

Large touchscreen shows multiple air quality data

The iAeris1 indoor air quality detector is a multifunctional device that can detect CO2, PM2.5, TVOC, temperature, humidity, and more, with up to 9 detection factors

The iAeris1 features a seven-inch touchscreen for an intuitive and easy-touse display interface. With a professional body structure, it can be wallmounted 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





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	c 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	
СО	0~1,000 ppm	1 ppm	± 5ppm±5% of reading	Electrochemical	60 sec	60 sec	
нсно	0.01~5 ppm	0.01 ppm	±0.02ppm±10% of reading	Electrochemical 30 sec		300 sec	
03	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			
Storage Temperature	-20°C ~ 70°C, below 90% RH			
Screen	7" Touch TFT LCD			
Control Interface	Two dry contacts			
Transfer Interface	Supports WiFi / RS485 / BLE 4.0 (optional)			
Communication Protocol	Modbus-RTU/Modbus-TCP/HTTP/MQTT			

Power Supply	DC 5V, 2.0A		
Power Consumption	6.4W max.		
Safety Standards	CE / NCC / BSMI		
Dimensions	233mm(L) x 159mm(W)x 46mm(H)		
Weight	580g		
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Model

Model	Temperature	Humidity	CO2	PM2.5	HCHO	PM10	TVOC	СО	О3
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

