Indoor Air Quality Monitoring System

Description:

Indoor Air Quality Monitoring System is an integrated solution with multiple air quality sensors for monitoring indoor ambience.

The system includes an integrated indoor air quality sensor, a collector box and a cloud dashboard.

Features:

Sensors

- VOC, CO_2, HCHO, PM2.5 support
- Temperature & Relative Humidity
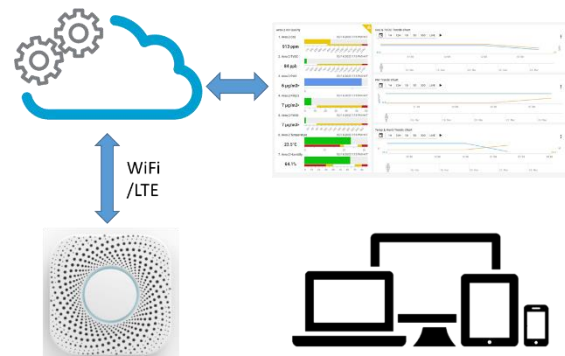- CO, PM1, PM10 are optional

Cloud Dashboard

- Real time data reporting in user friendly dashboard on Cloud platform
- Historical data display as graph or histogram.
- Anomaly detection alert
- Map & Floorplan support
- Data report generation
- Event Logs reporting
- Alert notification via Email/SMS

Operations

- WiFi and LTE* support
- LTE hotspot mode support*
- DC 5V operation (AC 220V optional*)
- Internal rechargeable Lithium battery
- Wireless Charging (Receiver Mode) support (Qi Compatible)

System Overview:

WiFi /LTE

Applications:

- Smart building air quality monitoring
- Ambient environment monitoring
- Air pollutants excess alert

*Note: LTE/ Hotspot operation mode require additional data SIMs. For Details, please contact eSol Limited.
Power adaptor is required for wall mount installation.

Specifications:

System Operations

Operations Temperature	-10~+55 °C
Operation Humidity	0~99 %
Power Consumption	≤ 5W
Connectivity	Wifi IEEE802.11b/g/n/ac, LTE

Sensors

	CO_2	TVOC	PM2.5	*HCHO	Temperature	Relative Humidity
Range	400~10000 ppm	0~1000 ppb	0~999 µg/m^3	0~2.68 mg/m^3	-30~+125 °C	0~100 %
Resolution	1 ppm	1 ppb		0.001 mg/m^3		
Accuracy	±40 ppm	±5%	±10%	±0.002 mg/m^3	±0.3 °C	±3%
Response Time			≤5s			

Optional Sensors

	*CO	PM1	PM10
Range	0~500 ppm	0~999 µg/m^3	0~999 µg/m^3
Resolution	0.1 ppm		
Accuracy		±10%	±10%
Response Time		≤5s	≤5s

*Note: Electro Chemical sensor for HCHO are effective for 3 years.