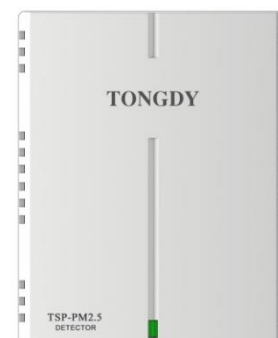


TSP-18 Indoor Air Quality Detector

—Designed for indoor air quality detection

- *Experienced in designing IAQ products for 15 years, with powerful performance guaranteed*
- *Real-time indoor air quality detection, single or combined measurement selection: PM2.5/PM10, CO2, TVOC, Temperature and RH*
- *3-color light indicates the range of the main measurement*
- *OLED display optional*
- *Suitable for schools, offices, hotels and residential projects to analyze indoor air quality, and to control ventilation systems*
- *Modbus RS485 or WIFI communication interface, RJ45 optional*



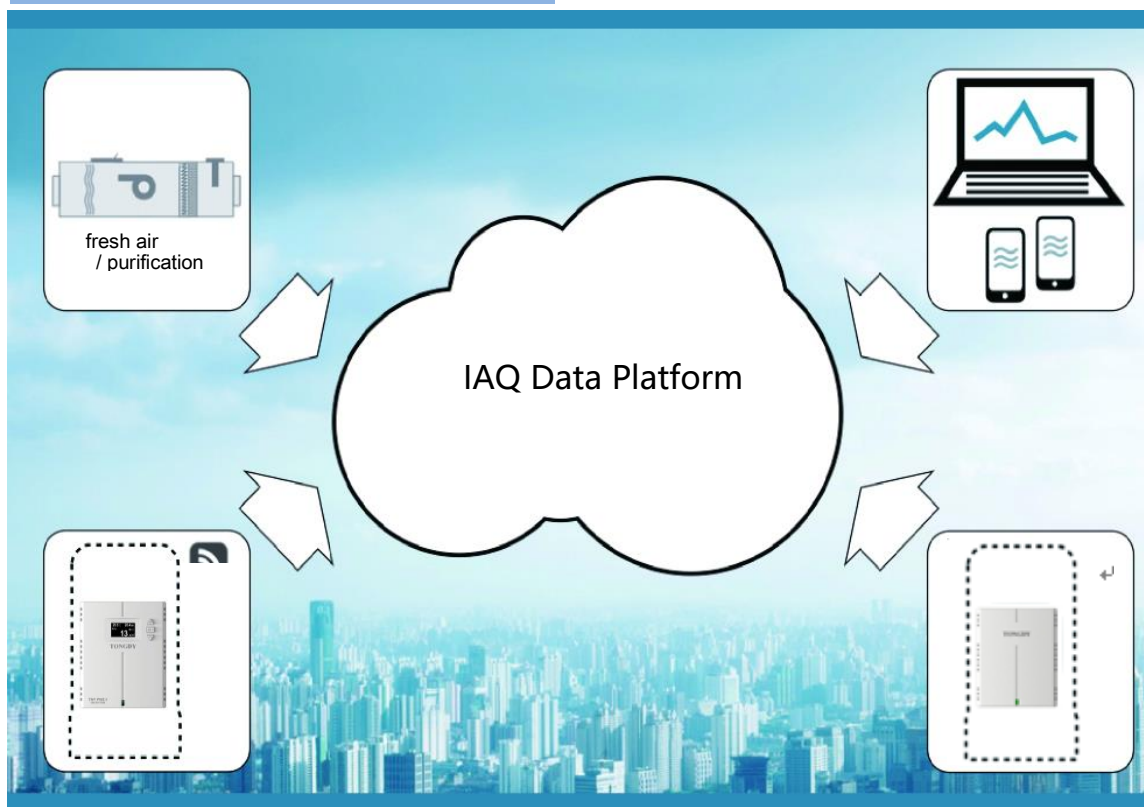
Features

- | | |
|--|---|
| <ul style="list-style-type: none"> ■ 7-24 hours online real-time IAQ detection ■ Real-time output of PM2.5/PM10, CO2, TVOC and Temperature & humidity data, single or combined measurement selection ■ A special correction algorithm inside to ensure the TVOC measurements not be affected as environmental change ■ Modbus RS485 or WIFI interface, RJ45 optional ■ 3-color lights indicates the three | <ul style="list-style-type: none"> ■ ranges of main measurement ■ Optional OLED display IAQ measurements ■ Wall mounting with 24VAC/VDC power supply ■ Used in all old and new buildings ■ Provides carbon monoxide and ozone detectors of TSP series for more gases detection ■ Over 15 years' application experience of IAQ products in global market |
|--|---|

Applications

- Schools , hotels, offices and other public places
- Smart home systems
- Residential projects
- Air quality monitoring in other public places
- All ventilation systems

Monitoring System Illustration



Specifications

General Data	
Detection Parameter	PM2.5/PM10; CO2; TVOC; Temperature & Humidity Single or multiple
Output	RS485 (Modbus RTU) WIFI @2.4 GHz 802.11b/g/n RJ45 (Ethernet TCP) optional
Operating Environment	Temperature: -20~60℃ Humidity : 0~99%RH
Storage condition	-5℃~50℃ Humidity : 0~70%RH (No condensation)
Power supply	24VAC±10%, or 18~24VDC
Overall Dimension	94mm(L)×116.5mm(W)×36mm(H)

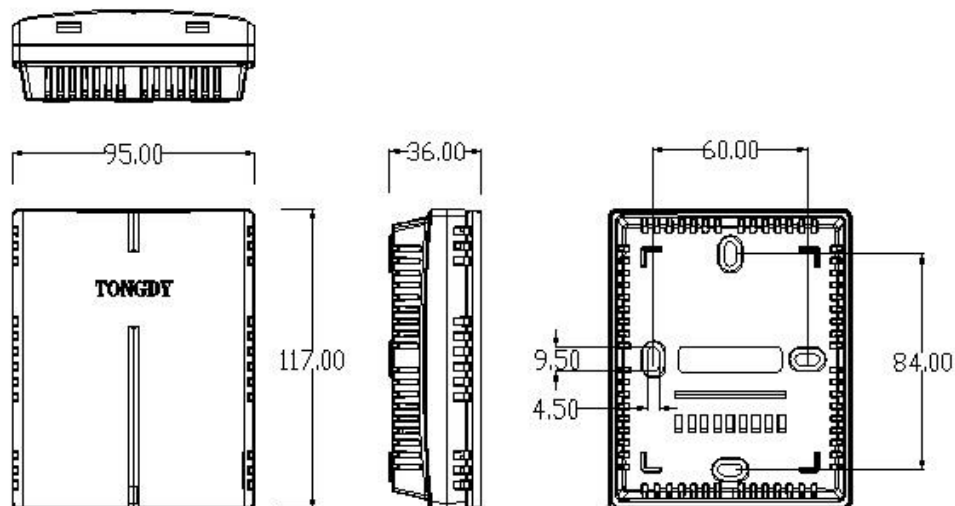
Material of Shell & IP Level	PC/ABS fire-proof material / IP30
Installation	Concealed installation: 65mm×65mm wire box Surface mounted: provide a mounting bracket
PM2.5/PM10 Data	
Sensor	Laser particle sensor, Light scattering method
Measuring Range	PM2.5: 0~500µg/m³ PM10: 0~500µg/m³
Output Resolution	1µg/m³
Zero Point Stability	±5µg/m³
Accuracy	<±15%
CO₂ Data	
Sensor	Non-Dispersive Infrared Detector (NDIR)
Measuring Range	400~2,000ppm
Output Resolution	1ppm
Accuracy	±75ppm or 10% of reading
TVOC Data	
Sensor	TVOC module
Measuring Range	0~ 4.0mg/m³
Output Resolution	0.001mg/m³
Accuracy	≤±0.05mg/m³+15% of the reading
Temperature and Humidity Data	
Sensor	High precision digital integrated temperature and humidity sensor
Measuring Range	Temperature : -20℃~60℃ / 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)

Models Guide

Model	PM2.5	Temp. & RH	CO2	TVOC	Interface
TSP-1811C	●	●			RS485 (Modbus RTU)
TSP-1814C			●		
TSP-1813C	●	●	●		
TSP-1816C		●	●		
TSP-1818C	●	●	●	●	
TSP-1821C	●	●			WIFI @2.4 GHz 802.11b/g/n
TSP-1824C			●		
TSP-1823C	●	●	●		
TSP-1826C		●	●		

TSP-1828C	●	●	●	●	
-SL after above items	OLED display screen				

Installment and Wiring



Installation bracket diagram (for surface mounted of TSP-18)

