



Tongdy Sensing Technology Corporation

20 Years of Contribution to Air Sensing and Solution

Sensing Empowers The Future



Who we are?

- The leader of air quality monitoring solutions
- Provide advanced and high-quality products and services
- More than 20 years application experiences



About Tongdy

Since 1999- Now

Tongdy Sensing Technology Corp. was founded in 1999, and located in Beijing China. With strong technical development and product design capabilities Tongdy has focused on research and development of air quality monitors, gas transducers and controllers of BAS, HVAC systems. Besides providing hardware devices, we also provide air quality data and solutions based on our **MyTongdy** data platform.



Tongdy Specialty



01 / Located in Beijing with development and manufacture of high quality products.

02 / Focus on air quality monitoring and control in BAS and HVAC systems for more than 23 years.

03 / Have our own R&D building with professional calibration chambers and laboratories

04 / Products have been used in more than 150 projects across 30 countries.

Target Market



North America

Europe

Asia

Africa

South America

Australia

Arctic Ocean

Pacific Ocean

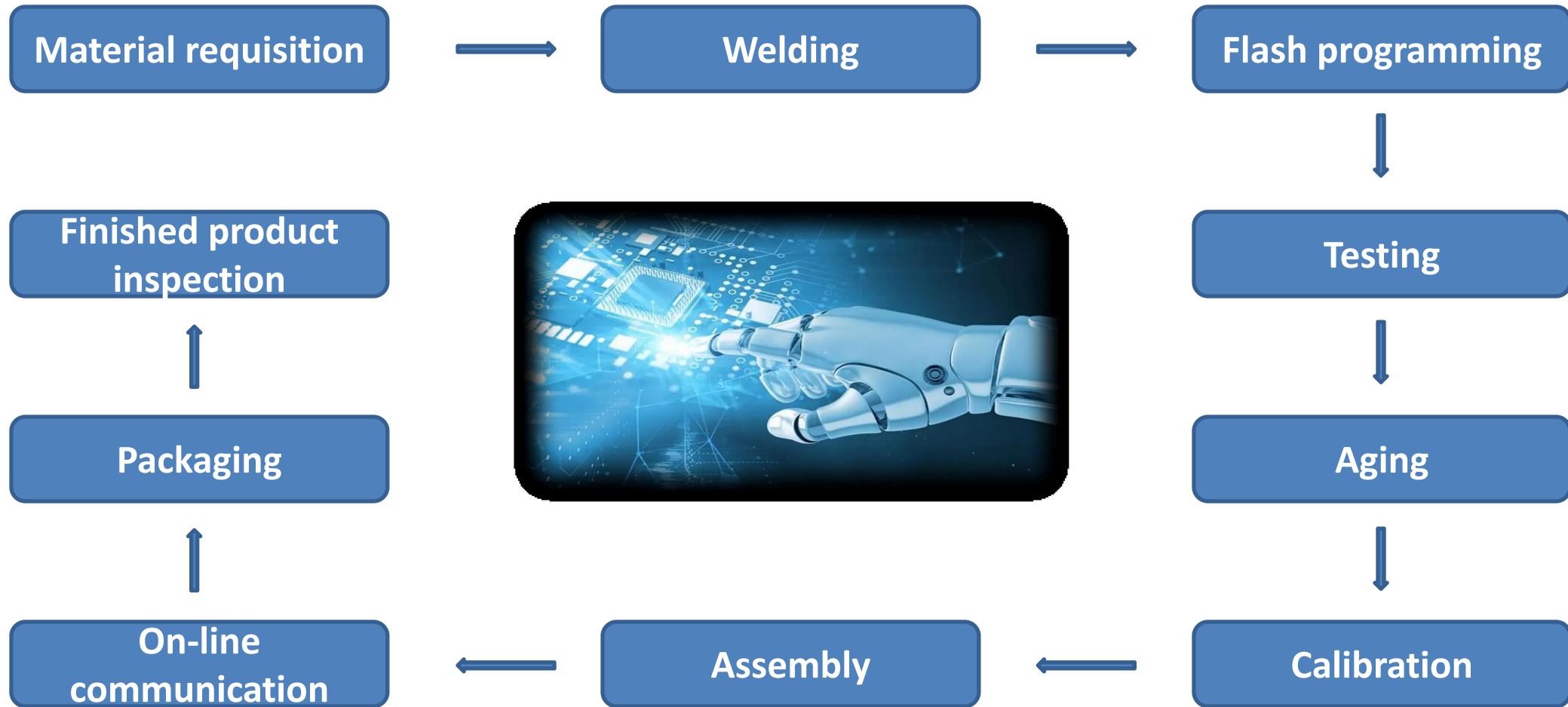
Atlantic Ocean

Indian Ocean

Antarctica

- Europe
- South-east Asia
- Middle east gulf region
- North America
- Australia / New Zealand
- Local China

Tongdy's technical process



Technical advantages

Numerous product lines



- Real-time online monitoring, PM, CO₂, CO, O₃, TVOC, HCHO...
- Single gas or multi-sensor monitors
- Indoor, in-duct and outdoor monitors
- Modbus RTU, BACnet MS/TP, WiFi and Ethernet various communication ways

Compensation algorithm



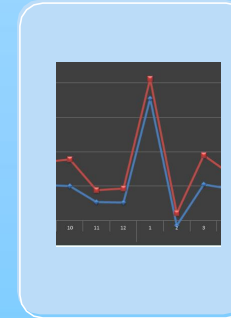
- Built-in real time data processing and compensation algorithm to eliminate the impact on measurements from environmental temp. & RH changing
- Based on more than 20 years' experience on air quality monitoring and plenty of experiments.

Site Control



- Supply relay outputs, analog linear output, PID output
- Strong on-site setting function
- Connect PLC, DDC, fans, dampers, etc., for real-time direct control

Data acquisition and analysis



- Measuring data can be sent to cloud platform with WiFi or Ethernet
- Measuring data can be dowloaded with excel or PDF version by values or curve graph
- Used for data analysis and proposal

Products and Applications

Production Summary

- CO2 monitor/controller
- CO, TVOC detector/controller
- Ozone detector/controller
- PM2.5/PM10 detector
- T&RH transmitter/controller
- Indoor air quality monitor with multi sensors
- In-duct air quality detector with multi sensors
- Outdoor air quality detector

Applications

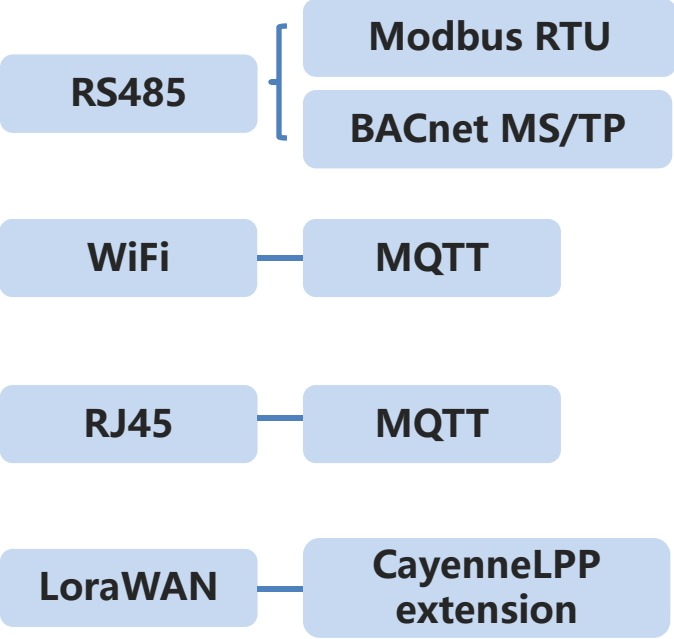
- Ventilation systems
- HVAC systems
- BMS, BAS systems
- ESG
- Green buildings
- Schools, shopping malls, offices, hotels, other public places
- Stores, hospitals, underground parking...

Tongdy's multi-sensor air quality monitors

- PM2.5
- PM10
- CO2
- TVOC
- HCHO
- TEMP
- RH%
- CO
- OZONE
- SO2
- NO2
- NOISE
- LIGHT
- Atmospheric pressure



Communications



Tongdy's single gas and temp. & RH transmitter/controller

CO2

CO

TVOC

PM2.5

PM10

OZONE

HCHO

TEMP

RH%

Relay
Analog
Modbus RTU
Bacnet MS/TP

HVAC
BAS



Data and service platform

- Gathering air quality data
- Data comparison and analysis
- Real time data and curves, historical data download
- Remote sensing correction
- Remote firmware upgrade
- Remote hardware inspection and fault diagnose



Air Quality Monitors-Data Gathering and Showing Scheme

Plan A: Monitor collects air measurements on-site



Upload to the cloud server



PC display and analysis data, with remote maintenance for monitors

Plan B: Monitor collects air measurements on-site



Upload to cloud server MyTongdy



PC display and analysis data, remote maintenance for monitors



Real time data shows to clients through PC or TV

Plan C: Monitor collects air measurements on-site



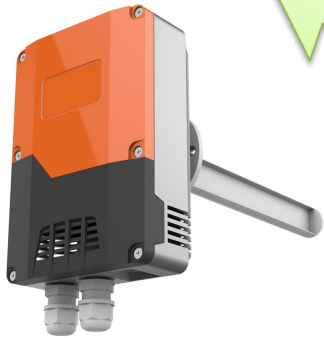
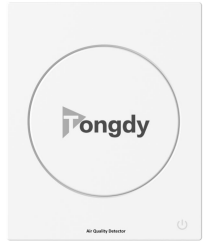
Download data through Bluetooth App



Screen display, with data viewing

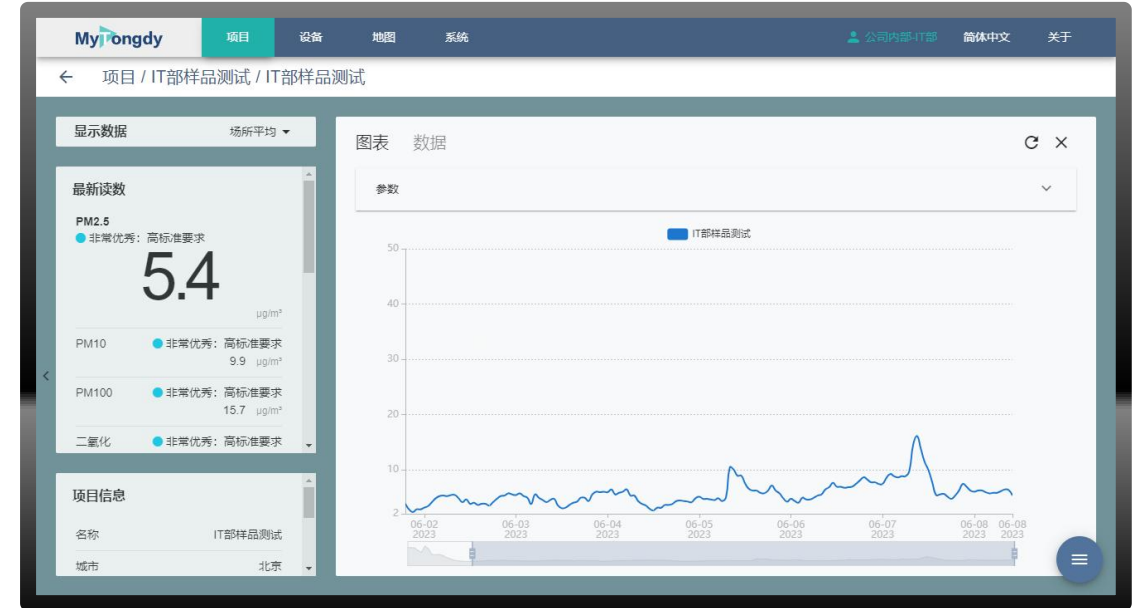
Plan A Viewing and analyzing data

Data platform - View and analyze data on a PC



Monitors upload data

Bluetooth network configuration by the App



View data on your mobile

Data direction

Manual operation

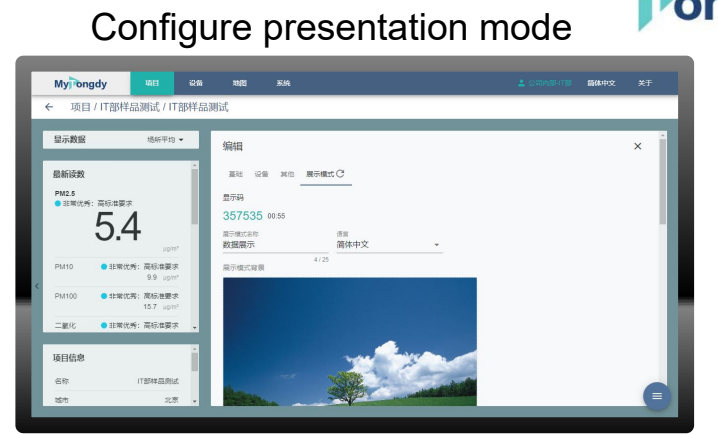
Plan B

Viewing and analyzing data and showing real-time data

MyTongdy Data Platform



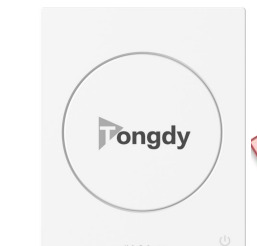
View and analyze data



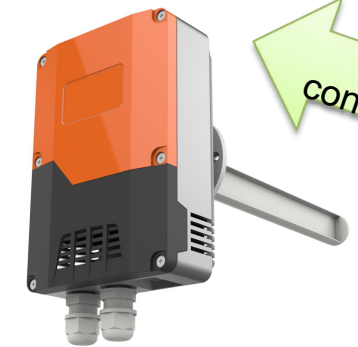
Configure presentation mode

create a verification code

Login through verification code



Upload data



Bluetooth network configuration by Mobile App



Data presentation

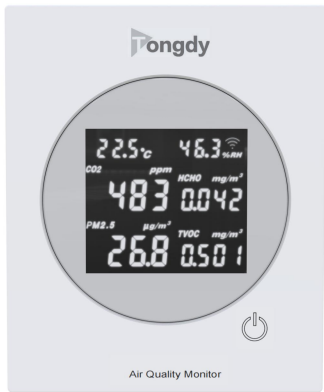


Display real-time data (Android stb or PC)

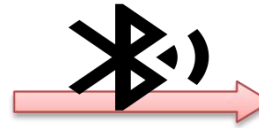
Data direction

Manual operation

Plan C Monitors display data and download data



monitor built-in data logging



Bluetooth connection through mobile App
Download data to a text file or CSV table file

monitors can be switched on/off Bluetooth connection

Cooperation Partners:



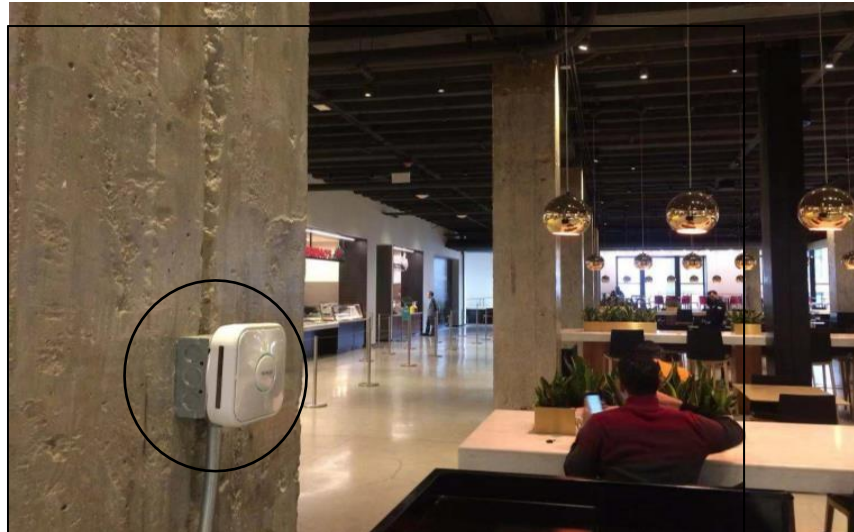
Panasonic
ideas for life



Previous business projects review:

Project Name	Application Place	City/Country	Involved products Model
Plant a Sensor	Indoor and Outdoor	28 member countries	MSD, PMD, TF9
theMART	Commercial Building	Chicago/USA	MSD
Logan, Phoenix,	Airports	Boston/USA	MSD/PMD
Citibank HK	Bank	Hongkong	MSD
ByteDance China	26x Office building	10 cities/China	MSD
One Bangkok	Commerical building	Bangkok/Thailand	MSD
ENEL CODENSA	Office building	Bogota/Colombia	MSD
DMRC	Commerical building	New Delhi/India	MSD
Birch Lane	Residential	Hampshire/UK	MSD
Highland Park	Housing	Dallas/USA	PMD

Real live application



More application examples:



Commercial office buildings



Shopping malls



Restaurants and Stores



Schools and libraries



Airports and metros



Apartment buildings and residences

Cooperation with industry associations:

WGBC(World Green Building Committee) → Plant a Sensor project

- Global deployment of indoor and outdoor air quality monitoring project.
- Tongdy is the only partner of this activity sensing monitors and provides indoor/ air duct/ outdoor air quality monitors
- These monitors have been installed in demonstration buildings in 37 Member States.



WELL China living lab:

- WELL is a global evaluated system for green and healthy buildings
- China living lab is the first researching object dedicated to human beings to explore indoor environment
- Study experimental objects in different air, light, sound environments and environmental changes the impact of architecture on physical health.



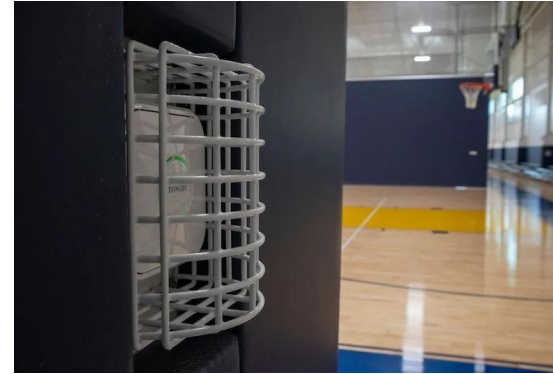
Green building assessment program

- LEED, WELL, BRE , RESET Green Building Certificate

- . Green hotels
- . Commercial buildings
- . Shopping mall, Restaurants, Bars
- . Offices, Gymnasiums

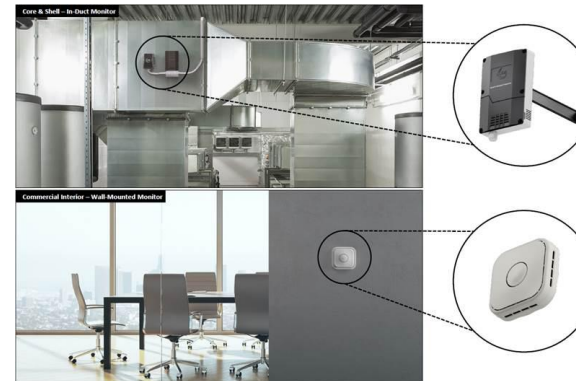
- WGBC(World Green Building Committee)

- . Plant a Sensor project in 38 countries



Plant a Sensor

A global air quality monitoring campaign





Tongdy Sensing Technology Corp.

Looking forward to collaboration with you!

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