Air Quality | Temperature | Humidity | Plug & Play | HDMI display interface

iAeris 5
IAQ Detector

空氣品質監測系統
2021.07.28
10:35 AM
二氧化碳
PM10
溫度 25 °C
680 ppm
32 µg/m³
濕度 56 %

Powered by sysinno
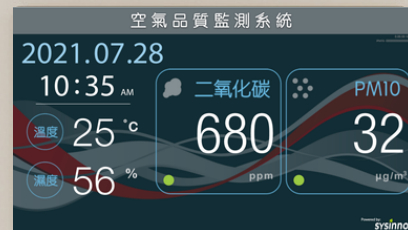
iAeris

World's First
Smart Air Quality Player

iAeris5 Air Quality Detector is a versatile and easy-to-install composite product designed to simultaneously detect multiple indoor air quality factors. Featuring convenient display terminals, it can instantly show air quality monitoring values on screen boards. With its built-in elegant and stylish air quality dashboard, it clearly presents real-time air quality values. Ideal for lobbies, offices, and public spaces.

iAeris5: Smart air quality detector that links to HVAC systems. Alerts and introduces fresh air when indoor air quality drops.

iAeris5 is your trusted assistant in indoor environment management, ensuring comfort and peace of mind in your living and working spaces.

Product Features

- **Plug and play with HDMI:** Wall-mount design for easy installation, convenient for instant use.
- **Versatile connectivity:** WiFi, Ethernet, RS485 for easy data collection, upload, and analysis.
- **Built-in memory, USB download:** Convenient storage and retrieval.
- **Smart linking:** Three dry contacts coordinate ventilation and AC, enhancing air quality and saving energy.
- **Modular sensor:** Independent modules for expanded air factor detection, ensuring precise monitoring.

Application Scenarios
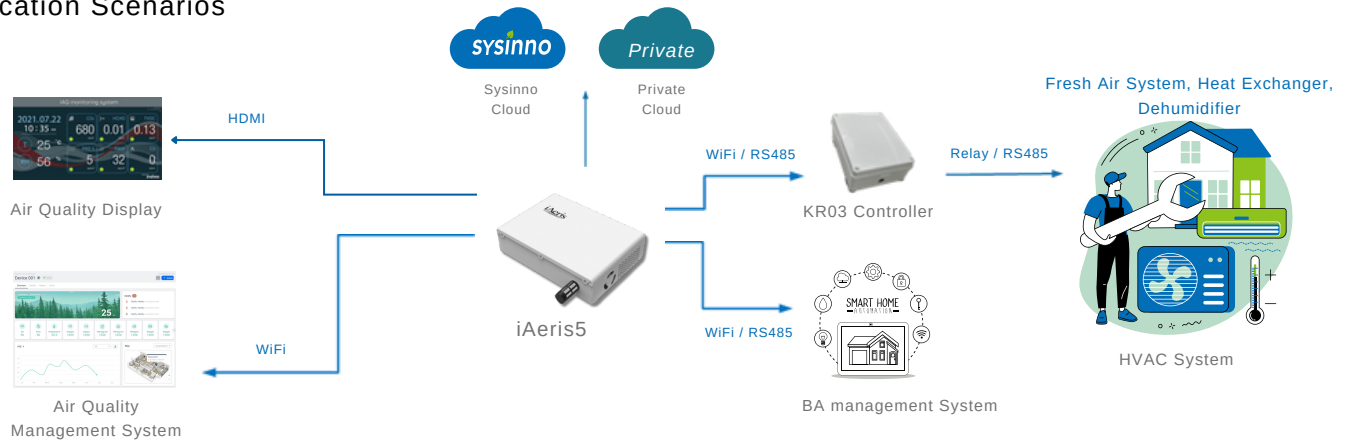
Specification

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
HCHO	0.01~5 ppm	0.01 ppm	±0.02ppm±10% of reading	Electrochemical	30 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
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

(∗) Testing conditions at 25°C environment

System Specification

Operating Environment	-10℃ ~ 50℃, below 90% RH
Storage Temperature	-20℃ ~ 70℃, below 90% RH
Control interface	Three dry contacts (Max 24VDC)
Display interface	HDMI output (Full HD 1920 x 1080, 1080P resolution)
Communication Protocol	Modbus-RTU/ Modbus-TCP/ Http / MQTT
Transfer Interface	RS485 / WiFi / RJ45-Ethernet / USB

Power Supply	5V DC, 2A / POE-IEEE802.3af (optional)
Power Consumption	6.6W max
Safety Standards	CE / NCC / BSMI
Dimensions	171mm(L) x 125mm(W)x 44mm(H)
Weight	750g

Model

Model	Temperature	Humidity	CO2	PM2.5	PM10	HCHO	TVOC	CO	O3	NO2
iAeris51	V	V	V							
iAeris52	V	V	V	V						
iAeris53	V	V	V	V	V	V				
iAeris54	V	V	V	V	V	V	V	V		
iAeris55	V	V	V	V	V	V	V	V	V	
iAeris56	V	V	V	V	V	V	V	V	V	V

•Sensors can be customized based on customer requirements

* "HDMI and the HDMI logo are trademarks of HDMI Licensing Administrator, Inc."

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