Smart IEQ Monitor

Indoor environmental sensors in a box, comes with IoT cloud function

I.　　Sensor Specifications (Monitor product code: WFSIEQMSD)

Basic Specifications

General Data

Detection Parameters	PM2.5；PM10； CO2； TVOC； Environment temperature &RH；
Output	RS485(Modbus RTU) WIFI
Operating Environment	Temperature：0~50℃　Humidity：0~99%RH
Storage Conditions	−10℃~50℃　Humidity：0~95%RH (No condensation)
Power Supply	12~36VDC; or 100~240VAC
Overall Dimension	130mm(L) × 130mm(W) × 45mm (H)
Material of Shell & IP Level	PC/ABS fire−proof material / IP30
Certification Standard	CE

PM2.5/PM1 Data

Sensor	Laser particle sensor, Light scattering method
Measuring Range	PM2.5：0~400 μ g/m^3 PM10：0~500 μ g/m^3
Output Resolution	0.1 μ g/m^3
Zero Point Stability	±5 μ g/m^3
Accuracy	10% of reading

Temperature and Humidity Data

Sensor	High precision digital integrated temperature and humidity sensor
Measuring Range	Temperature : 0℃~50℃ / Humidity : 0~99%RH
Output Resolution	Temperature : 0.01℃ / Humidity : 0.01%RH
Accuracy	Temperature : < ±0.5℃ @25℃ Humidity : < ±3.0%RH (20%~80%RH)

CO² Data

Sensor	Non-Dispersive Infrared Detector (NDIR)
Measuring Range	0~2,000ppm (up to 0~5000ppm)
Output Resolution	1ppm
Accuracy	± 40ppm +3% of the indication

TVOC Data

Sensor	TVOC
Measuring Range	0~ 2.0mg/㎥
Output Resolution	0.001mg/㎥
Accuracy	± 0.02mg+10%of the indication

The sensor has no calibration feature. Measures are given as-is. Country of origin is China. Product is distributed and serviced by WOOFAA in Hong Kong.

Models Guide

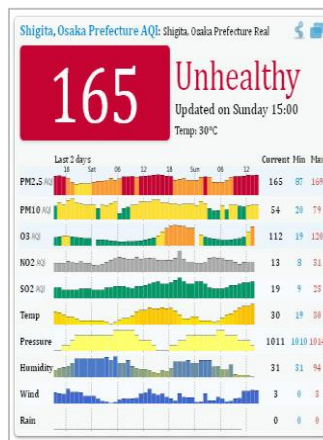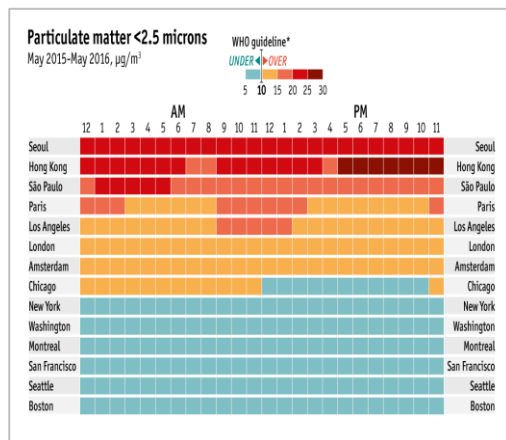| Model	PM2.5	PM10	Temp/RH	CO₂	TVOC	12~36VDC Power supply	100~240VAC Power supply	Output
MSD-1618C	●	●	●	●	●	●		RS485 (Modbus RTU)
MSD-1618D	●	●	●	●	●		●	
MSD-1613C	●	●	●	●		●		
MSD-1613D	●	●	●	●			●	
MSD-1628C	●	●	●	●	●	●		WIFI
MSD-1628D	●	●	●	●	●		●	
MSD-1623C	●	●	●	●		●		
MSD-1623D	●	●	●	●			●	

II.   Data Communication

- Sensor setup has to be done by our engineers on-site.
- Local wifi connection has to be given in prior to sensor setup. Each sensor has unique device ID for our cloud platform connectivity.
- Data can be exported in CSV format per device on-request. Cloud data API port is not available.

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Ref: WFSIEQA2Y-2TD - P.2
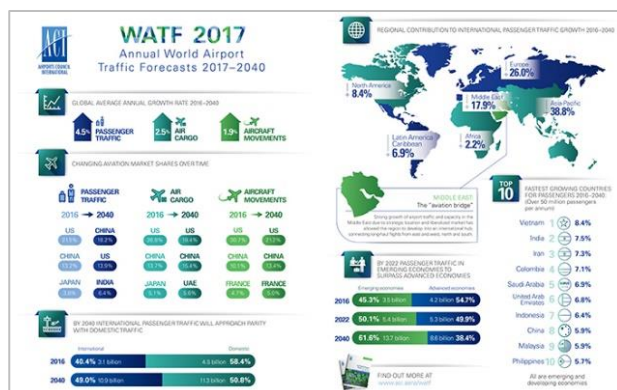
III.   Data Analytics

Cloud data is logged once the monitor put online. WOOFAA is providing analytics reporting service. We can consolidate data from cloud from multiple devices, sites and produce insights from our view as air quality specialists. This is an on-demand and contract-based service. Typical requests are weekly reporting on problematic IAQ scene for few months, or half-yearly for compliance to green building standards. Report template is customizable to suit your organization protocol.

Text-based template: typical for annual filing or green building standard compliance reporting

Heatmap type for quick operational assessment. Our recommendations will be provided specific to your organizational context when we see actions are required.

Infographic type for quick overview on status and issues. Likely this is custom-made to each organization. Client will need to give us a draft on how they want us to consolidate and to present data. Then we will create the template and provide regular reports.

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