iAeris IAQ Detector

sysinno
Sysinno Technology Inc.

Application

- Living room
- Lobby
- Hospital
- School
- Smart home
- Bedroom
- Office
- Station
- Department store
- Internet of Things

Product Summary

The iAeris is the real time monitor of multiple indoor air quality indicator. This monitor can provide the status of temperature, humidity, CO2, CO, particulate matter (PM10), PM2.5, total volatile Organic compound (TVOC) and formaldehyde (HCHO) at the same time.

Feature

1. Compact design around 6" size and Wall-mount available.
2. Professional mechanism structure design for air flow convection can effectively detect the ambient air quality.
3. The professional algorithm of sensing data is reliable and calibrate before shipment.
4. Optional various communication interface with WiFi, BLE and RS485.
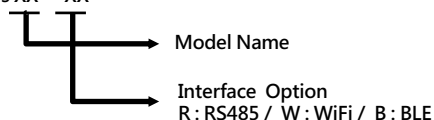5. The current and historical data could be recorded and downloaded by cloud.

Specification

Measurement Index	Temperature	Humidity	CO2	CO	PM2.5	PM10	TVOC	HCHO	OZONE
Operating range	-40~125 ℃	0~100% RH	400~5,000 ppm	0~1,000 ppm	0~500 µg/m^3		0.13~2.5 ppm	0.01~5.00 ppm	0~5.00 ppm
Resolution	0.1 ℃	1%RH	1 ppm	1 ppm	1 µg/m^3		0.01 ppm	0.01 ppm	0.01 ppm
Operating Principle	CMOSens	CMOSens	NDIR	Electrochemistry	Optics		MEMS	Electrochemistry	Electrochemistry
Response time	< 30 sec	< 30 sec	< 120 sec	< 30 sec	< 10 sec		< 10 sec	< 30 sec	< 60 sec
Warmup time	< 60 sec				300 sec				< 90 sec
Sampling method	Real time								
Data interface	RS485(Modbus-RTU) (option) / WiFi(Modbus-TCP & JSON) (option) / BLE4.0 (option)								
Power	5V DC,1.0A or 12-24V DC, 0.5A								
Operating Env.	0℃ ~ 50℃, < 90%RH								
Size	158mm(L) x 115mm(W)x 32mm(H)								

Model

	Temperature	Humidity	CO2	PM2.5	HCHO	PM10	TVOC	CO	OZONE
iAeris 21	✓	✓	✓						
iAeris 22	✓	✓	✓	✓					
iAeris 23	✓	✓	✓	✓	✓	✓			
iAeris 24	✓	✓	✓	✓	✓	✓	✓	✓	
iAeris 24	✓	✓	✓	✓	✓	✓	✓		✓

iAeris XX - XX

→ Model Name

→ Interface Option
R : RS485 / W : WiFi / B : BLE

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