# 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

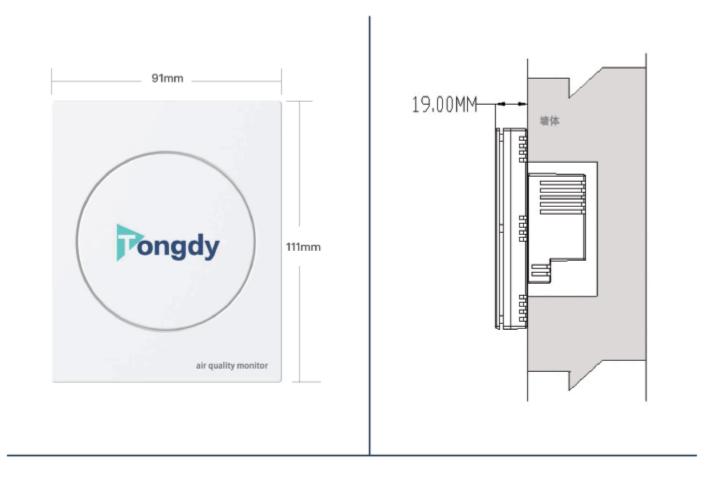
Detection Gas	PM2.5, CO2, TVOCs,Temperature,Humidity,HCHO  RS485,WiFi, Ethernet(RJ45)  DC18~36V/AC24~28V, 100~240VAC PoE Switch power supply.			
Communication interface				
Power supply (optional)				

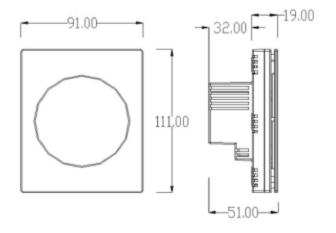


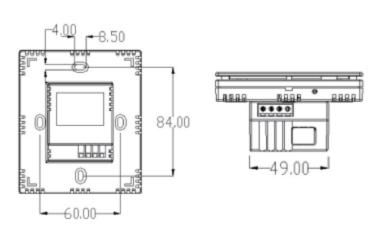
Unique base-line algorithm and data compensation principle ensures measurements reliable and accurate in different environments



#### 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, TVOCs, CO2
- With on/off touch button to turn off /turn on screen



# **Technology specifications**

	CO2	TVOC	PM2.5	Temp&RH	нсно	
sensor	NDIR	Metal oxide semiconductor	Laser particle sensor Light scattering method	High-precision digital integrated Temperature and humidity sensor	Electrochemical Formaldehyde sensors	
Measuring range	400~5,000ppm	0.01~4.00mg/m <sup>3</sup>	0~500µg∕m³	Temp:-20°C-60°C Humidity:0~9946RH	0~0.6mg/m3	
Output Resolution	reclution 100m 0.001mg / of 1 / of		Temp:0.01°C Humidity:0.01%RH	0.001mg/m³		
Accuracy	±50ppm + 3% of reading or 75ppm	<15%	<15%	Temp:±0.8°C Humidity:±4.5%RH	±0.005mg/m²+5% of reading	

General Specifications							
Detection Parameters(max.)	PM2.5;CO2;TVOC;Temp&RHHCHO	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 P30				
Operating Environment	Temp: -10~60°C 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

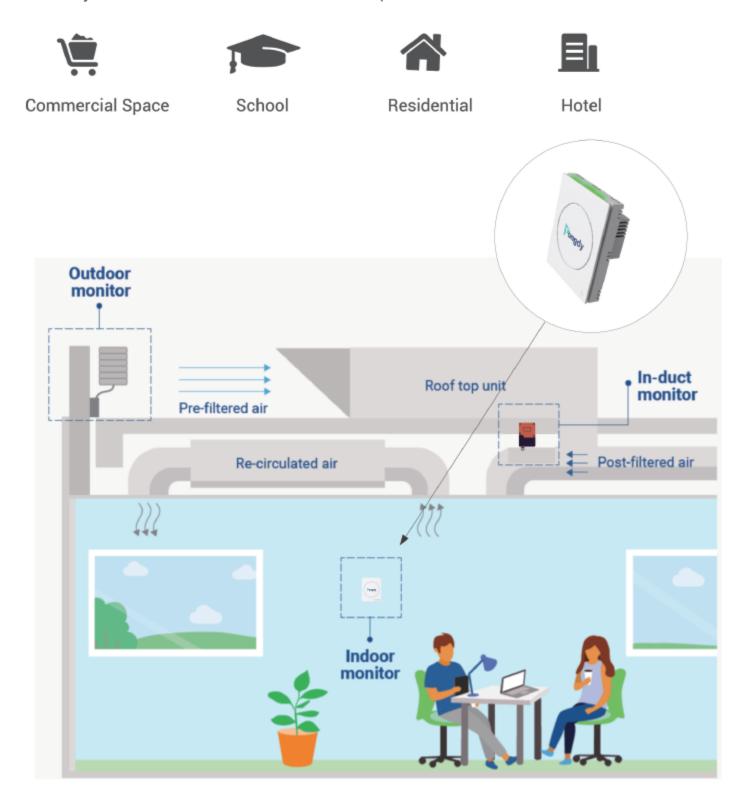
- View real-time and historical data through RS485 or cloud-based platform such as MyTongdy , in computer or mobile APP
- Check out or download data to analyze your indoor air quality and identify the pollution source as frequently as you need
- Handle your indoor air quality by control the fresh air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





## **Application scenarios**

Widely used in commercial or residential spaces



#### Models Guide

No.	Model	PM2.5	CO2	Temp&RH	voc	нсно	Output	Display	Power Supply
1	EM21-B/S13C/D	•	•	•					
2	EM21-B/S15C/D	•		•	•		RS485	B No display S with display	C: 24VAC/VDC D: 100~240VAC
3	EM21-B/S17C/D	•	•	•		•			
4	EM21-B/S18C/D	•	•	•	•				
5	EM21-B/S23C/D	•	•	•					
6	EM21-B/S25C/D	•		•	•		WI-FI		
7	EM21-B/S27C/D	•	•	•		•			
8	EM21-B/S28C/D	•	•	•	•				
9	EM21-B/S33C/D	•	•	•					
10	EM21-B/S35C/D	•		•	•		RJ45 Ethernet (please contact		
11	EM21-B/S37C/D	•	•	•		•	our sales department for POE Power Supply)		
12	EM21-B/S38C/D	•	•	•	•				

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



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