com