

iAeris3 Outdoor Air Quality Detector

Application

- Schools, Construction sites, Outdoor application fields
- Internet of Things
- Smart Street Lighting
- Smart City

Product Summary

The iAeris is the real time monitor of multiple outdoor air quality indicator. This monitor can provide the status of temperature, humidity, particulate matter PM2.5, CO, TVOC-total volatile organic compounds, HCHO-formaldehyde, O₃-ozone, SO₂-sulfur dioxide, NO₂-nitrogen dioxide at the same time.



Feature

1. Professional mechanism structure design for air flow convection can effectively detect the ambient air quality.
2. Using Sysinno's professional algorithm, each sensor can be calibrated independently.
3. Optional various communication interface with NB-IoT, 4G, WiFi and RS485.
4. Supports Modbus-RTU, Modbus-TCP, Http, MQTT communication protocol.
5. Built-in memory to store the sensing data, the records can be easily downloaded via software or cloud platforms.(option)
6. Independent, modularize sensor design, not simulated sensing value, can choice air factor according to demand.
7. The product is certified by the Taiwan EPA standard. (PM2.5) (executed by the Industrial Technology Research Institute)

Specification

Measurement Index	Temperature	Humidity	PM2.5	PM10	CO	Ozone	TVOC	NO ₂	SO ₂
Operating range	-40~125 °C	0~100% RH	0~1000 µg/m ³	0~1000 µg/m ³	0~1,000 ppm	0~5 ppm	0.13~2.5 ppm	0~20 ppm	0~20 ppm
Resolution	0.1 °C	1%RH	1 µg/m ³	1 µg/m ³	0.1 ppm	0.01 ppm	0.01 ppm	0.01 ppm	0.01 ppm
Operating Principle	CMOSens	CMOSens	Optics	Optics	Electrochemistry	Electrochemistry	MEMS	Electrochemistry	Electrochemistry
Response time	30 sec	30 sec	10 sec	10 sec	60 sec	60 sec	10 sec	60 sec	60 sec
Warmup time	60 sec	60 sec	300 sec	300 sec	60 sec	600 sec	300 sec	600 sec	600 sec
Sampling method	Real time								
Data interface	NB-IoT (option) / 4G (option) / WiFi (option) / RS485 (option) / BT4.0 (option)								
Power	AC 110V~240V / DC 5V 2.0A								
Operating Env.	-10°C ~ 50°C, < 90% RH								
Size	180mm(L) x 265mm(W) x 138mm(H)								

Model

	Temperature	Humidity	PM2.5	PM10	CO	Ozone	TVOC	NO ₂	SO ₂
iAeris31	✓	✓	✓						
iAeris33	✓	✓	✓	✓	✓	✓	✓		
iAeris35	✓	✓	✓	✓	✓	✓	✓	✓	✓

• Sensing indexes can be customized according to requirement

- iAeris3X X = Sensing Indexes
 - 1 = 2~3
 - 2 = 4~5
 - 3 = 6~7
 - 4 = 8
 - 5 = 9



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