

# iAeris5 IAQ Detector

## Application

- Lobby
- Office
- Department store
- Hospital
- Station
- Exhibition hall
- School
- Health care

## Summary

The iAeris5 air quality detector is a multi-functional product that can detect a variety of important indoor air quality factors simultaneously. The iAeris5 provide output interface that can show the real-time monitoring data after plugging to display screen. Easy to install and well-designed dashboard, can clearly show the real-time air quality data in the entrances and public spaces.



## Feature

1. HDMI display interface, plug and play, wall-mount designed, easy to install
2. Equipped with WiFi, Ethernet and RS485 communication interfaces, you can easily collect air quality data and analyze it in the cloud.
3. The data stored in the device can be quickly downloaded via a USB flash drive.
4. The built-in three sets of dry contact can link to the air purifier and air-conditioning system, to improve air quality and save energy intelligently.
5. The modularized-design with independent sensor provide flexible combination and precise data based on individual demand.



## Specification

Measurement Index	Temperature	Humidity	CO <sub>2</sub>	CO	PM2.5	PM10	TVOC	HCHO	OZONE
Operating range	-40~125 °C	0~100% RH	0~5,000 ppm	0~1,000 ppm	0~1000 µg/m <sup>3</sup>	0~1000 µg/m <sup>3</sup>	0.13~2.5 ppm	0.01~5 ppm	0~5 ppm
Resolution	0.1 °C	1%RH	1 ppm	1 ppm	1 µg/m <sup>3</sup>	1 µg/m <sup>3</sup>	0.01 ppm	0.01 ppm	0.01 ppm
Operating Principle	CMOSens	CMOSens	NDIR	Electrochemistry	Optics	Optics	MEMS	Electrochemistry	Electrochemistry
Response time	30 sec	30 sec	120 sec	60 sec	10 sec	10 sec	10 sec	30 sec	60 sec
Warmup time	60 sec	60 sec	60 sec	60 sec	300 sec	300 sec	300 sec	300 sec	600 sec
Sampling method	Real time								
Display interface	HDMI Output (Full HD 1920x1080P resolution)								
Data interface	RS485(Modbus-RTU) / WiFi(Modbus-TCP, HTTP, MQTT) / USB								
Control interface	3 sets of Dry Contact (Max 24VDC)								
Power	5V DC,2.0A / POE-IEEE802.3af (option)								
Operating Env.	-10°C ~50°C, < 90%RH								
Size	171mm(L) x 125mm(W)x 44mm(H)								

## Model

	Temperature	Humidity	CO <sub>2</sub>	PM2.5	HCHO	PM10	TVOC	CO	OZONE
iAeris 51	✓	✓	✓						
iAeris 52	✓	✓	✓	✓					
iAeris 53	✓	✓	✓	✓	✓	✓			
iAeris 54	✓	✓	✓	✓	✓	✓	✓	✓	
iAeris 55	✓	✓	✓	✓	✓	✓	✓	✓	✓



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