

iAeris1 IAQ Detector

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), formaldehyde (HCHO) and Ozone(O₃) at the same time.



Feature

1. Using 7" touch TFTLCD screen, professional air flow convection design, can install with wall-mounted or stand alternatively.
2. Independent, modularize sensor design, not simulated sensing value, can choice air factor according to demand.
3. Using Sysinno's professional algorithm, each sensor can be calibrated independently.
4. Provide RS485, WiFi (optional) and Bluetooth (optional), can supports multiple communication protocol.
5. Built-in two sets of dry contact, which can be linked to HVAC equipment and improve the air quality in time.
6. Support the alert function, can set the criterion according to the requirements of different environments.
7. Built-in memory to store the sensing data, the records can be easily downloaded via software or cloud platforms.(option)

Specification

Measurement Index	Temperature	Humidity	CO ₂	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 ³	0~1000 µg/m ³	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 ³	1 µg/m ³	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	7 inches color TFT with touch function								
Data interface	RS485(Modbus-RTU) / WiFi(Modbus-TCP, HTTP, MQTT) (option) / BLE4.0 (option) / 2 sets of Dry Contact								
Power	5V DC,2.0A								
Operating Env.	-10°C ~50°C, < 90%RH								
Size	233mm(L) x 159mm(W)x 46mm(H)								

Model

	Temperature	Humidity	CO ₂	PM2.5	HCHO	PM10	TVOC	CO	OZONE
iAeris 11	✓	✓	✓						
iAeris 12	✓	✓	✓	✓					
iAeris 13	✓	✓	✓	✓	✓	✓			
iAeris 14	✓	✓	✓	✓	✓	✓	✓	✓	
iAeris 15	✓	✓	✓	✓	✓	✓	✓	✓	✓

• Sensing indexes can be customized according to requirement

- iAeris1_X X = Sensing Indexes
 - 0 = 1
 - 1 = 2~3
 - 2 = 4~5
 - 3 = 6~7
 - 4 = 8
 - 5 = 9



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