EM21 Embedded Indoor Air Quality Monitor

Focus on air quality detection and control for 15 years Continuous innovation and development, accumulation of project application Offering professional and high quality detectors



EM21- Embedded Installation Indoor Air Quality Monitor

Professional Design in Commercial B-level

Detection Gas:	PM2.5, CO2,TVOC,Temperature,Humidity,HCHO
Communication interface:	RS485,WiFi, Ethernet(RJ45)
Power supply (optional):	24VAC /VDC ± 10%,100~240VAC

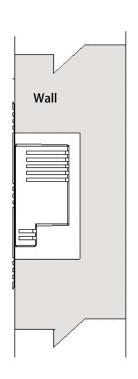


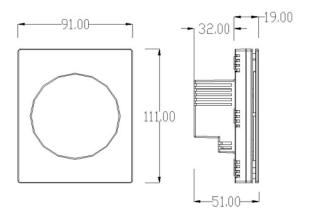
Unique base-line algorithm and data compensation principle ensures measurements reliable and accurate in different environments

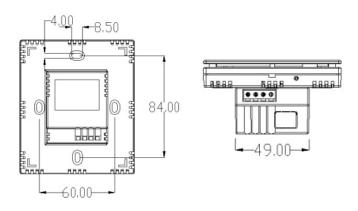


Wall-Embedded Installation Applicable to tube box of Europe, American, and China standard





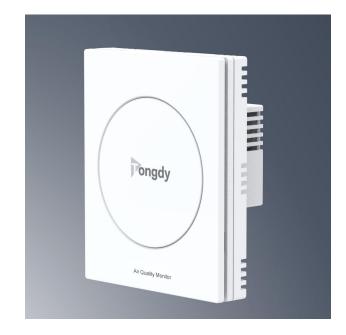






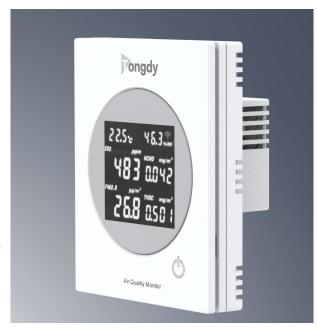
EM21 embedded installation Indoor Air Quality Monitor Simple and elegant type

- LED Tri-colored lights
- Visible air quality level
- Compact and simple design
- Gather real-time data and display history chart via a software platform



EM21 embedded installation Indoor Air Quality Monitor Screen display type

- Show the detailed air quality on the screen
- Display the real time values and 24-hour average of PM2.5, TVOC, CO2
- With on/off touch button to turn off /turn on screen
- The brightness of screen display is automatic adjusted, according with the ambient brightness.
 Both applicable for daytime and night.



Technology Specifications

	CO2	TVOC	PM2.5	Temp&RH	нсно
Sensor			High-precision digital integrated Temperature and humidity sensor	Electrochemical Formaldehyde sensors	
Measuring Range	400~5,000ppm	0.001~4.0mg/m ³	.0mg/m ³ 0~500µg /m ³ Temp: 0°C~60°C Humidity:0~99%RH		0~0.6mg/m3
Output Resolution	1ppm	0.001mg/m ³	1µg/ m ³	Temp:0.01°C Humidity:0.01%RH	0.001mg/m ³
Accuracy	±50ppm + 3% of reading or 75ppm	<15%	<15%	Temp:±0.8°C Humidity:±4.5%RH	±0.005mg/m 3 +5% of reading

General Specifications						
Detection Parameters(max.)	PM2.5 ; CO2 ; TVOC ; Temp&RH ; HCHO	Power Supply	24VAC/VDC±10%,100~240VAC			
Output (Optional)	RS485 (Modbus RTU) WIFI @2.4 GHz 802.11b/g/n RJ45 (Ethernet TCP) PoE power supply Optional	Shell material and IP level	PC fireproof material IP30			
Operating Environment	Temp: 0~60℃ Humidity: 0~99%RH	Overall Dimension	91.00mm*111.00mm*51.00mm			
Storage Condition	0°C~50°C 0~70%RH	Installation standard	Standard 86/50 pipe box (installation hole distance 60mm) American standard pipe box (installation hole distance 84mm)			



Understand your air quality at all times

- View real-time and historical data through RS485 or cloud-based platform such as "MyTongdy", in computer or mobile APP
- Check out or download data to analyze your indoor air quality and identify the pollution source as frequently as you need
- Handle your indoor air quality by control the fresh air system or purification equipment automatically





Application scenarios

Widely used in commercial or residential spaces







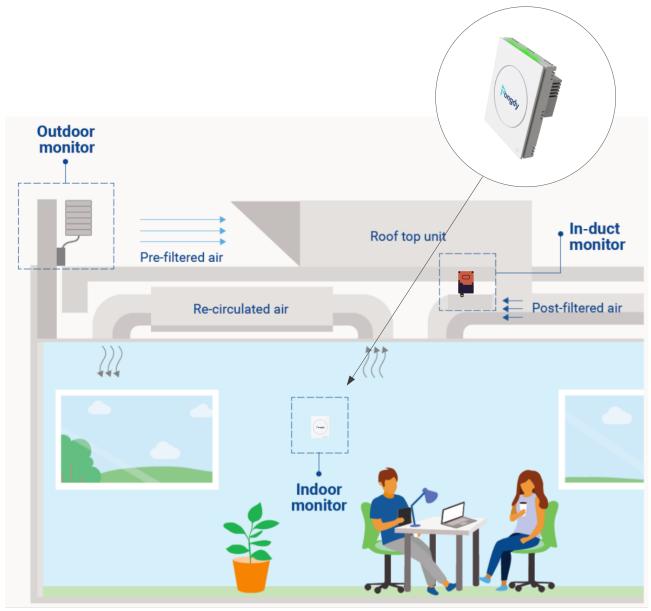


Commercial Space

School

Residential

Hotel



Models Guide

No.	Model	PM2.5	CO2	Temp&RH	T VOC	НСНО	Output	Display	Power Supply
1	EM21-B/S13C/D	•	•	•			DC 40E		
2	EM21-B/S15C/D	•		•	•		RS485 (Modbus RTU or	B No display S with display	C: 24VAC/VDC D: 100~240VAC
3	EM21-B/S17C/D	•	•	•		•	BACnet MS/TP)		
4	EM21-B/S18C/D	•	•	•	•				
5	EM21-B/S23C/D	•	•	•					
6	EM21-B/S25C/D	•		•	•				
7	EM21-B/S27C/D	•	•	•		•			
8	EM21-B/S28C/D	•	•	•	•				
9	EM21-B/S33C	•	•	•					
10	EM21-B/S35C	•		•	•		Ethernet RJ45 (MQTT)		
11	EM21-B/S37C	•	•	•		•			
12	EM21-B/S38C	•	•	•	•				

Provide the wall mounting EM21 with a surface mounted tube box(4 color selectabel)

We provide commercial air quality monitors Including- indoor, in-duct, outdoor monitors Help you build healthy indoor air quality



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