



NEO WAVE®

Overview:

TxAQ84 All-In-One Air Quality Transducer detects temperature, humidity, CO2, PM2.5, PM10, VOC, and formaldehyde—up to 7 parameters. It offers RS485 output with a built-in Modbus protocol for real-time, multi-point data detection. The indoor model can include a display screen and a three-color LED indicator to show air quality status. Both indoor and top suction types support RS485 communication configuration. With wide power supply options and protection features, it's ideal for air quality monitoring in commercial complexes, offices, hotels, airports, and schools.

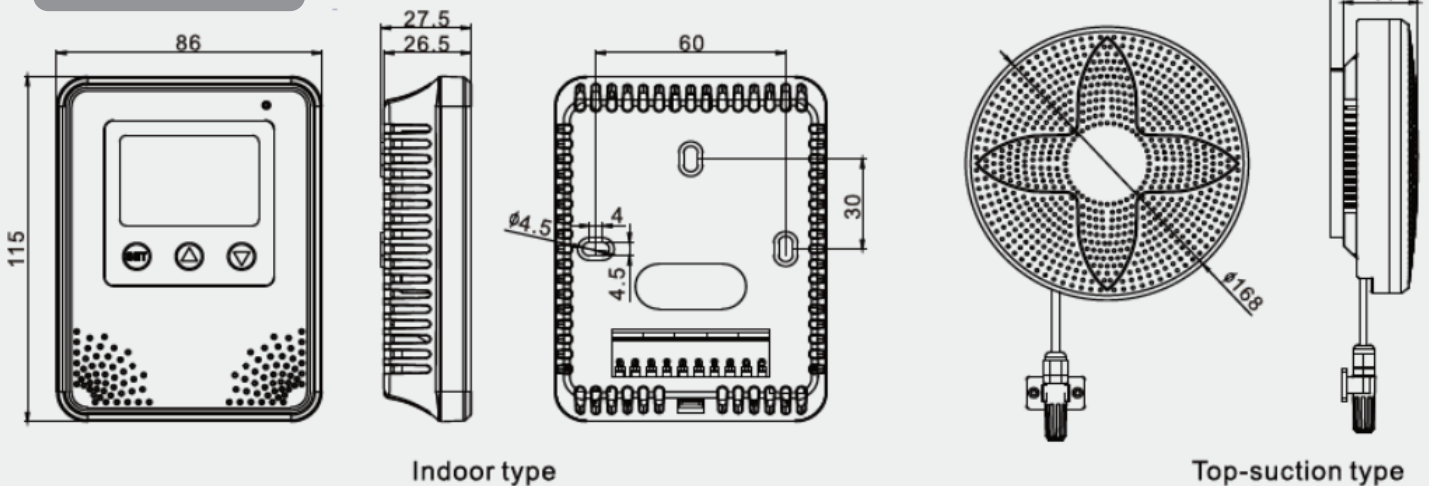
Feature:

- High-precision sensor for stable air quality measurement.
- Detects temperature, humidity, CO2, PM2.5, PM10, VOC, and formaldehyde.
- 3-color LED indicator with an optional off function for air quality display.
- Overvoltage and reverse connection protection for reliability.
- Optional RS485 output (isolated/non-isolated).
- Suitable for indoor or top suction installation across various settings.

Application:

air quality monitoring in commercial complexes, offices, hotels, airports, and schools.2. HVAC

Dimensions:



TxAQ84

All-In-One Air Quality Transducer



**Specifications:****All-In-One Air Quality TxAQ84****Temperature**

Sensor	Digital temperature sensor
Range	0~50°C
Accuracy	±0.5°C@20°C; ≤±1°C@0~50°C
Response time	≤10s (20°C, slow flow air)

Relative Humidity

Sensor	Digital temperature sensor
Range	0~100%RH
Accuracy	Typical ±3% RH@20°C & 20 to 80% RH
Response time	≤10s (20°C, slow flow air)

PM2.5/PM10

Sensor	Laser dust sensor, detection particle size 0.3~10µm
Range	PM2.5: 0~500 ug/m³, with a particle size of 0.3~2.5µm PM10: 0~600 ug/m³, particle size 0.3~10µm
Precision/consistency	PM2.5: ±10 µg/m³@0~100 ug/m³, ±10%FS@100~500/600 µg /m³, @25°C
Resolution ratio	1 µg /m³
Response time	Continuous measurement mode with single response time <1s, integrated response time <10s

CO2

Sensor	The NDIR sensor, with the ABC self-check function
Range	0~5000 ppm
Accuracy	(±40 ppm±3%MV)ppm
Response time	2 mins

VOC**Formaldehyde**

Range	Metal oxide semiconductor gas sensor	Sensor	Electrochemical-type gas sensor
Range	0~2 ppm	Range	0~1 ppm
Resolution ratio	1ppb	Accuracy	+10%FS@25°C
Response time	First power-up for 1 hour; pre-heat for 3mins	Response time (T90)	<120s

General Parameters

Power Supply Voltage	12~36VDC/24VAC+20%
Output Signal	Isolation/non-isolated RS485
Work Environment	0~50°C & 0~95%RH(no condensation)
Storage Temperature	-20~60°C & 0~95%RH (no condensation)



NEO WAVE®

Display and Buttons	Indoor type can be optional
LED pilot lamp	Indoor type can be optional Light indicate: Green: good air quality; Yellow: air quality is generally; Red: poor air quality
Levels of Protection	IP30
Way to Install	Indoortype, Top-suction type
Case Material	Indoor type: PC Top-suction type: ABS
Weight	Indoor type: 148g Top-suction type: 235g

Selection Code:

Code and description		Remark
TxAQ84	ALL-IN-ONE AIR QUALITY TRANSDUCER	Model
1	Indoor type	Installation method
2	Top suction type	
1	N/A	Temp&RH
2	Temp&RH	
1	N/A	CO2
2	CO2	
1	N/A	PM
2	PM2.5&PM10	
1	N/A	VOC
2	VOC	
1	N/A	Formaldehyde
2	HCHO	
RSN	Non-isolated RS485	Output
RS	Isolation type of RS485	
1	Without display	Display
2	With display	
1	None	Indication light
2	With 3-color LED	