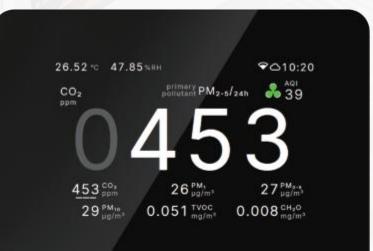
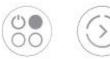


PGX Super Indoor Environment Monitor





Pongdy

A healthier life - Built on a trusted environment



Focus on monitoring and control of indoor environment with both professionalism and innovation

- Tongdy is located in Beijing China, a leader of air quality monitoring and control in BAS and green buildings
- Focused on building intelligent control and air environment monitoring for 16 years
- More than 25 series and over 300 products are provided
- Having over 500 project applications and covering more than 38 countries
- 3500 m² R&D office building, walk-in professional standard gas rooms, and advanced testing aging conditions





PGX Amazing Indoor Environment Monitor

Sensor Monitoring

Supports up to 12 sensing parameters, aligning with the latest application trends: CO₂, PM2.5, PM10, PM1, TVOC, Temperature, RH, TVOC, Carbon Monoxide, Illuminance, Noise, Atmospheric Pressure.

\bigcirc Sensor Modules

Modular design for easy disassembly and replacement of sensors (PM, CO, HCHO).





➡ Unique Display

• High-resolution color display with customizable interface options.

Pongdy

- Real-time data display with key parameters prominently highlighted.
- Data curve visualization.
- AQI and primary pollutant information.
- Day and night modes.
- Clock synchronized with the network time.

ℜ Data Interface

- Various interface options: WiFi, Ethernet, RS485, 4G, and LoRaWAN.
- Dual communication interfaces are available(network interface + RS485)

Various Protocols Selectable

• Support MQTT,Modbus RTU, Modbus TCP, BACnet-MSTP, BACnet-IP, Tuya, Qlear or other customized protocols.

🗄 Data logger Inside

- Local data storage for 3 to 12 months of data based on monitoring parameters and sampling intervals.
- Supporting local data download via the Bluetooth app.



Retwork Configuration

2

24

Offer three convenient network setup options:

- Wi-Fi Hotspot: PGX generates a Wi-Fi hotspot, allowing connection and access to an embedded webpage for network configuration.
- Bluetooth:Configure the network using the Bluetooth app.
- NFC: Use the app with NFC for quick, touch-triggered network setup.

□⁺ Power Supply Options

12~36V DC 100~240V AC PoE 48V 5V Adapter (USB Type-C)





P05

Features

📀 Super Display

- Real time display multiple monitoring data, primary key data.
- Monitoring data changes color dynamically based on concentration levels for clear and intuitive visualization.
- Display a curve of any data with selectable sampling intervals and time periods.
- Display primary pollutant data and its AQI.



- Flexible operate: Connects to cloud servers for data comparing, curve display and analysis. Also Operates independently on-site without relying on external data platforms.
- Can choose to synchronize the display of smart TV and PGX for some special areas such as independent areas.
- With its unique remote services, PGX can perform corrections and fault diagnoses over the network.
- Exclusive support for remote firmware updates and customizable service options.
- Dual-channel data transmission through both network interface and RS485.

Applications



Reception halls



High-end residential properties



Library



Luxury stores



Offices



Commercial buildings



Shopping malls



Meeting rooms





Fitness centers

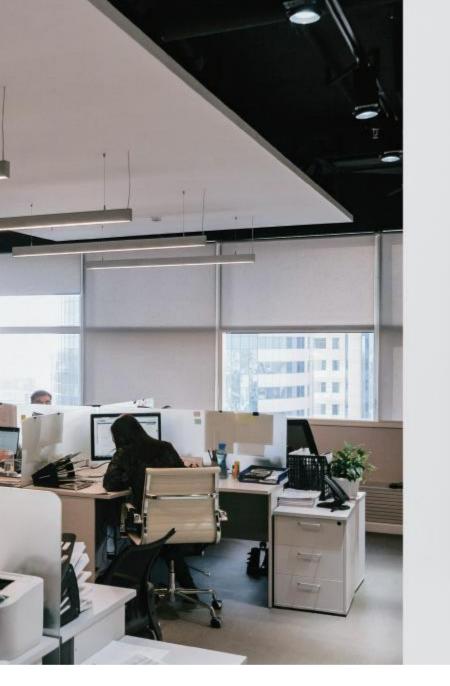
Clubs





PGX Super Indoor Environment Monitor

A healthier life – Built on a trusted environment



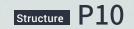




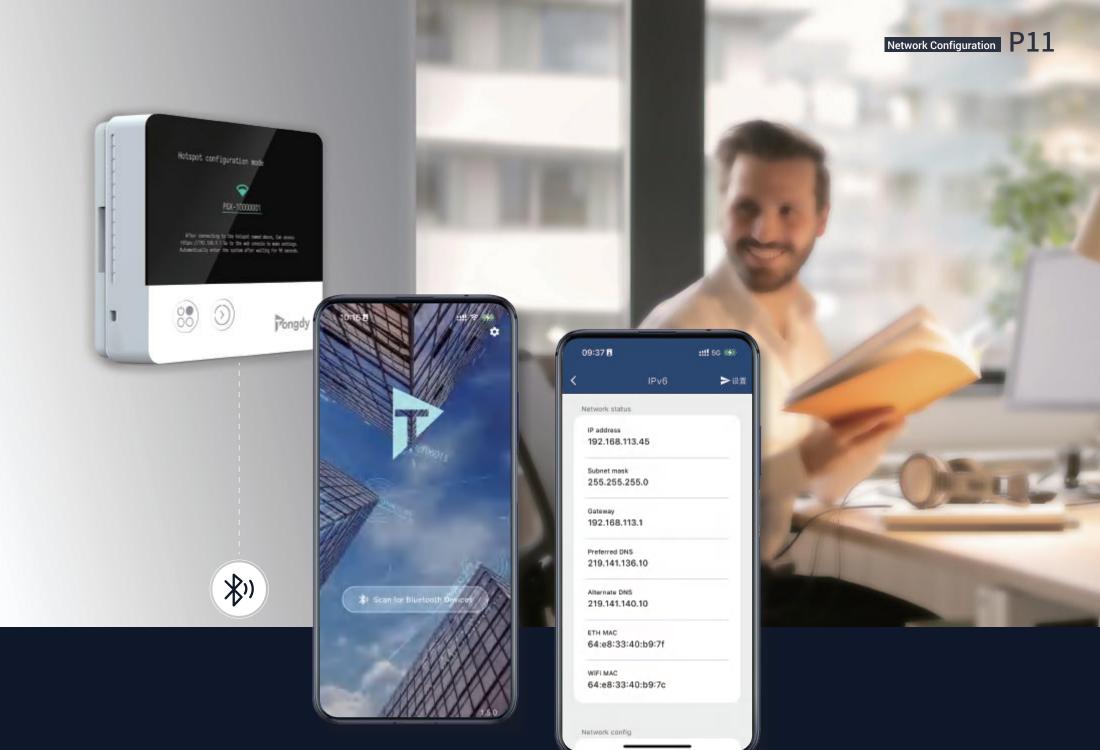
PGX Super Indoor Environment Monitor

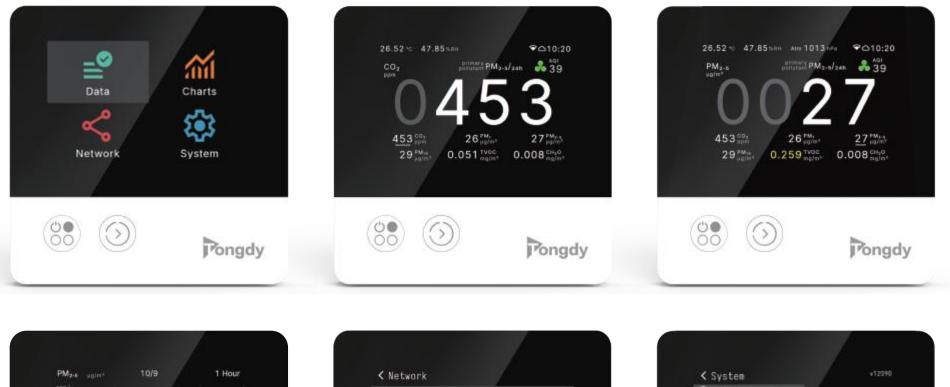
A healthier life – Built on a trusted environment

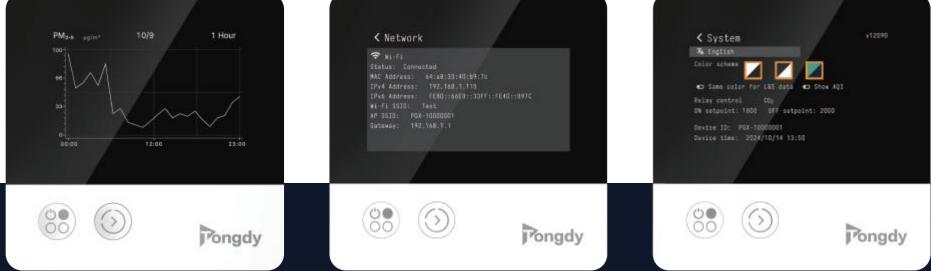












PGX Super Indoor Environment Monitor



Specifications

Power Supply	12~36VDC, 100~240VAC, PoE (for RJ45 interface), USB 5V (Type C)				
Communication Interface	RS485, Wi-Fi (2.4 GHz, supports 802.11b/g/n), RJ45 (Ethernet TCP protocol), LTE 4G, (EC800M-CN, EC800M-EU, EC800M-LA) LoRaWAN (Supported regions: RU864, IN865, EU868, US915, AU915, KR920, AS923-1~4)				
Communication Protocol	MQTT, Modbus-RTU, Modbus-TCP, BACnet-MS/TP, BACnet-IP, Tuya, Qlear, or other custom protocols				
Data Logger Inside	 Storage frequency ranges from 5 minutes to 24 hours. For example, with data from 5 sensors, it can store records for 78 days at 5-minute intervals, 156 days at 10-minute intervals, or 468 days at 30-minute intervals. Data is downloadable via a Bluetooth app. 				
Operating Environment	• Temperature: -10~50°C • Humidity: 0~99% RH				
Storage Environment	• Temperature: -10~50°C • Humidity: 0~70%RH				
Enclosure Material and Protection Level Class	PC/ABS (Fireproof) IP30				
Dimensions /Net Weight	91.00mm × 111.00mm × 51.00mm / 295g				
Mounting Standard	 Standard 86/50 type junction box (mounting hole size: 60mm); US standard junction box (mounting hole size: 84mm); Wall mounting with adhesive. 				



A healthier life

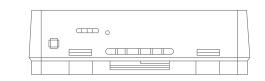
Built on a trusted environment

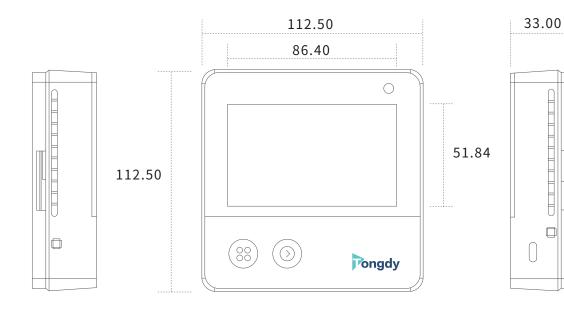
Sensor Parameters

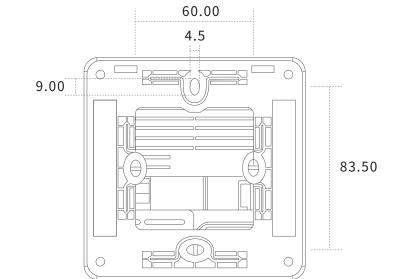
	CO ₂	TVOC	PM2.5	PM10	PM1.0	Temperature & Humidity
Sensor Type	NDIR (Non-Dispersive Infrared)	Metal Oxide Semiconductor	Laser Particle Sensor	Laser Particle Sensor	Laser Particle Sensor	Digital Integrated Temperature and Humidity Sensor
Measurement Range	400 ~5,000ppm	0.001 ~ 4.0 mg/m ³	$0\sim 1000~\mu g/m^3$	$0\sim 1000\mu g/m^3$	$0\sim 500~\mu { m g/m^3}$	-10°C ~ 50°C, 0 ~ 99% RH
Output Resolution	1ppm	0.001 mg/m³	1 μg/m³	1 μg/m³	1 ug/m³	0.01 °C, 0.01% RH
Accuracy	±50 ppm + 3% of reading or 75 ppm	<15%	±5 μg/m³ + 15% @ 1 ~ 100 μg/m³	±5 μg/m³ + 15% @ 1 ~ 100 μg/m³	±5 ug/m² + 10% @ 0 ~ 100 ug/m³ ±5 ug/m² + 15% @ 100 ~ 500 ug/m³	±0.6°C , ±4.0%RH

	Noise Illumination		HCHO (Formaldehyde)	CO (Carbon Monoxide)	Atmospheric Pressure	
Sensor	Frequency Range: 100 \sim 10K Hz	Measurement Range: 0.96 \sim 64,000 lx	Electrochemical Formaldehyde Sensor	Electrochemical CO Sensor	MEMS Nano Sensor	
Measurement Range	Sensitivity: -36 ± 3 dBFS	Measurement Accuracy: ±20%	0.001 ~ 1.25 mg/m³ (1ppb ~ 1000ppb @ 20°C)	0.1 ~ 100 ppm	260 hPa ~ 1260 hPa	
Output Resolution	Acoustic Overload Point:130 dBSPL	Incandescent/Fluorescent Light Sensor Output Ratio: 1	0.001 mg/m³ (1ppb @ 20 C)	0.1 ppm	1 hPa	
Accuracy	Signal-to-Noise Ratio: 56 dB(A)	Low Light (0 Ix) Sensor Output: 0 + 3 count	0.003 mg/m ³ + 10% of reading (0 \sim 0.5 mg/m ³)	±1 ppm (0~10 ppm)	±50 Pa	

Dimensions P16







Į		l

With 16 years of continuous R&D and expertise in sensor technology, we have built a strong specialization in air quality monitoring and data analysis.

- Professional design, class B commercial IAQ monitor
- Advanced fitting calibration and baseline algorithms, and environmental compensation
- Real-time indoor environment monitoring, delivering accurate and reliable data to support decision-making for intelligent, sustainable buildings
- Provide reliable data on health and energy efficiency solutions to ensure environmental sustainability and occupant well-being

200+

A collection of more than 200 varied products.

30+ Exported to 30+ countries and regions

100+

Collaborations with more than 100 multinational companies

500+ Having successfully completed over 500 long-term global projects





PGX Amazing Indoor Environment Monitor

A Healthier Life – Built on a Trusted Environment









Pongdy



Tongdy Sensing Technology Corporation

Address: Building 8, No.9 Dijin Rd, Haidian Dist. Beijing ChinaEmail: contact@tongdy.comWebsite: https://www.iaqtongdy.comPhone:+86 10 5973 8938 ext 8032WhatsApp: 86 15010290079