

Vision

A Fire-Free World, Smarter Fire Protection

Mission

Where righteousness lies, we press forward without hesitation.

Value

Customer-oriented, data-driven, platform-enabled, product-mediated, mission-empowered. Rooted in Beijing, we reach out to the world.



National High-tech Enterprise
Beijing SRDI Enterprise

One-Stop Smart Fire Safety Solution

Wan Lin fire fighting Technology Co., Ltd.

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Wanlin WeChat



Jellyfish WeChat

Wanlin AI, Detect Fires Earlier

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Company profile

Wanlin Fire Safety was founded in 2014. As a national high-tech enterprise, we leverage technologies including the Internet of Things, cloud computing, big data and geographic information systems to deliver customized, information-based solutions for smart fire protection and safety management tailored to diverse scenario requirements. In 2022, we were accredited as a **Beijing SRDI (Specialized, Refined, Differentiated and Innovative)** Enterprise in the third batch and recognized as a **Beijing Intellectual Property Pilot Entity**.

Backed by profound technical expertise and a high-caliber talent pool, the company adheres to an innovation-driven development strategy. Through years of R&D and exploration, we own independent brands "Wanlin" and "Smart Home Safety". Powered by technological innovation and new operation models, **we build cloud-based smart fire safety management platforms featuring customized intelligent supervision, automatic operation and instant alarm functions for clients**. Our product and service portfolio covers intelligent fire alarm systems, intelligent pressure & liquid level monitoring systems, smart kitchen safety systems, electrical fire monitoring systems, remote fire control panel alarm systems, residential fire safety management systems, urban interconnected smart fire protection networks, intelligent security systems, platform remote alarm systems and platform remote monitoring systems.

In 2024, Wanlin Fire Safety launched the "Jellyfish IoT" home fire safety product line. Focused exclusively on residential safety, Jellyfish IoT empowers comprehensive household protection through technological innovation. It interconnects all household safety devices to enable remote monitoring and management, tracking potential hazards including smoke, gas leakage, water seepage and abnormal electricity usage. The system sends instant alerts upon detecting any irregularity, allowing users to respond rapidly and eliminate risks before emergencies occur. Beyond intelligent fire early warning hardware, this product ecosystem integrates lifestyle services such as property management, home maintenance, interior renovation and residential fire insurance — delivering all-round safety alongside convenient daily living support.

Development History & Future Plans

• 2014

Wanlin Company was founded in Tongzhou District, the sub-center of Beijing. It undertakes the construction and renovation of fire protection projects and commits itself to the fire protection industry.

• 2015

The company entered into an official cooperation with Bosch Heavy Industry Germany, expanding into integrated service of fire extinguishing systems for engine test benches nationwide.

• 2016

Wanlin's self-developed WIFI smoke detector was launched to the market. In the same year, the smart fire cloud platform went online officially, marking the company's formal entry into the smart fire protection market.

• 2017

The Wanlin Cloud Platform was officially launched, using the well-known domain name in the fire protection industry: xiaofangCRT.com, the fire image visualization platform.

• 2018

After six months of research and development, the 916 fire alarm host transparent transmission module was officially released. The company formally stepped into the remote monitoring system for smart fire alarm hosts.

• 2019

Officially became a strategic smart fire protection service provider of Shanghai Fire Protection Association. In the same year, the company won bids for smart fire renovation projects including Pudong International Airport, Shanghai Disneyland and Yadong Petrochemical.

• 2020

The company's fire testing equipment and fire safety assessment equipment occupied 60% of the fire protection industry market share. The company obtained international certifications including ISO9001 and ISO14001.

• 2021

Internal project approval for the Ai119.CN integrated fire & security platform was initiated; R&D of the wireless fire alarm control panel was confirmed.

• 2022

Awarded the title of Specialized, Refined, Differential and Innovative "Little Giant" Enterprise. The Shenzhen factory was constructed and put into operation.

• 2023

Hainan Senlin Management Co., Ltd. and Hunan Wanlin Smart Safety Co., Ltd. were established.

• 2024

Shuimu IoT, a wholly-owned subsidiary of Wanlin, was founded, marking Wanlin's official entry into the home safety track. The official website: www.ai119.cn. Wang Liusen, founder of Wanlin, was elected Vice President at the 6th Member Congress and General Election Conference of Beijing Fire Protection Association.

• 2025

The Home Fire Safety Branch of Beijing Fire Protection Association was established, with Wang Liusen serving as President. Wanlin Shenzhen Branch relocated to Bestar Building, realizing the third capacity expansion. R&D on campus safety series products was launched.

• 2026

Shuimu IoT plans to complete layout in 1,000 districts and counties. The duty room AI robot launches trial operation, and the campus safety product series is expected to cover 1 million student users.

• 2027

The AI home fire & security package is projected to cover 10 million households. The AI duty room robot enters full-scale promotion and application.

• 2028

Targeting to serve 20 million household and enterprise users globally, with IPO listing planning underway.

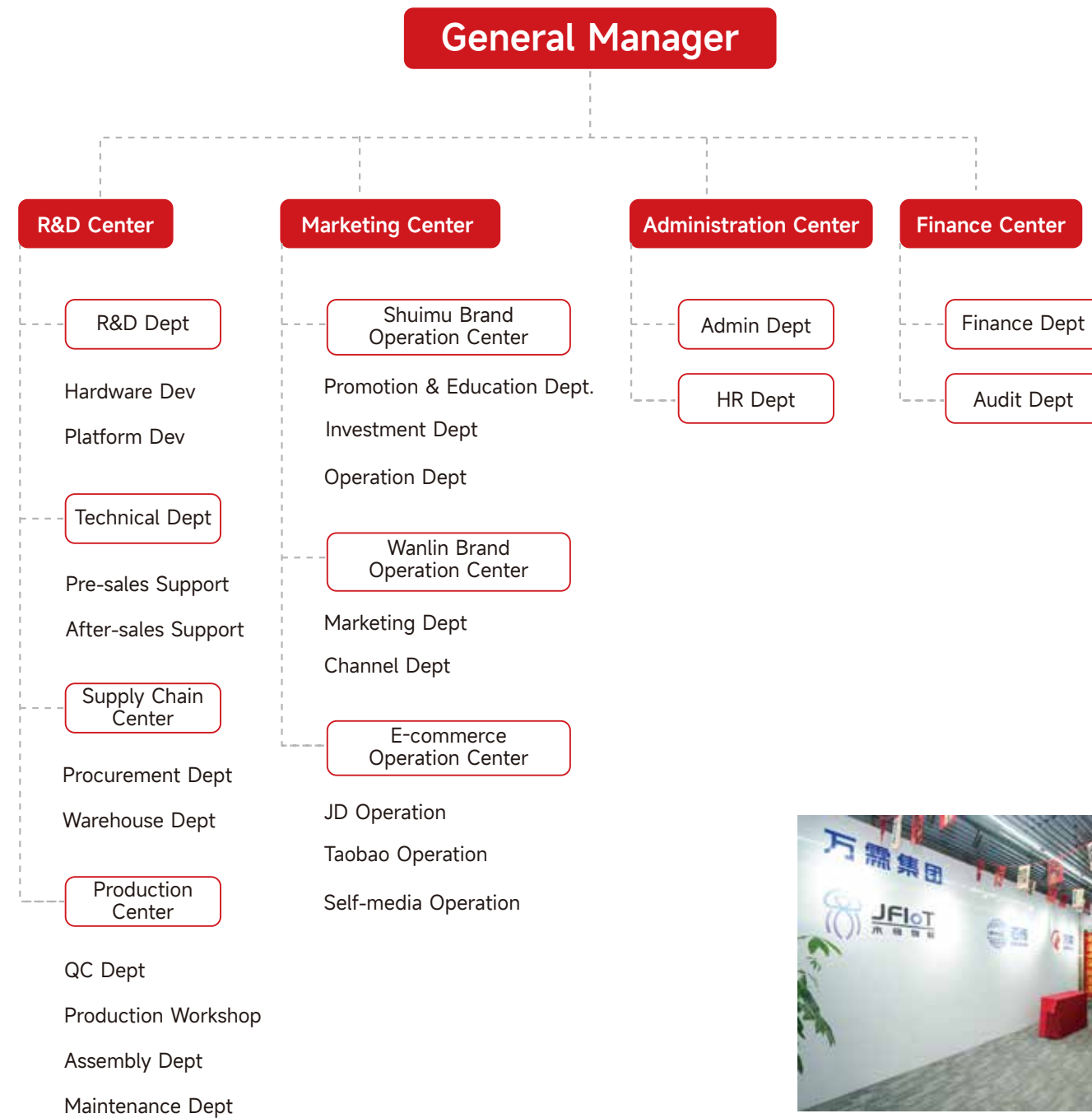
• 2029

Carry out preparation work for IPO. AI robots are planned to be deployed in 500,000 duty rooms, and the Shuimu Ecosystem will form a complete closed loop.

• 2030

Plan to complete listing on the Beijing Stock Exchange, targeting to serve 50 million home safety users worldwide.

Enterprise architecture



Business license



Wanlin Fire Protection Technology Co., Ltd.



Shenzhen Branch of Wanlin Fire Protection Technology Co., Ltd.



Beijing Wanlin Wancheng Technology Co., Ltd.



Hainan Wanlin Qianyan Technology Co., Ltd.



Wanwu Lianlin (Shanghai) IoT Technology Co., Ltd.



Shenzhen Shuimu IoT Safety Technology Co., Ltd.



Wanlin (Guangzhou) Fire Protection Technology Service Co., Ltd.



Xinjiang Wanlin Smart Fire Protection Technology Co., Ltd.



Sichuan Wanlin Smart Fire Protection Engineering Co., Ltd.



Renjiu Wanlin Smart Safety Technology Co., Ltd.



Hebei Guoke Wanlin Group Co., Ltd.



Jincheng Wanlin Trading Co., Ltd.

Honors & Qualifications



Awarded the title of Beijing Municipal Third Batch of "Specialized, Refined, Differential and Innovative Enterprises" in 2022

Granted the Certificate of Intellectual Property Pilot Unit in 2022

Certified as a High-tech Enterprise in 2023



Patent Certificates



Software Copyright Certificates



English Translation

Authoritative Certifications

Since its establishment in 2014, the company has obtained **5** invention patents, more than **20** utility model and design patents, and over **100** software copyrights.

Win-Win Prosperity

Welcome all the Global Strategic Partners

As a pioneer in the fire protection technology sector, Wanlin Fire Protection Technology Co., Ltd. sincerely opens the door for cooperation and invites like-minded partners to join our investment and franchise program. Since its foundation, we have deeply cultivated the fire safety industry. Supported by robust R&D capabilities and forward-looking market insights, we are committed to developing comprehensive solutions integrating intelligent fire products and safety management platforms, striving to improve public safety and safeguard every home.

We boast an elite team consisting of industry specialists and innovative talents. They are not only drivers of technological innovation, but also keen observers of market trends. Through persistent efforts, we have independently developed a series of intelligent fire products widely recognized by the market. Featuring outstanding performance, efficient early warning & response capacity and user-friendly interfaces, these products have played vital roles in numerous projects and earned widespread acclaim.

Our franchise model aims to help franchisees quickly establish a foothold in local markets and achieve profitability by sharing resources, technical support, brand influence and a mature operation system. We provide all-round training support, marketing strategy guidance, customized solution design and other services, ensuring every partner can forge ahead in the blue ocean of fire protection technology and create a win-win situation.

By choosing Wanlin Fire Protection, you will join a dynamic, innovation-driven team with boundless potential. We believe that through close cooperation and joint efforts of both parties, we can not only promote technological progress and wider application within the fire protection industry, but also bring you considerable economic benefits and social value.

We look forward to cooperating with you to write a brilliant chapter in a new era of fire safety!



Wanlin Innovation Model

Innovate

Wanlin Phase 1.0:

Focused on equipment manufacturing.

Wanlin Phase 2.0:

Focused on providing full-scenario solutions.

Wanlin Phase 3.0:

In response to the new era trends of fire protection industrial upgrading, the company achieved transformation and upgrading, pursued cross-industry integration, and embarked on model innovation.

ENTERPRISE ARCHITECTURE

Mandatory Solutions for Social Service Institutions

Reliable Product Compliance

National standard certified devices compliant with Document No.88, pass dual random inspections smoothly.

Stable Channel Orders

Tiered favorable prices for bulk procurement.

Effortless Inspection

Lifetime calibration reminders, avoid fines for missed inspections, cut manual ledger costs.

Dual Revenue Streams

Device sales + calibration trusteeship for sustainable recurring income.

Strong Technical Support

In-house smart fire R&D team, supply full digital intelligent maintenance solutions.

Strong Competitiveness

Differentiated value-added services to lock local maintenance partners.

Upgraded Business Model

Integrated hardware & software solutions Break revenue bottleneck of traditional single inspection maintenance.

Diversified Profit Sources

Multi-layer earnings from equipment, platform and patrol services, breaking profit bottlenecks.

Safety Assessment Product Introduction

Building Smoke Density Meter

A119-YMD

The smoke density tester is an instrument for static combustion testing of building materials. It uses propane gas with purity no less than 85% as the gas source.

Bunsen burner nozzle diameter: $\varnothing 1.13$ mm. The Bunsen burner forms a 45° angle with the smoke chamber.



Flue Gas Analyzer

A119-310

The flue gas analyzer adopts electrochemical sensors to continuously detect concentrations of CO_2 , CO , NO_x , SO_2 and other flue gas components. It is mainly applied to portable environmental monitoring near pollution sources or emission testing of small oil-fired and gas-fired boilers.

According to application forms, it can be divided into handheld flue gas analyzers and fixed connected recording flue gas analyzers.



Radiant Heat Flux Meter

A119-FSRTLJ

The radiant heat flux meter is a quantitative testing device for thermal radiation transfer. It serves as vital equipment to measure the magnitude of thermal radiation transfer and evaluate thermal radiation performance. The value of thermal radiation indicates the degree of energy transfer. In other words, it measures the magnitude and direction of transmitted thermal radiation energy.

A radiant heat flux meter consists of a radiant heat flux sensor, display instrument and connecting cables. The display instrument can be a digital voltmeter, data logger or data acquisition system.



Fire Testing Equipment Product Introduction

Class I & Class II Fire Testing Tools

A119-01-04

Compliant with GA1157-2014 national standard. Adopts self-developed and imported dual configuration for longer service life and stable performance. Equipped with complete after-sales support to ensure reliable fire inspection.



Explosion-Proof Fire Detector Function Tester

A119-YW

Built-in intelligent electronic induction system, no frequent switch operation required, avoiding electric spark risks. Automatically generates smoke/heat at 3-5cm distance, enabling safe, fast and convenient detector testing for explosion-proof scenarios.



Explosion-Proof IR & UV Detector Function Tester

A119-HY

Eliminates the limitations of traditional butane flame simulation devices. Composed of IR & UV emission units, light concentrator, optical filter and EPU high-energy photoelectric conversion chip. Applicable to hazardous areas: gas stations, LPG stations, chemical plants and other flammable & explosive environments.



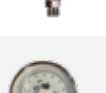
Electrical Fire Inspection Equipment

Electrical fire inspections target electrical facilities in public and crowded sites. Devices such as infrared thermometers, ultrasonic leakage detectors and leakage current detectors support non-contact live testing, rapidly detecting hidden risks including overheating and electric arcing.



Testing Instruments List

Serial No.	Device Image	Device Name	Model	Quantity	Remarks
1		Stopwatch	A119-MB	3	Measuring range: ≥15min Accuracy:0.1s
2		Tape Measure	A119-5M	2	Measuring range: ≥30m Accuracy:1mm
3		Steel Tape Measure	A119-30M	2	Measuring range: ≥5m Accuracy:1mm
4		Vernier Caliper	A119-KC150	3	Measuring range: ≥150m Accuracy:0.02mm
5		Steel Ruler	(0~600) mm	3	Measuring range: ≥150m Accuracy:0.02mm
6		Square Ruler	(300X50)mm	3	Mainly used for the inspection of fire hose reels
7		Electronic Scale	/	1	Measuring range: ≥30kg
8		Dynamometer	ZMF-500	1	Measuring range: 50N ~ 500N Accuracy:±0.5%
9		High-intensity Flashlight	A119-QG	4	/
10		Laser Distance Meter	A119-k60	3	Measuring range: ≥50m Accuracy:3mm
11		Digital Illuminance Meter	A119-101B	3	Measuring range: ≥20001 x Accuracy:± 5 %
12		Digital Sound Level Meter	A119-SJJ	3	Measuring range:30dB ~ 130dB Accuracy:1.5dB
13		Digital Anemometer	A119-891	3	Measuring range:0m/ s ~ 45m/ s Accuracy:±3%
14		Digital Micro Manometer	A119-WYJ	1	Measuring range:0Pa ~ 3000Pa Accuracy:± 3 % With zero reset function and equipped with test hoses
15		Digital Thermometer	A119-WD	1	For ambient temperature and humidity detection

16		Ultrasonic Flowmeter	A 119-CSB	1	Measuring pipe diameter0 ~ 300mm Accuracy:± 1 %
17		Digital Inclinator	A 119-PDY	1	Measuring pipe diameter0-90° Accuracy:±1°
18		Verticality Tester	A 119-CZD	1	Measuring range:0mm ~ 500mm Accuracy:± 0.2μm
19		Water Spraying Terminal Test Connector	A 119-SS	3	Pressure Gauge measuring range: 0MPa ~ 1.6MPa; Accuracy:Class 1.6
20		Fire Hydrant Terminal Test Device	A 119-SS	3	Pressure Gauge measuring range: 0MPa ~ 0.6MPa; Accuracy:Class 1.6
21		Earth Resistance Tester	A 119-JDDZ	2	Measuring range:0Ω ~ 1000Ω Accuracy:±2%
22		Insulation Resistance Tester	A 119-JYDZ	2	Measuring range:1MΩ ~ 2000MΩ Accuracy:±2%
23		Digital Multimeter	A 119-890	3	It can measure AC/DC voltage, current, resistance, capacitance, etc.
24		11-in-1 Smoke & Temperature Detector Function Tester	A 119-YW	3	The height of the test rod is no less than 2.5m, equipped with a smoke gathering cover and built-in power cord; continuous working time is no less than 2 hours.
25		Linear Beam Smoke Detector Filter	A 119-LGP	1	One filter each with attenuation values of 0.4dB and 10.0dB respectively; handheld design available.
26		Flame Detector Function Tester	A 119-HY	1	Infrared wavelength ≥850nm, ultraviolet wavelength ≤280nm; the height of the test rod is no less than 2.5m.
27		Leakage Current Tester	A 119-206	1	Measuring range:0 A ~ 2 A Accuracy:0.1m A
28		Portable Combustible Gas Detector	A119-202/EX	1	It can detect the concentration of combustible gases such as carbon monoxide, hydrogen, ammonia, liquefied petroleum gas and methane.
29		Digital Pressure Gauge	A 119-SZYL B	1	Measuring range:0MPa ~ 20MPa; Accuracy:Class 0.4; With zero reset function
30		Water Mist Terminal Test Device	A 119-XSW	1	Pressure Gauge measuring range: 0MPa ~ 20MPa; Accuracy:Class 0.4
31		Town	A 119-01/04	4	/

Lifetime Tracking Service

Resolve Difficulties for Fire Technical Service Organizations



Build dedicated archives, track and remind for upcoming inspections.



Senior experts offer hands-on guidance on professional practice details.



Professional policy interpretation by authoritative experts to help fire service institutions evade risks.



Wanlin's three core models help fire service institutions break profit limits and boost core competitiveness.

Smart Maintenance Empowerment

Break profit bottlenecks of fire maintenance enterprises and enhance service competitiveness.

The Smart Fire Maintenance Management Platform serves companies maintaining building fire facilities. Fire maintenance enterprises are key drivers of socialized fire safety, acting as full-time stewards of fire equipment to protect users' safety.



Values

1. Social Organizations:

Real-time access to maintenance records and completion rates. Realize standardized, transparent fire management, ensure effective fire facilities and lift building fire safety standards.

2. Maintenance Technicians:

Standardized guided operations improve professional capability. Simplify workflows and raise working efficiency.

3. Management Teams:

Monitor staff performance and support performance assessment. Standardized maintenance improves service quality, enhances corporate reputation and accelerates market expansion.



Wanlin AI Home Safety & Fire Protection Package

Policy Adaptation

5-in-1 protection powered by AI for fewer false alarms. Meets requirements of high-rise rectification & smart elderly care projects.

Efficient Customer Development

Centralized procurement for communities & properties. Zero franchise fee for easy start; hardware profit share above 50%.



Simple Installation

Wireless, wiring-free setup finished in 3 minutes. 3-5 years long endurance, supported by ¥2.1 million insurance guarantee.

Continuous Recurring Benefits

Stable revenue from annual checks and insurance renewals. Extra income for property & housekeeping businesses.



Easy Inspection Preparation

26 sets of inspection records & cloud management system. One-click generation of independent household safety files.

Comprehensive Partner Support

Public welfare solutions & elderly-oriented negotiation scripts. One-on-one operation mentoring for market expansion.



AI Home Safety & Fire Protection Package

24/7 AI Monitoring | Multi-user Synchronized Alerts | Multi-Zone Arm Function



The Wanlin AI Smart Connected Home Safety & Fire Protection System provides essential equipment for residential fire safety. It is also applicable to nursing homes, small restaurants, barbershops, nine-category small venues and other sites. Standardized deployment of such equipment is critical for household fire hazard prevention.



Kitchen Guardian

Kitchen Guardian monitors unattended cooking scenarios where users leave the kitchen without turning off stoves or electric appliances.

It issues reminders when cooking proceeds without supervision. When the gateway alarms, instant alerts are pushed to your mobile via calls, SMS and APP.



Wanlin Smart Fire Safety Solution for Nine Small Premises

Policy-Aligned Products

Fit for shop & catering rectification policies; Low-cost NB-IoT lightweight upgrading



Bulk Project Bidding

Access sub-district renovation projects, Exclusive regional authorization against price wars

Reduce Regulatory Burden

Multi-dimensional real-time monitoring
Remote multi-channel alerts to cut accountability risks



Dual Income Sources

Equipment supply + platform O&M, ample profit space

Closed-Loop Records

Auto-save full alarm & rectification data, Easily cope with random fire inspections



Lightweight Operation

Free platform deployment
7×24h HQ O&M support, zero R&D expenditure

Service Model (Five "Ones")

01 One Insurance (Compensation for property losses and personal injury)

Covers compensation for fire-related property losses and personal casualties.



02 One Team (Local on-site service team)

Local on-site team providing hazard inspection & rectification, routine inspection, on-site alarm confirmation, hazard removal assistance and equipment maintenance.

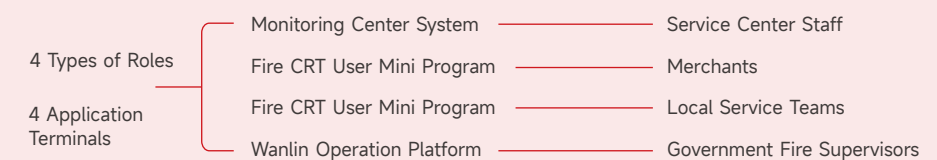


03 One Service Center (7×24-hour Localized Service)

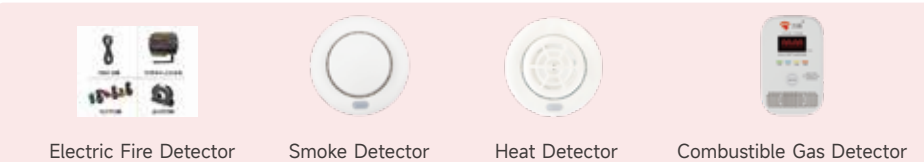
- Real-time equipment monitoring
- Phone call alarm alerts
- Auxiliary fire response
- Dynamic hazard inspection & handling
- Independent household safety archives
- Regional fire safety one-map management
- Monthly analytical reports
- Fire safety news & updates
- Online fire safety training



04 One Platform (Fire CRT Cloud Platform)



05 One Network (Fire IoT)



Value Advantages & Model Innovation

Traditional Fire Safety Operation Model

- Overemphasize construction, underinvest in services
- Large government investment, frequent stalled projects
- Projects short-lived and unsustainable



Smart Fire Safety Operation Model

- Free deployment & services enabled by Internet
- Sharing economy, equipment leasing solution
- Low or zero government expenditure, benefits for property owners
- Long-term sustainable services

Smart Fire Supervision Service Operation Model for Nine Small Places

Industry Pain Points

1.Weak fire infrastructure, low intact rate of fire equipment.

2.Insufficient supervision methods and heavy workload.

3.High cost and long cycle, great financial pressure on governments.

Problems in Social Fire Protection

4.Focus on construction rather than management, poor implementation effect.

5.Weak public awareness; inadequate fire safety education causes frequent accidents.

Introduction

Leveraging advanced technologies such as 5G, big data, cloud computing and AI, the Wanlin Smart Fire Safety Service Model takes township and sub-district smart fire service stations as the foundation and integrates Internet Plus Fire Safety.

Relying on the Wanlin smart mini-program and offline service stations, it supports online ordering and offline services. We provide end-to-end services including project survey, assessment, scheme design, construction, operation and maintenance, as well as 7×24-hour online duty to ensure early identification and rapid handling of fire risks.

Hardware

Smoke, electrical, water, gas, IoT & AI video surveillance

Services

Installation + O&M + Supervision + Insurance

Platforms

Fire Hazard Monitoring Platform + Supervision Platform

Value

Responsible Entities

7×24h monitoring of fire equipment, automatic data statistics, intelligent hazard control and regular supervision. Insurance-backed risk prevention.

Supervisors

Alleviate manpower shortage and enforcement difficulties. Achieve hierarchical, remote, digital and visual fire supervision.

Society

Form a unified fire hazard prevention network with full infrastructure coverage. Root out fire risks and deliver grassroots fire safety governance.

Functions



Installation & Deployment



Equipment Management



Hazard Inspection & Rectification



7×24h Online Duty



Owner Notification & 119 Alarm Assistance



Insurance Services



Safety Reports for Fire Authorities

System Architecture





Wanlin Smart Fire Solution for Key Entities

Solid Qualifications

Benchmark cases in airports, universities, malls; complete credentials for major tenders.



Boost Bidding Success

Headquarter bid support; professional survey & acceptance assistance.

Low Retrofit Cost

Security-fire integration compatible with legacy devices; avoid full reconstruction to save costs.



Sustainable Partner Revenue

Maintenance & trusteeship business; recurring multi-channel income.

Digital Management

One-map unified platform, cross-department data sharing, compliant with urban lifeline standards.



Rich Project Resources

Continuous government & enterprise high-value long-term projects.

Operation Scenarios for Key Entities

Smart Fire Protection Solution for Healthcare Industry

Hospital Wards

Pain Points: Heavy circuit load, vulnerable bedridden patients and flammable supplies.
Solution: Deploy smart electricity monitors to trigger cloud and phone alarms for timely evacuation during electrical fire risks.

Fire Control Room

Pain Points: Scattered traditional devices lack remote monitoring; manual duty relies on uneven staff capacity and is hard to supervise.
Solution: Realize remote unified management of fire facilities; install smart cameras to prevent staff off-post behavior.

Operating Areas

Pain Points: Frequent medical equipment operation causes high electrical load.
Solution: Adopt smart electricity and smoke sensors to eliminate hidden fire hazards at an early stage.



Canteen

Pain Points: Combustible gas in kitchens brings difficulties to daily management and maintenance.
Solution: Fit combustible gas detectors to monitor gas concentration; deploy flame-detection cameras with defined monitoring zones for kitchen fire surveillance.

Office Area

Pain Points: Dense crowds hard to manage; frequent use of high-power appliances.
Solution: Install smart smoke sensors, intelligent safety distribution boxes, manual call points, audible & visual alarms and smart evacuation indicators.



Hospital Canteens

Pain Points: Crowded dining areas and kitchen gas leakage pose explosion risks.
Solution: Equip combustible gas detectors for real-time leakage monitoring, early warning and automatic valve shutdown.

Public Areas

Pain Points: Damaged or under-pressure hydrants and insufficient water in fire pipes and pools hinder rescue work.
Solution: Install wireless remote monitors to track real-time water pressure and liquid level of fire facilities.

Smart Fire Solution for Construction Sites

Construction Zone

Pain Points: Frequent use of high-power electrical equipment; damaged public fire hydrants hinder rescue; manhole covers prone to loss or displacement.
Solution: Deploy smart electricity monitors, liquid level gauges, pressure gauges, smart fire hydrants and smart manhole covers.

Dormitories

Pain Points: Plenty of combustibles; dense residents; irregular power usage, random wiring and smoking behavior.
Solution: Install smart smoke sensors to trigger audible & visual alarms and notify dorm managers via phone for fire fighting and evacuation. Adopt smart electricity monitoring for real-time power data. Equip manual call points, audible & visual alarms and smart evacuation indicators.

Smart Fire Safety Solution for Elderly Care Institutions

Apartment Buildings

Pain Points: Non-standard electricity consumption, abundant combustibles; the elderly have poor safety awareness, limited mobility and weak self-rescue ability.

Solutions: Deploy smart safety distribution boxes and smart smoke detectors. Audible & visual alarms activate instantly during fires, and staff receive phone notifications to organize elderly evacuation.

Public Areas

Pain Points: Damaged / low-pressure / dry outdoor fire hydrants; insufficient pressure in fire pipe networks and empty fire water tanks

Solutions: Fire hydrant monitors for remote pressure monitoring and location tracking; smart monitors for fire pipe pressure and fire tank water level.

Rehabilitation Centers

Pain Points: Incomplete fire-fighting facilities; elderly residents have limited mobility and insufficient safety awareness.

Solutions: Adopt smart fire water pressure & liquid level monitoring systems, intelligent smoke detectors and wireless alarm buttons linked with audible and visual alarms.



Palaces & Buildings

Pain Points: Complicated open flame risks; fire hazards from incense, candles and eternal lamps.

Solutions: Intelligent smoke detectors with instant audible-visual alarms and phone alerts for emergency response. Equipped with intelligent safety distribution boxes, manual alarm points, audible-visual alarms and intelligent evacuation lights.



Canteens

Pain Points: Natural gas leakage poses high explosion risks.

Solutions: Gas leakage detectors plus electric valve actuators to automatically cut off gas supply by linkage.

Recreation Centers

Pain Points: Dense mobility-impaired elderly; frequent fire hazards from smoking and high-power electric equipment.

Solutions: Intelligent evacuation lights, smart smoke detectors and smart safety distribution boxes.

Centralized Supervision of Traditional Fire Facilities

Pain Points: Scattered facilities hard to manage remotely; monitoring relies solely on unevenly skilled on-duty staff.

Solutions: Remote connected monitoring for unified equipment management; intelligent cameras to detect staff absence.

Smart Fire Safety Solution for Cultural Relics & Ancient Buildings

Commercial Shops

Pain Points: Crowded premises, complex layout and rampant unauthorized wiring.

Solutions: Intelligent smoke detectors, intelligent safety distribution boxes, manual alarm points, audible-visual alarms and intelligent evacuation lights.

Public Areas

Pain Points: Damaged fire hydrants impede rescue; lost or shifted manhole covers endanger visitors.

Solutions:

Intelligent liquid level gauges (fire tank monitoring),Intelligent pressure gauges (pipe network pressure monitoring), Intelligent fire hydrant monitors (public hydrant pressure monitoring),Intelligent manhole covers (prevent loss, tilt and displacement)

Smart Fire Safety Solution for Education Industry

Dormitory Buildings

Pain Points: Plenty combustibles, crowded residents, non-standard electricity use, student smoking risks.

Solutions: Intelligent smoke detectors with audible-visual alarms & phone alerts for dorm managers; smart electricity monitoring to avoid electrical fires; manual alarm points, audible-visual alarms and intelligent evacuation lights.

Canteens

Pain Points: Combustible gas risks, tough maintenance and complex kitchen environment.

Solutions: Intelligent gas detectors with automatic valve cut-off; flame recognition cameras for regional fire monitoring and centralized management.

Centralized Supervision of Fire Facilities in Multiple Buildings

Pain Points: Hard to centrally manage distributed fire equipment.

Solutions: IoT transmission modules to connect fire alarm systems of buildings, enabling unified online monitoring for multi-campus facilities.



Business Outlets

Pain Points: Frequent visitor flow, low fire safety awareness, various electrical devices and high power load.

Solutions: Smart electricity monitoring; smart smoke

Fire Control Rooms

Pain Points: Scattered fire facilities hard to manage remotely; monitoring depends on on-duty staff with inconsistent skills.

Solutions: Remote network monitoring with IoT transmission modules and smart cameras. Realize unified remote equipment management, monitor staff absence and enable real-time remote alarms.



Commercial Premises

Pain Points: Crowded space, complex layout and unauthorized wiring.

Solutions: Intelligent smoke detectors, smart electricity monitoring, manual alarm points, audible-visual alarms and intelligent evacuation lights.

Public Areas

Pain Points: Damaged fire hydrants, lost or shifted manhole covers.

Solutions: Intelligent liquid level gauges, pressure gauges, fire hydrant monitors and intelligent manhole covers.

Laboratories

Pain Points: Concentrated flammable and hazardous chemicals.

Solutions: Intelligent smoke detectors, manual alarm points, audible-visual alarms and intelligent evacuation lights.

Smart Fire Safety Solution for the Financial Industry

Power Distribution Rooms

Pain Points: Inadequate fire facilities, massive power equipment and complicated wiring.

Solutions: Smart electricity monitoring & smart smoke detectors.

ATM Rooms

Pain Points: Heavy pedestrian flow and poor fire safety awareness.

Solutions: Smart smoke detectors, wireless manual alarm points and audible-visual alarms for on-site emergency triggering.

Public Areas

Pain Points: Broken / low-pressure / dry outdoor fire hydrants; insufficient pipe pressure and empty fire tanks obstruct rescue.

Solutions: Intelligent hydrant pressure monitors; remote wireless pressure & liquid level monitors for fire pipe networks and water tanks.

Integration of safety and consumption

Safety & Fire Protection Philosophy

Transform from Traditional Fire Protection to Modern Fire Protection.

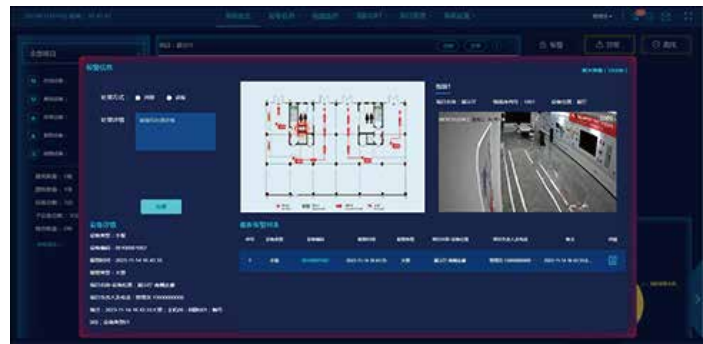
Build a unified safety & fire protection platform with visualized, real-time, intelligent and differentiated precise supervision.

Construct six prevention & control systems, integrate five comprehensive modules, expand N fire safety applications, strengthen system perception capacity and mitigate risks and damages.



Functional Features

- 1.Fire alarm system monitoring for centralized fire management and remote surveillance
- 2.Integration of safety and fire service systems to support all-time accessibility and full-scenario visibility
- 3.Eliminate information silos to realize integrated safety-fire management and emergency linkage



System Advantages

In line with the "Four Rapid Response" disposal specifications of the Fire and Emergency Rescue Corps, fire conditions, alarm messages, video linkage and location information can be confirmed within 5 seconds for rapid verification. The integrated safety & fire protection platform is compatible with all smart fire safety devices and supports intelligent maintenance.

Six Construction Tasks for Integrated Safety & Fire Protection



- 1. Integrate fire control and security control rooms
- 2. Realize linkage of fire alarm signals and video surveillance
- 3. Give full play to graphic display devices in fire control rooms
- 4. Carry out equipment & facility inspection and data comparison
- 5. Optimize internal scheduling mechanism
- 6. Enhance external linkage

Integrated Safety & Fire Protection



User Information Transmission Device

WANLIN- 921

As the core front-end device of the Urban Fire Remote Monitoring System, it collects and transmits alarm signals and equipment status information from local fire alarm control panels.

Equipped with remote control, remote transmission and remote monitoring capabilities, it connects to the cloud platform for real-time status viewing of fire alarm hosts. When a real fire breaks out, it can remotely trigger automatic fire extinguishing devices and alert fire rescue teams to reduce property losses.



Product Functional Parameters

Main Power: AC 220V (+10%, -15%), 50Hz

Backup Power: DC12V/2.8AH (Built-in)

Power Consumption: ≤10W

Backup Power Duration: ≥8h

Uplink Interfaces to Monitoring Center: 10/100M

Wired Ethernet, 2G/3G/4G Mobile Network

Communication Protocol: TCP/UDP (Transport Layer),

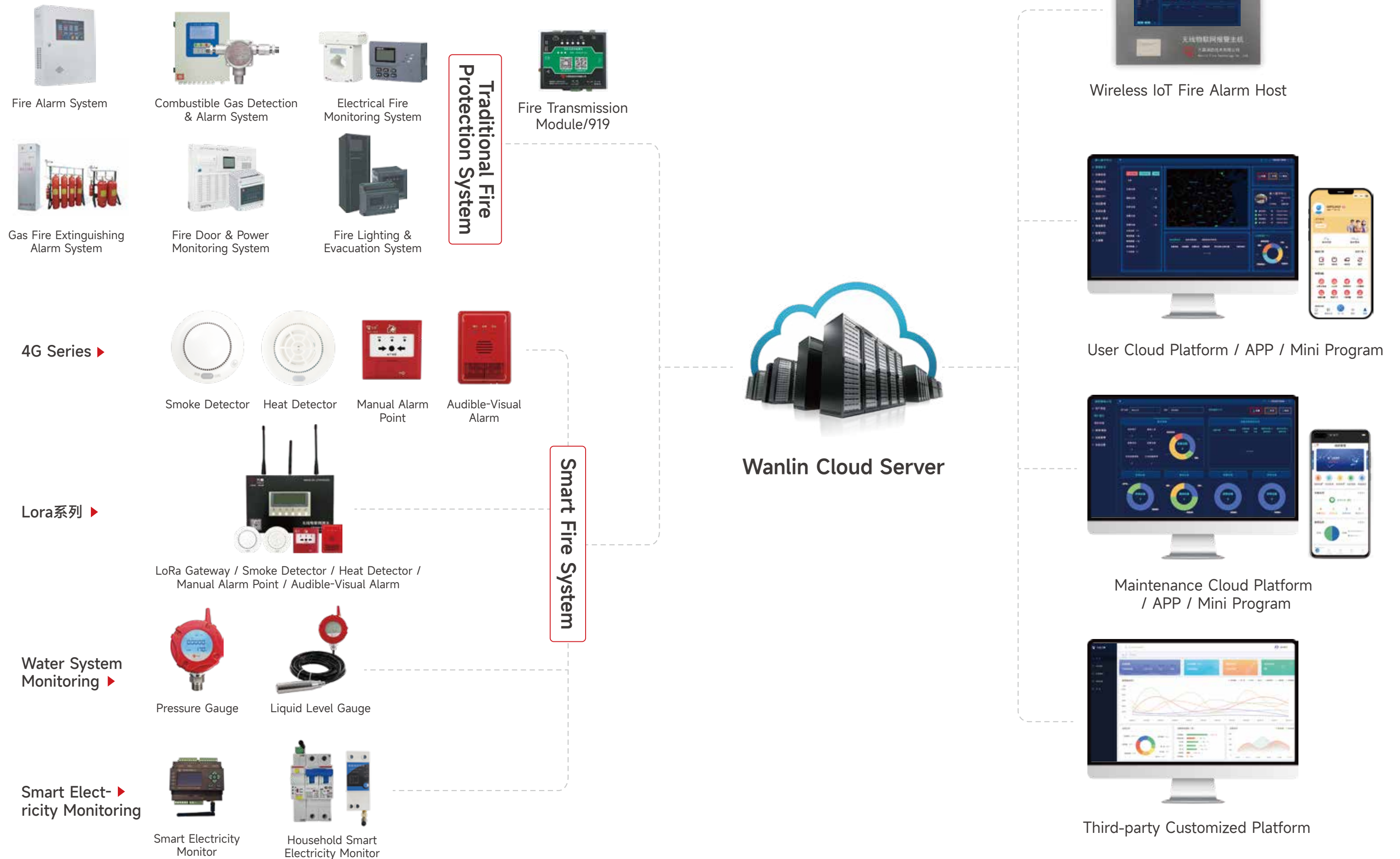
GB26875.3 (Application Layer)

Downlink Interface to Fire Alarm Panel: Optically Isolated

RS485, Max. 1000m; 3 channels

Digital Input: Passive Dry Contact, 4 channels

Topology Diagram of Smart Fire Safety Solution for Key Units





Wanlin Third-Party Smart Fire Cloud Platform Services

Compliance & Interconnection

Meet regional IoT standards; seamlessly connect emergency and community supervision platforms.



Dual Income for Partners

Hardware sales plus platform subscription: one-time profit and sustainable recurring revenue.

Hierarchical Control

Role-based targeted alarm notification, simplifying property safety management.



Easy Market Expansion

Headquarters undertakes all platform O&M and upgrades. Partners focus on sales.

Efficient Assessment

Auto-statistics of risks and alarms; one-click export of standard annual reports.



Open & Empowering

Free open APIs to integrate existing property, elderly care management systems.

Platform Custom Operation Solution – Custom Platform Development

The user fire alarm APP real-timely shows on-site fire status. When detectors trigger an alarm, alerts are instantly pushed to clients. Users can view device status, share fire alarms and fault messages with multiple recipients for joint monitoring.



APP



Mini Program



User Platform



Management Platform



Home Safety Platform



API

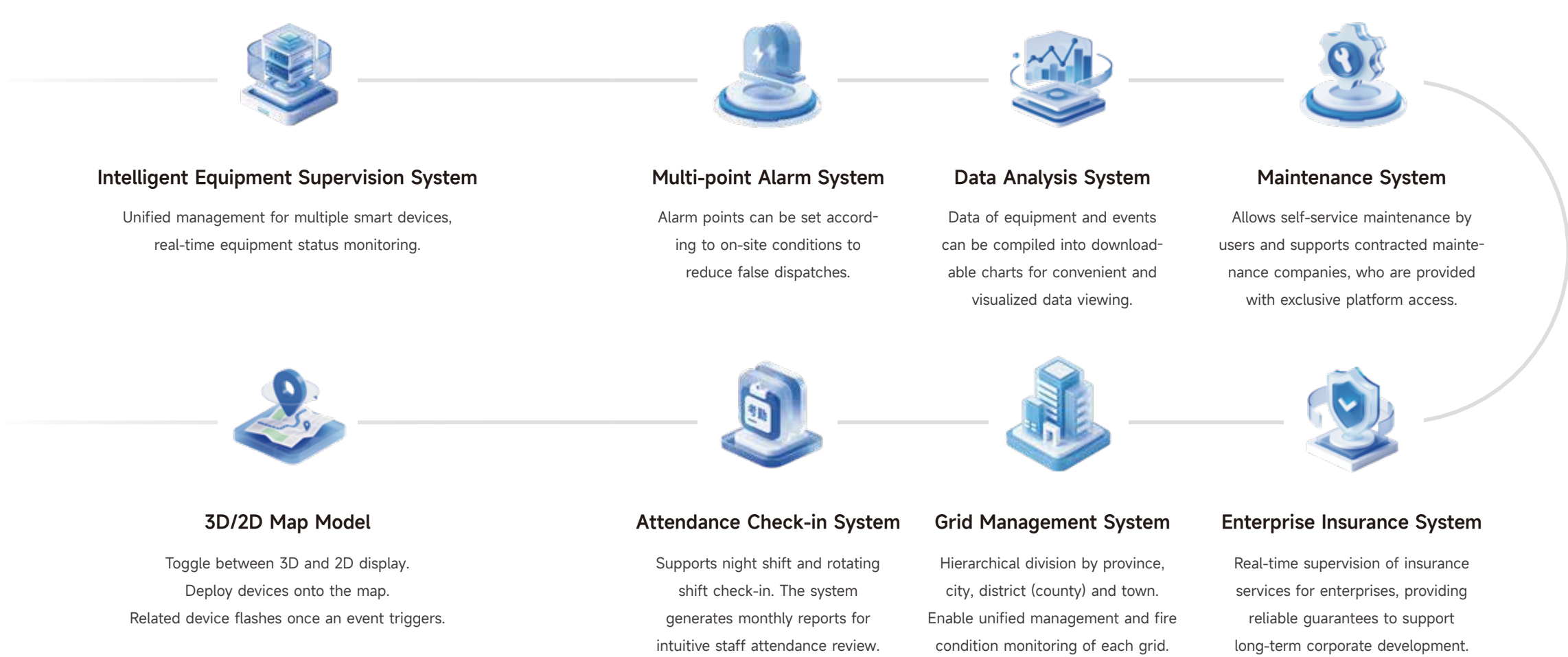


SYSTEM PROFILER

Built upon Wanlin Cloud (Smart Fire Cloud Platform), the Jellyfish IoT Platform focuses on IoT remote fire monitoring and intelligent fire early warning functions. It offers a comprehensive smart fire IoT solution for government decision-making, fire control supervision and social organizations' safety responsibility implementation.

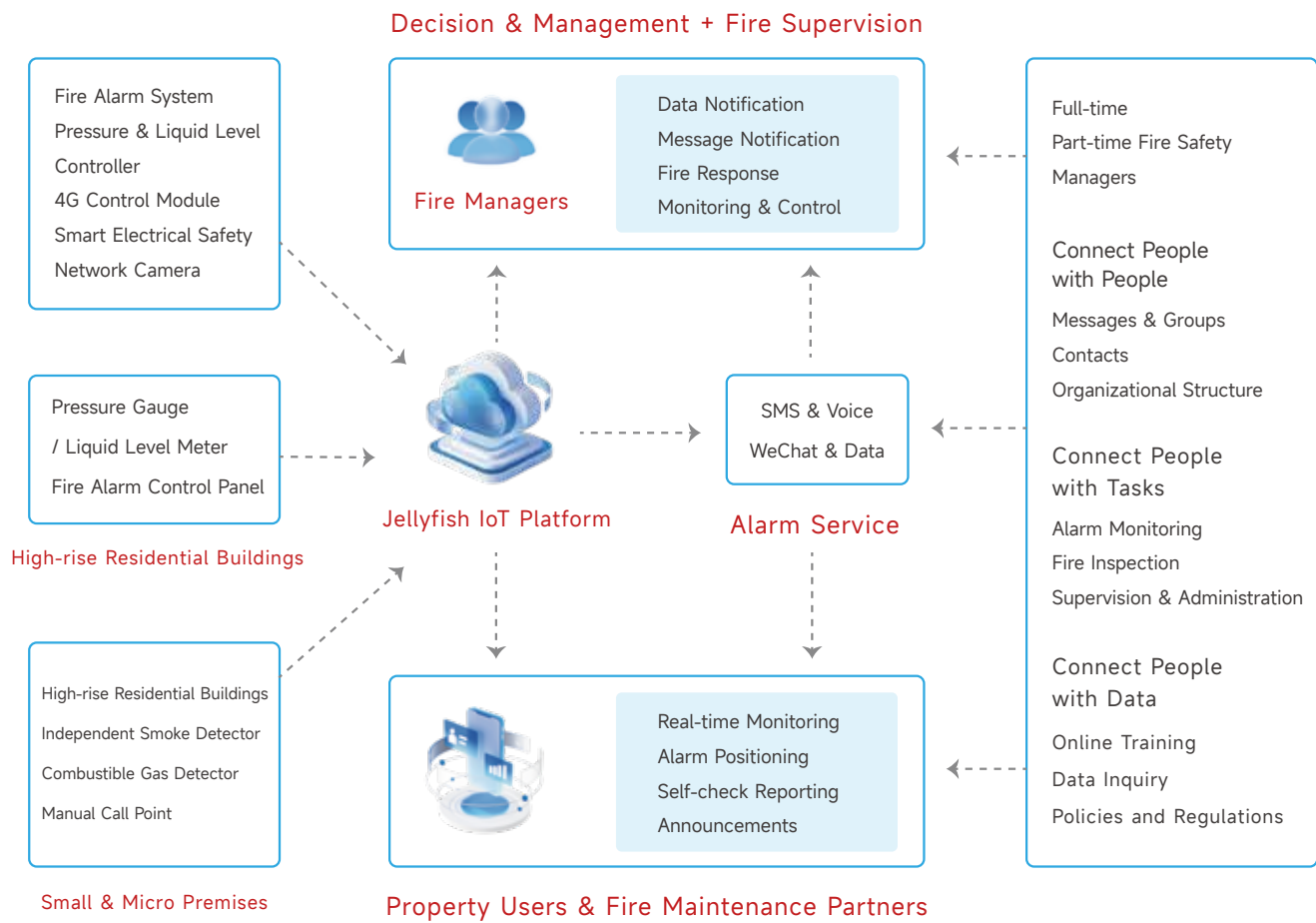
As an important part of the smart fire safety monitoring system, it combines IoT, cloud computing and big data with fire protection, promoting the intelligent upgrading of fire equipment. Intelligent fire safety products feature systematic fire risk solutions.

According to varied users and management demands, the platform supports intelligent equipment monitoring, multi-point alarm, 2D/3D map visualization, maintenance management, data analysis, attendance, work order dispatching, maintenance firm management, grid management and insurance modules. Accessible via web browsers and mobile APPs, it realizes dynamic fire safety monitoring, boosting fire management standards of social institutions and fire law enforcement efficiency.



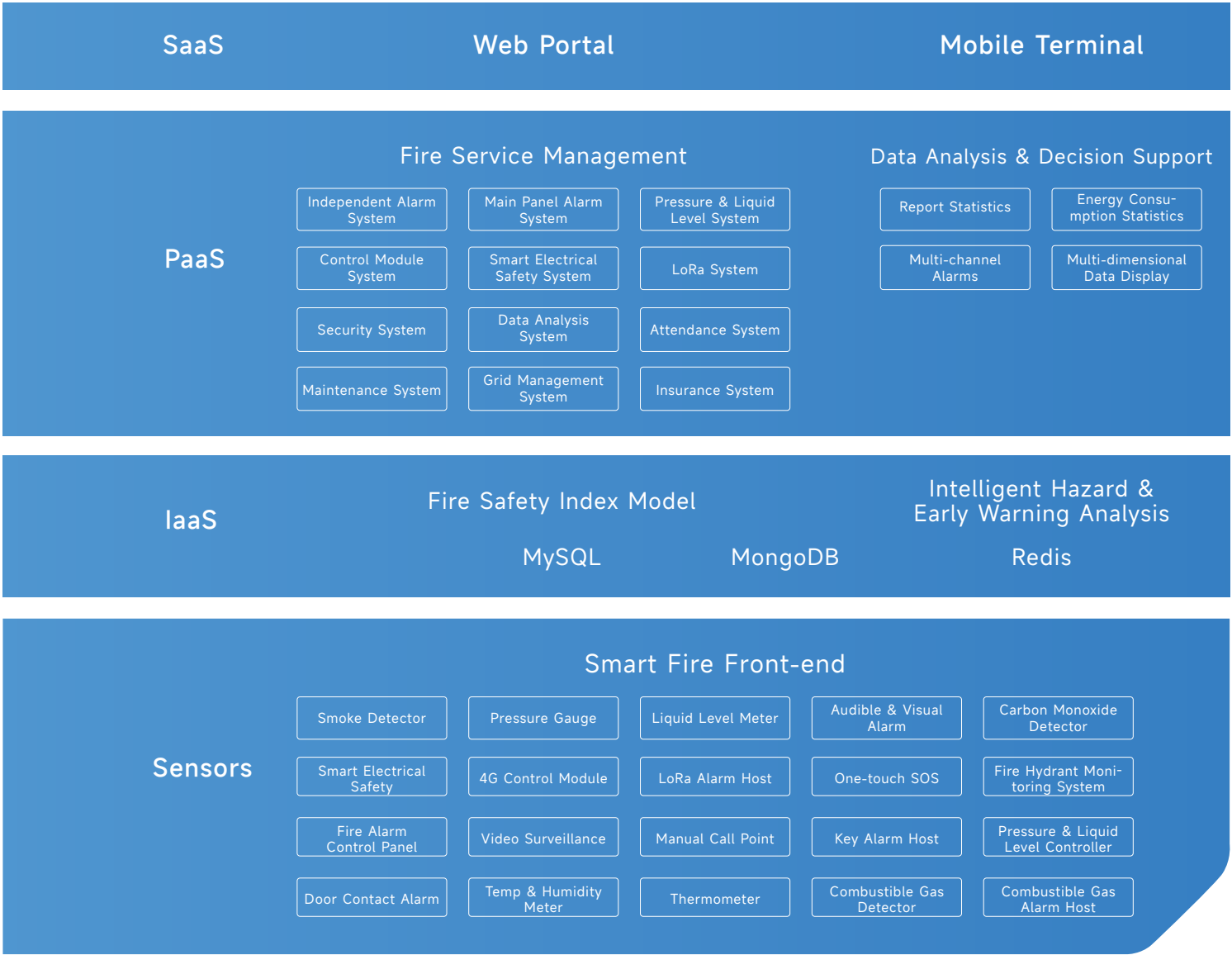
SYSTEM PROFILER

Based on the existing automatic fire alarm system, users can add IoT front-end devices such as smart electric safety detectors, fire pressure gauges, liquid level meters, network cameras and independent smoke detectors. All data is uploaded via wired or wireless network to the smart fire cloud platform for unified analysis and processing.



We provide tailored smart fire IoT solutions for all types and sizes of premises, including urban remote fire monitoring systems, as well as intelligent fire early warning systems for high-rise buildings and small micro venues.

The Jellyfish IoT Platform employs IoT technologies of sensing, transmission, cognition and application. Combined with wireless sensing, cloud computing and big data, it uses the Internet, wireless and private networks to achieve intelligent perception, identification, positioning and tracking of fire facilities, devices and staff. It enables real-time, dynamic, interactive and integrated fire data collection, transmission and processing. Supported by information processing, data mining and situation analysis, the platform aids fire supervision and emergency rescue, improves social fire safety management and enhances firefighting capacity.



The platform realizes fire alarm submission and disposal, and generates multi-dimensional reports covering alarm location, time and frequency. It reconstructs fire scene data including ignition point position, call logs and contact confirmation records to provide scientific basis for fire investigation. In addition, it supports inquiry and visualization of installation positions and status of gateways and detectors.

Appendix & Parameters

Family Fire & Safety Package Series



AI Smart IoT Gateway

Power Supply: DC 5V
Backup Battery: 3.7V, 500mAh Rechargeable Battery
Standby Power Consumption: <55mA
Alarm Output: <500mA
Wireless Frequency: 433MHz
Network: 4G
Operating Temperature: 0~55°C
Sound Pressure Level: 100dB



Independent Photoelectric Smoke and Fire Detector Alarm

Sound Pressure Level: >85dB(A) (3 meters straight ahead)
Standard Implemented: GB20517-2006
Power Supply: DC 3V (two 1.5V batteries)
Relative Humidity: ≤95%RH (40°C±2°C)
Operating Temperature: -10°C ~ +50°C
Weight: Approx. 150g (including batteries)
Alarm Current: ≤45mA
Standby Current: ≤7μA
Output Type: Audible & Visual Alarm
Battery Service Life: 3 years



Intelligent Door Contact Sensor

Relative Humidity: ≤95%RH (40°C, non-condensing)
Power Supply: Battery Powered
Operating Voltage: DC 3V
Operating Temperature: -20°C ~ +60°C
Battery Life: 1 year on standby
Communication Mode: 4G



Household Combustible Gas Detector

Operating Voltage: AC220V/50Hz ±15%
Power Consumption: ≤3W under normal monitoring, ≤4W in alarm state
Alarm Sound Level: >80dB(A) (1 meter straight ahead)
Dimensions: 111×66×36 (mm)
Housing Material & Color: Flame-retardant ABS, Ivory White
Operating Environment: Temperature -10°C ~ +50°C, relative humidity ≤90%, non-condensing
Sensor Service Life: 3 years
Detected Gas: Liquefied Natural Gas (LNG)
Alarm Threshold Setting: 7%LEL



Kitchen Alert Indicator

Operating Voltage: DC 5V 1A (external power supply)
Power Port: Type-C
Backup Battery Duration: >2 hours
Networking Mode: 4G + 433MHz
Operating Temperature: -10°C ~ 55°C
Standby Current: ≤50mA
Alarm Current: ≤350mA
Alarm Volume: 70dB
LCD Display: Segment Display
Ingress Protection: IP43



Infrared Human Motion Detector Alarm

Adjustable Angle: 360° vertically and 360° horizontally
Wireless Connection: 4G wireless communication
Product Dimensions: 71×81×44 mm
Detection Distance: Approx. 8 m



Camera

Day & Night Mode: Automatic switching between color and monochrome
Effective Pixels: 1920(H) × 1080(V)
Operating Temperature: -10°C ~ 55°C
Video Format: Encrypted H.264
Storage: TF Card (Max. 256GB)
Power Supply: DC 5V/1A
Power Interface: USB Type-C
Max. Number of Sub-devices: 32



■ Doorbell

Battery Specification: CR2032
 Wireless Connection: Wireless Communication
 Product Dimensions: 50×50×18 mm
 Communication Frequency: 433MHz
 Standby Duration: Approx. 1 year
 Model: WANLIN-202



■ Wireless Water Leak Detector

Battery Specification: CR2032
 Standby Power Consumption: ≤5μA
 Operating Temperature: -10°C ~ +55°C
 Wireless Connection: Wireless Communication
 Communication Frequency: 433MHz

Standby Duration: Approx. 5.5 years
 Operating Humidity: 0~100%RH
 Battery Check Interval: Every 4.3 minutes
 Product Dimensions: 50×50×18 mm
 Model: WANLIN-203



■ Wireless SOS Emergency Call Button

Power Supply: DC 3V (1 piece CR2050 coin cell battery)
 Transmission Frequency: 433MHz
 Standby Power Consumption: 0.1μA
 Communication Frequency: 433MHz

Transmission Power: 12.5mA
 Battery Service Life: 3 years
 Product Dimensions: 56×56×15.5 mm
 Model: WANLIN-201



■ Smart Charging Safety Socket

Model: WANLIN-001
 Rated Frequency: 50Hz
 Rated Voltage: 250V
 Max Current: 10A
 Max. Power: 2500W

Four Core Functions:
 Auto Power-off
 Overload Protection
 Safety Shutter
 High Temperature Flame Retardant

Household Smart Electrical Safety Series



■ WANLIN-711

This product is an IoT digital intelligent controller switch. It detects circuit abnormalities and automatically cuts off power in case of overcurrent, electric leakage, over-temperature and overvoltage. Once power is disconnected, alarm messages will be pushed to multiple associated accounts in real time to facilitate timely measures for loss prevention. Notifications can be delivered via calls, SMS, WeChat, PC platform and mobile APP.

Product Name: 4G Smart Miniature Circuit Breaker	Model: WANLIN-711
Operating Temperature: -40°C ~ +85°C	Cloud Platform: Jellyfish IoT
Electrical Endurance: >10,000 operations	Communication Mode: 4G
Mechanical Endurance: >20,000 operations	Operating Humidity: ≤75%RH
Rated Impulse Withstand Voltage: 6kV	Ingress Protection: IP20
Control Functions: Remote / Local Push-button Control	
Alarm Mode: Automatic circuit cutoff, remote alarm notification (Phone Call, SMS, WeChat, PC Platform, Mobile APP)	
Mounting Type: TH35-7.5 DIN Rail	



■ WANLIN-710

This product is an IoT digital intelligent controller switch. It detects circuit abnormalities and automatically cuts off power upon overcurrent, overtemperature and overvoltage. After power cutoff, alarm messages are pushed to multiple associated accounts in real time to enable timely countermeasures and reduce losses. Notifications can be sent via phone calls, SMS, WeChat, PC platform and mobile APP.

Operating Humidity: ≤75%RH	Product Name: 4G Smart MCB
Electrical Endurance: >10,000 operations	Model: WANLIN-710
Control Functions: Remote / Local Push-button Control	Operating Temperature: -25°C ~ +70°C
Ingress Protection: IP20	Cloud Platform: Jellyfish IoT
Temperature Monitoring: 80°C (configurable alarm temperature and trip protection temperature), Accuracy: ±1°C	Communication Mode: 4G

Intelligent fire alarm system

WANLIN-868D Series

Wanlin Intelligent Fire Alarm System supports 2 wired loops and 2 wireless loops. Wired loops adopt a two-wire bus structure, while wireless loops apply LoRa 470MHz communication. Construction can flexibly adopt wired or wireless sensors according to on-site conditions. Integrating dual advantages of wired and wireless fire alarm systems, it supports mixed loop programming and linkage. The system realizes wireless alarm triggering and wired linkage output via two-wire bus I/O modules, greatly reducing cabling workload while ensuring stable and reliable linkage performance.

Built with advanced smart fire IoT technologies, the main panel adopts 4G remote transmission. It supports remote alarm & fault notification, remote start-stop and remote programming via the cloud monitoring platform.

Optimized for construction, commissioning and daily operation, the system effectively compensates for the deficiencies of traditional fire alarm systems and meets upgraded modern fire safety requirements.



Product Functional Parameters

Rated Operating Voltage: AC220V 50Hz

Backup Power Supply: 3.7V, 2600mAh

Quiescent Current: $\leq 130\text{mA}$

Display Mode: 192×64 Dot Matrix LCD

Operating Temperature: $0^{\circ}\text{C} \sim +40^{\circ}\text{C}$

Relative Humidity: $\leq 95\%\text{RH}$ ($40^{\circ}\text{C} \pm 2^{\circ}\text{C}$)

Wiring & Networking

Networking Mode: 4G Cellular Network (SMT SIM Card)

Wireless Loop Connection: Control panel works with
wireless gateway

Communication Frequency: LoRa 470MHz

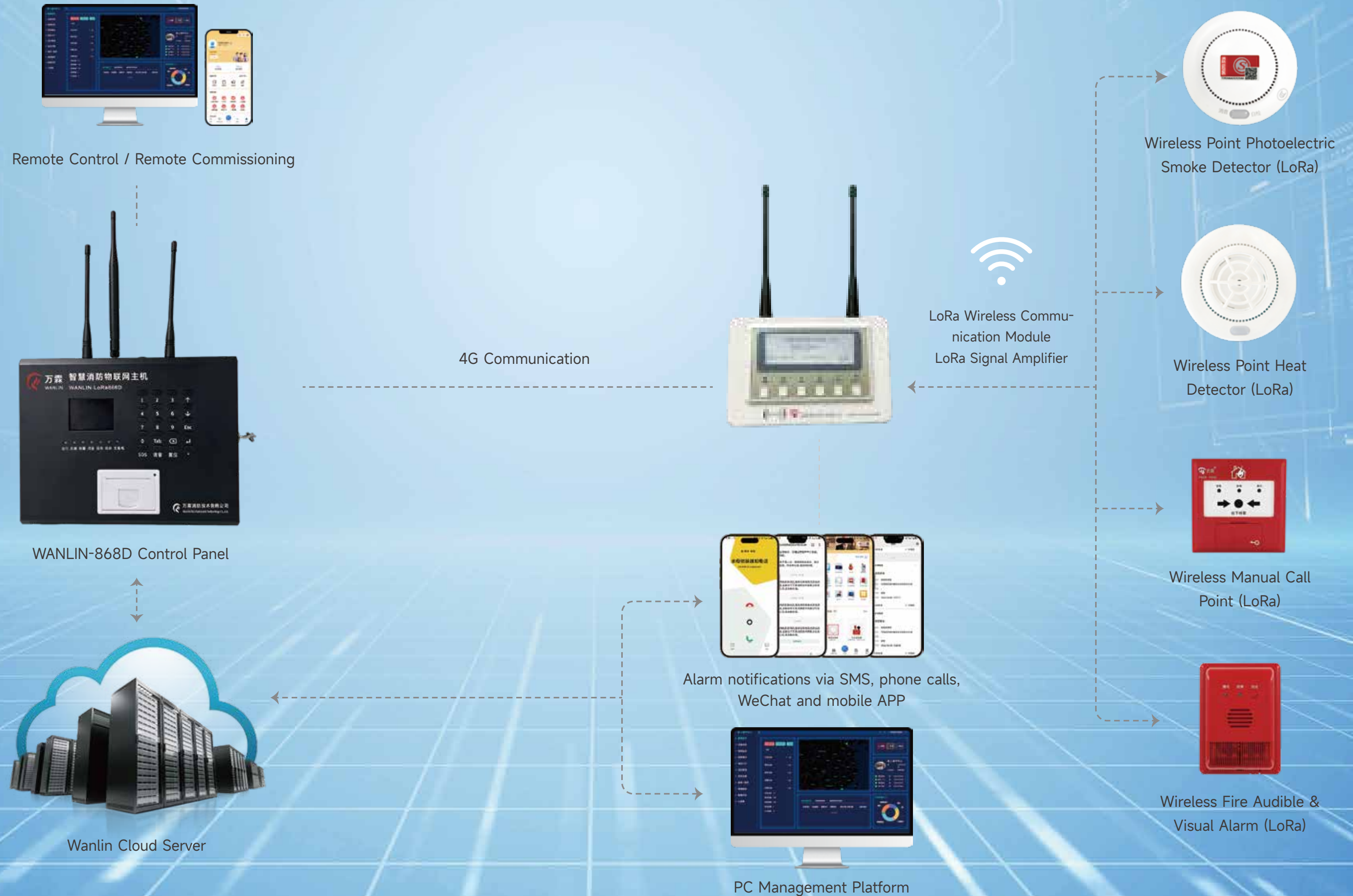
Overall Dimensions: 235×145×55 mm

Address Capacity: 200 devices per wireless loop

Structure Type: Wall-mounted

WANLIN-868D Series

Note: 1 gateway supports max. 200 wired & wireless points



WANLIN-868D Series – Wireless Terminals



WANLIN-867 LoRa Wireless Communication Module



Implementation Standard	XF1151 - 2014
Rated Operating Voltage	DC24V
Power Supply Mode	24V Power Adapter
Alarm Current	≤150mA
Standby Current	≤50mA

Operating Temperature	0°C ~ +55°C Relative Humidity: ≤95% (40°C±2°C)
Backup Power Supply	18650 Rechargeable Lithium Battery
Overall Dimensions	178mm*118mm*32mm

WANLIN-869 Signal Amplifier (LoRa)



Operating Voltage	DC 24V
Operating Communication Frequency	470 MHz
Standby Current	≤50 mA
Alarm Current	≤150 mA

Operating Environment	-10°C ~ +55°C; Humidity ≤95%RH (Non-condensing)
Overall Dimensions	178mm*118mm*32mm
Weight	Approx. 300g

WANLIN-310 Wireless Point Photoelectric Smoke Detector (LoRa)



Implementation Standard	XF1151 - 2014 GB4715 - 2005
Rated Operating Voltage	DC3V
Standby Current	≤6uA
Alarm Current	≤100mA

Operating Temperature	-10°C ~ +55°C Relative Humidity: ≤95%RH (40°C±2°C)
Battery Capacity	2400mAh
Overall Dimensions	100mm (Diameter) 48mm (Thickness)

WANLIN-340 Wireless Point-type Heat Detector (LoRa)



Operating Temperature	Lower: 54°C; Upper: 65°C
Rated Operating Voltage	DC3V
Battery Capacity	2500mAh
Alarm Current	≤100mA

Operating Temperature	-10°C ~ +55°C Relative Humidity: ≤95%RH(40°C±2°C)
Sound Pressure Level	45dB-75dB
Standby Current	≤6uA
Overall Dimensions	100mm (Diameter) 48mm (Thickness)

WANLIN-222 Wireless Manual Call Point (LoRa)



Rated Operating Voltage	DC3V
Standby Current	≤6uA
Alarm Current	≤20mA
Battery Capacity	2500mAh

Operating Temperature	-10°C ~ +55°C Relative Humidity: ≤95%RH (40°C±2°C)
Overall Dimensions	85mm*85mm*45mm

WANLIN-656 Wireless Audible & Visual Alarm (LoRa)



Rated Operating Voltage	DC24V
Standby Current	≤6uA
Alarm Current	≤100mA
Flash Frequency	1.0Hz ~ 2.0Hz
Application Location	Indoor Type
Dimensions	118*86*50mm

Operating Temperature	-10°C ~ +55°C Relative Humidity: ≤95%RH(40°C±2°C)
Alarm Sound	One round of alarm tone, followed by two voice alerts, cyclically played
Sound Pressure Level	75dB ~ 110dB (A-weighted)
Backup Power Supply	Single 18650 rechargeable lithium battery

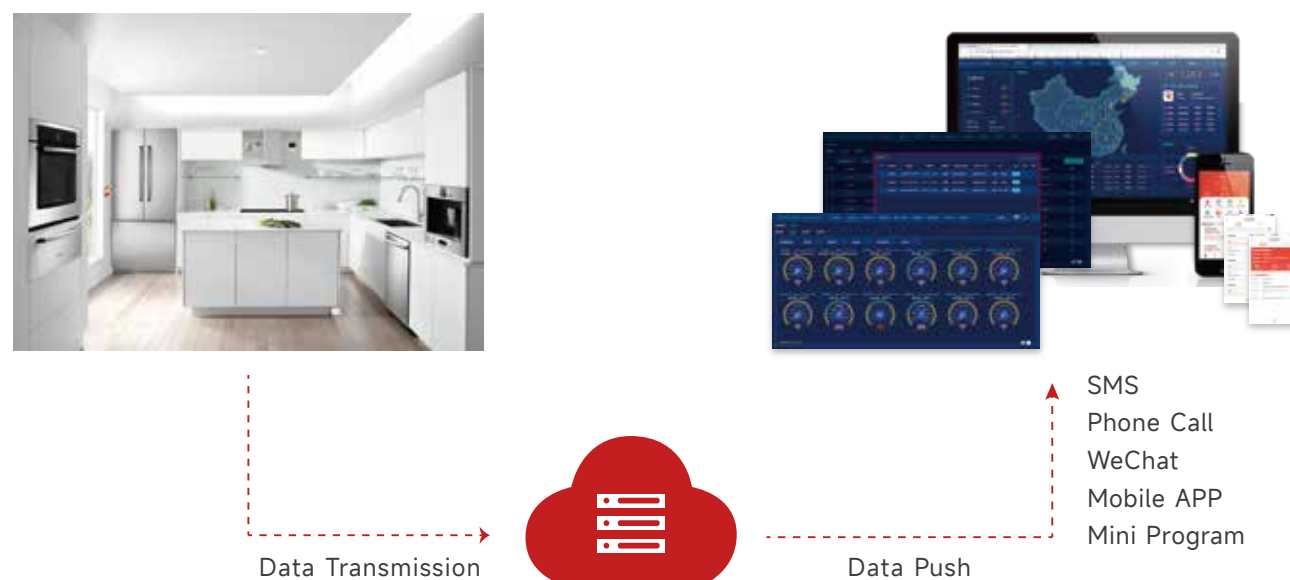
Independent Alarm System



When the independent alarm activates, users can mute and reset alarms locally, via PC or APP (Mini Program). The platform sends alerts through SMS, calls and WeChat, with alarm sounds on PC and APP terminals.

Alarm data can be automatically compiled into statistical forms. Readings of temperature, temperature & humidity sensors can be checked in real time on dashboards.

Smart independent alarms realize multi-user, multi-level linked remote alarms, ideal for families and small premises.



4G Series Products

4G Smoke Fire Detector

WANLIN-307/309



1. Built-in infrared human detection function for real-time occupancy monitoring. It helps supervise illegal accommodation in small premises. Via 4G IoT transmission, early warning ensures personnel safety.
2. Infrared security detection supports effective monitoring of unauthorized intrusion. Early warnings are quickly pushed to bound contacts via the 4G IoT module to detect abnormal activities and prevent illegal entry.
3. Integrated 4G transmission module and high-capacity lithium manganese battery (2400mAh) with long service life (3 years). Features low power consumption, no wiring required, automatic self-inspection, precise positioning, on-site audible alarm, mobile APP alert and AI voice call notification. It realizes 24-hour precise fire safety prevention and control.

Product Functions:

1. Real-time monitoring of smoke concentration in the installation environment. In case of fire, the detector emits local alarm sound and transmits alarm data via 4G IoT to bound users' mobile phones.
2. Alarm notification methods: phone call, SMS, WeChat, mobile APP, PC platform, etc.
3. Upon alarm, the device uploads smoke concentration, battery level, signal strength, ambient temperature and smoke concentration record of the previous 5 minutes simultaneously.
4. Support tamper alarm and tamper recovery notification.
5. Equipped with low-battery alarm, remote silencing and remote sensitivity adjustment functions.
6. The 4G module automatically restarts every 16 days to ensure stable network connection.

Product Specifications:

Communication Mode: 4G

Rated Operating Voltage: DC 3V

Sound Pressure Level: >80dB(A)
(3 meters directly in front)

Quiescent Current: $\leq 6\mu A$

Alarm Current: $\leq 100mA$

Battery Capacity: 2400mAh

Operating Temperature: $-10^{\circ}C \sim +50^{\circ}C$

Relative Humidity: $\leq 95\%RH$ ($40^{\circ}C \pm 2^{\circ}C$)

Compliance Standard: GB 20517-2006

Weight: Approx. 140g (including battery)

Recommended Installation Locations

Bedrooms

Rooms for sleeping, including children's and the elderly's bedrooms



Staircases

Upper sections of floors with bedrooms



Living Rooms

Living areas other than bedrooms



Note: When windows are open, airflow may disperse smoke, which could prevent the detector from sensing smoke. If installed in kitchens, cooking fumes may trigger false fire alarms.

Prohibited Installation Locations

1. Areas where smoke normally accumulates (e.g. kitchens, smoking rooms)
2. Areas with heavy dust, water mist, oil mist or corrosive gas
3. Areas with relative humidity over 95%RH
4. Areas where ventilation speed exceeds 5 m/s

4G Heat Detector Alarm

WANLIN-340



This standalone heat detector is manufactured with a specially structured heat sensor, reliable MCU and SMT surface-mount technology. It features high sensitivity, stable performance, low power consumption, attractive appearance, durability and easy operation.

Product Functional Parameters

Communication Mode: 4G
Sound Pressure Level: 45~75dB(A) (3 meters directly in front)
Rated Operating Voltage: DC 3V
Quiescent Current: $\leq 6\mu\text{A}$
Alarm Current: $\leq 100\text{mA}$
Battery Capacity: 2400mAh
Operating Temperature: $0^{\circ}\text{C} \sim +50^{\circ}\text{C}$
Relative Humidity: $\leq 95\%\text{RH}$ ($40^{\circ}\text{C} \pm 2^{\circ}\text{C}$)
Compliance Standard: GB 30122-2013
Weight: Approx. 140g (including battery)

Suitable Application Sites

Areas with relative humidity frequently above 95%RH
Locations where smokeless fires may occur
Environments with heavy dust
Smoking rooms and other areas where smoke or steam normally accumulates
Kitchens, boiler rooms, generator rooms, drying workshops and other sites unsuitable for smoke fire detectors

4G Manual Call Point

WANLIN-222



Network Standard: 4G
Power Consumption: Sleep standby current $< 5\mu\text{A}$, average data transmission current $< 60\text{mA}$
Uploaded Information: Battery voltage, temperature, SIM card number, signal strength
Power Supply: 3V 17505 Lithium Battery
Alarm Types: Fire alarm, alarm reset, low voltage alarm
Compliance Standard: GB 19880-2005
Operating Temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
Operating Humidity: $\leq 95\%\text{RH}$ ($40^{\circ}\text{C} \pm 2^{\circ}\text{C}$)
Product Weight: 80g

4G Audible & Visual Alarm

WANLIN-656



Compliance Standard: GB 26851-2011
Rated Operating Voltage: DC 24V
Standby Current: $< 500\mu\text{A}$
Alarm Current: $< 5\text{mA}$
Sound Pressure Level: 75dB ~ 110dB (A-weighted)
Flash Frequency: 1.0Hz ~ 2.0Hz

Address Range: 1 ~ 192
Tone Change Cycle: 2.0s ~ 5.0s
Application Location: Indoor Type ($40^{\circ}\text{C} \pm 2^{\circ}\text{C}$)
Operating Temperature: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$; Relative Humidity $\leq 95\%\text{RH}$

One-Touch Alarm Evacuation Device

4GBYJSG

The fire one-touch alarm evacuation device is fire early warning equipment featuring simple operation and rapid response. Adopting wireless transmission technology, it requires no wiring and can be conveniently installed in any area under protection. In case of fire, the alarm will immediately emit high-decibel audible and visual alerts, and send alarm information to the fire department via wireless signal simultaneously.



Product Specifications

Operating Voltage: DC12V (with backup power)
Backup Power Duration: > 2 hours
Standby Current: $\leq 20\text{mA}$
Alarm Current: $\leq 500\text{mA}$

Alarm Trigger: Alarm message push
Ingress Protection: IP40
Communication Mode: 4G Cat.1
Alarm Volume: 130dB

4G Gas Series Product Introduction

Combustible Gas Detector (Explosion-proof) WANLIN-380



Detectable Gases: Methane, Propane

Explosion-proof Grade: T6

Rated Operating Voltage: AC220V 50Hz

Implementation Standard: GB15322.1-2019

Sensor Service Life: 3 years

Alarm Mode: Audible & Visual Alarm, Remote Alarm Notification
(Phone Call, SMS, WeChat, PC Platform, Mobile APP)

Indicating Error: $\pm 3\%$ FS

Measurement Range: 3%LEL ~ 100%LEL

Operating Ambient Temperature: $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$

Sensor Detection Principle: Catalytic Bead

Alarm Threshold: Low Alarm 20%LEL, High

Household Combustible Gas Detector WANLIN-365



This high-stability combustible gas detector is designed to detect combustible gas leakage and prevent hazards caused by gas leaks. Equipped with a highly stable catalytic bead sensor, the detector features excellent stability and low sensitivity drift. It supports alarm notifications via phone calls, SMS, WeChat, PC platform and mobile APP. Upon alarm trigger, it can automatically link mechanical arms or solenoid valves to shut off the gas valve.

Product Specifications

Implementation Standard: GB15322.2-2019

Operating Voltage: AC220V 50Hz

Operating Temperature: $-10^{\circ}\text{C} \sim +55\pm 2^{\circ}\text{C}$

Operating Humidity: $\leq 95\%\text{RH}$ ($40^{\circ}\text{C}+2^{\circ}\text{C}$)

Alarm Concentration: 10%LEL

Sensor Detection Principle: Catalytic Bead

Sensor Service Life: 3 years

Indicator Light Description:

AC power supply – Blue LED;

Gas alarm – Steady red LED;

Network connection – Steady green LED;

Sensor fault – Steady yellow LED

Overall Dimension: 1207536mm

Gas-linked Mechanical Arm / Solenoid Valve

Our new standard household and explosion-proof combustible gas detectors support linkage with mechanical arms and solenoid valves. The valve will shut off automatically upon detector alarm to prevent combustible gas leakage.



Mechanical Arm



Solenoid Valve

4G Water System Introduction

Digital Pressure Gauge WANLIN-770



This online pressure gauge adopts MCU for data acquisition and remote transmission. Equipped with high-grade sensor chips, it boasts high precision, anti-corrosion, anti-vibration performance and low temperature drift. Low-power design with lithium battery supply eliminates external power wiring for easy installation.

Product Specifications

Pressure Type: Gauge Pressure

Accuracy: Optional 0.25%F.S. or 0.5%F.S.

Display: Segment LCD, 5-digit main display

Product Weight: 440g

Operating Temperature: $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$

Ingress Protection: IP67

Communication: 4G Cat1, LoRaWAN, NB-IoT

Antenna: Built-in

Sampling Interval: 2 times per minute

Transmission Interval: Configurable (5, 10, 30, 60, 360, 720, 1440 minutes)

Upload Information: Pressure / Temperature value / Alarm status /

Upper pressure alarm limit / Lower pressure alarm limit / Pressure fluctuation threshold / Transmission interval / SIM card number /

Battery level / Signal strength

Power Supply: 3.6V DC, 13Ah

Protocol: CoAP

Alarm Events: Exceed upper alarm limit, below lower alarm limit, low battery, excessive pressure fluctuation

Wireless Remote Alarm Digital Level Gauge WANLIN-780



This MCU liquid level gauge supports on-site measurement and remote data transmission. Featuring high precision, anti-corrosion and anti-vibration performance, it adopts low-power lithium battery power supply without external wiring for easy installation.

Product Specifications

Pressure Type: Gauge Pressure

Measuring Range: 0-5000mm H₂O, 0-10000mm H₂O

Accuracy: Optional 0.25%F.S. or 0.5%F.S.

Display: Segment LCD, 5-digit main display

Communication: 4G Cat1, LoRaWAN, NB-IoT

Antenna: Built-in

Battery Service Life: 5 years (Data transmission once per hour, CSQ ≥ 12)

Power Consumption: Standby current $\leq 35\mu\text{A}$, Average transmission current $\leq 60\text{mA}$

Product Weight: 960g

Sampling Interval: 2 times per minute

Transmission Interval: Configurable (5, 10, 30, 60, 360, 720, 1440 minutes)

Upload Data: Pressure value, temperature value, alarm status, upper pressure alarm limit, lower pressure alarm limit, pressure fluctuation threshold, transmission interval, battery level, signal strength

Power Supply: 3.6V DC, 13Ah

Protocol: CoAP

Alarm Triggers: Exceed upper alarm limit, below lower alarm limit, low battery, excessive pressure fluctuation

Wireless IoT Fire Alarm Controller (Touch Screen Version)

WANLIN-860

15.6-inch capacitive touch all-in-one unit, powered by AC220V/DC12V with automatic main/backup power switchover. It supports wired Ethernet, 4G and Wi-Fi multi-mode network access for enhanced performance. Built on embedded Android OS, the fully enclosed controller features compact size, fast response and high reliability, comparable in dimensions to a regular monitor. Its aluminum alloy & metal composite enclosure delivers slim aesthetics and effective heat dissipation. Scheduled system maintenance and remote firmware upgrade ensure stable operation.

Upon any on-site device alarm, the controller triggers audible alert and pops up an alarm window on the current interface for operators to view and handle alarms promptly.

It wirelessly connects to fire alarm panels, electrical fire monitoring hosts and power monitoring hosts of any brand to synchronize alarm data, enabling wiring-free remote networking and linkage.

Centralized management is available for all IoT terminals: NB smoke detectors, NB heat detectors, NB pressure gauges, 4G smart power monitoring devices and more.

The controller supports logic programming. It realizes zone-based alarms and multi-point linkage alarms, and allows remote activation of devices via touch operation. Display modules and functions are customizable to meet on-site monitoring requirements.



User Information Transmission Device

WANLIN-921



Historical Records Storage: Up to 5000 records
Ambient Temperature: 0°C ~ 40°C
Relative Humidity: ≤95%
Mounting Method: Wall-mounted

Main Power Supply: AC 220V (+10%, -15%), 50Hz
Backup Power Supply: Built-in DC12V/2.8Ah
Power Consumption: ≤10W
Continuous Operation Time on Backup Power: ≥8 hours
Communication Interface to Monitoring Center:
Wired Ethernet (10/100M), Mobile Internet (2G/3G/4G)
Communication Protocols with Monitoring Center:
Transport Layer: TCP/UDP
Application Layer: GB26875.3
Communication Interface to Fire Alarm Controller:
RS485 (optically isolated, ≤1000m)
Quantity of RS485 Interfaces: 3
Digital Input Interface: Passive Dry Contact
Quantity of Digital Input Interfaces: 4

Fire Transmission Module

WANLIN-919

Product Specifications

Operating Voltage: DC 5V ~ 36V
Operating Temperature: -25°C ~ 75°C
Storage Temperature: -40°C ~ 125°C
Printer Serial Port: IDC 10-pin, Baud rate: 2400 ~ 230400 bps
CRT Serial Port: DB9-pin, Baud rate: 2400 ~ 230400 bps
Printer Parallel Port: Standard 8-bit parallel port
RS485 Baud Rate: 2400 ~ 230400 bps
Voltage Acquisition Input Range: 0 ~ 5V
Current Acquisition Input Range: 4 ~ 20mA
Data Cache: 8 MByte (4 KByte per packet)



Control Module Introduction

4G Input and Output Module

WANLIN-602

This 4G-enabled I/O module operates similarly to bus-type I/O modules. It provides 24V output and digital output with selectable level or pulse output, as well as signal feedback and feedback circuit fault detection.

Users can switch between automatic and manual modes via mobile APP or PC platform. It supports automatic linkage with other Wanlin smart fire devices. Remote start/stop control is available under manual mode.

Features

Communication: 4G

Operating Voltage: DC 24V, 2A

Output: 1 channel 24V, 1 channel digital output (Level / Pulse selectable)

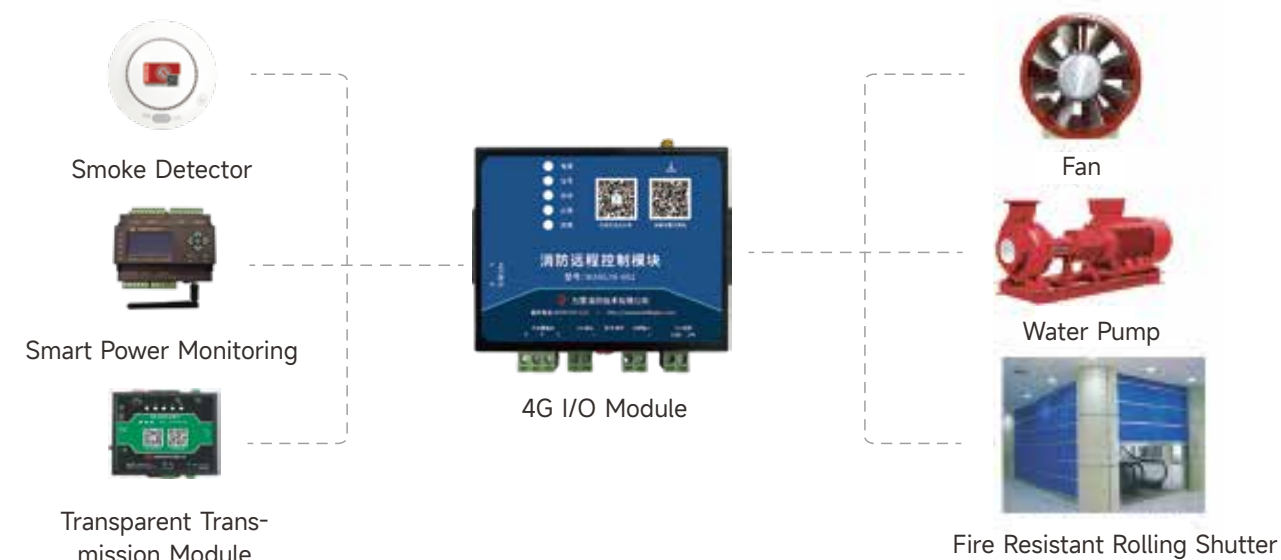
Feedback: 1 feedback channel with feedback fault detection

Max Output Current: 2A

Operating Temperature: -10°C ~ +55°C

Relative Humidity: ≤95%RH (40°C±2°C)

Additional Interface: RS485 (for local network control)



Exhaust Air



Fresh Air



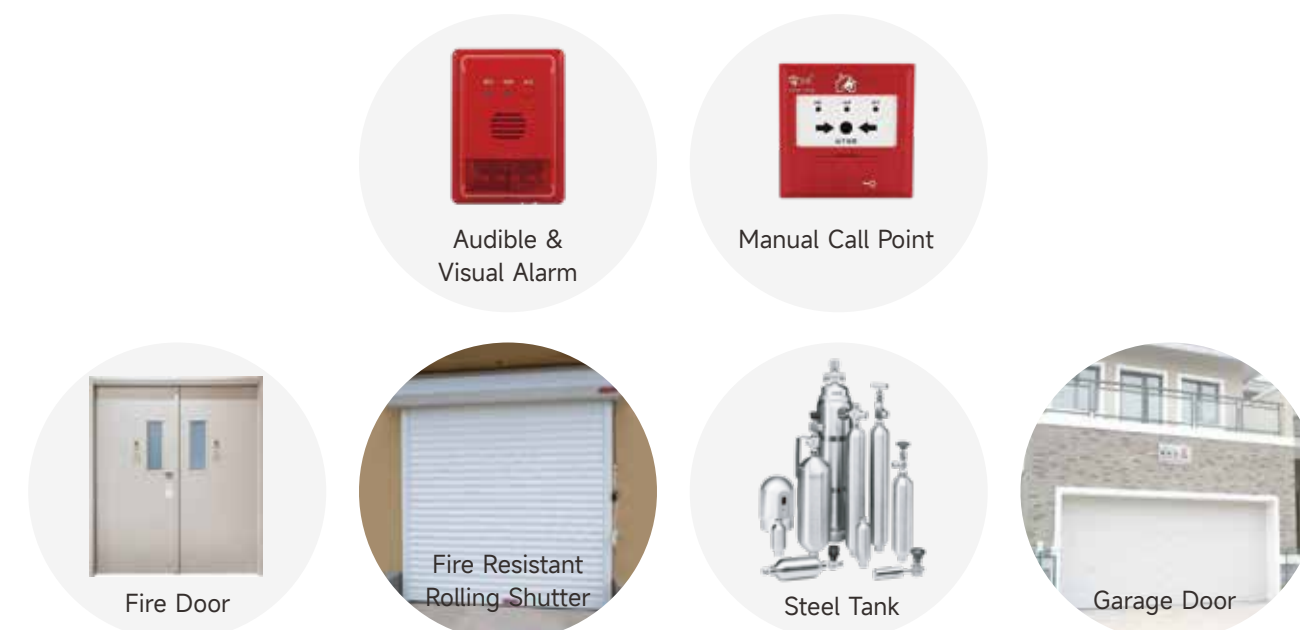
Pump Room



Modern Breeding Industry



Modern Agriculture



Smart Power Monitoring Series Introduction

Smart Power Detector

WANLIN-705



Model WANLIN-705 integrates residual current, temperature, current, voltage and power consumption measurement, digital input/output, audible & visual alarm and network communication. When electrical faults occur, it triggers light alarm to notify staff to handle warnings and eliminate hidden risks and accidents.

Adopting advanced microelectronic technology, it delivers high alarm accuracy, reliable performance to avoid false/missed alarms, compact size, multi-functions and easy installation. It connects to the smart power platform via wireless communication for centralized visual monitoring.

Functions & Features

- Real-time monitoring: 1 channel residual current, 5 channels temperature, 3 channels current, 3 channels voltage, 1 digital input, 1 digital output and power statistics.
- Independent parameter configuration for early warning and alarm thresholds.
- Audible & visual alarm activated upon threshold violation.
- Wireless communication enables continuous on-site monitoring for timely fault and alarm detection.
- Short/open circuit detection for residual current and temperature sensors.
- Phase sequence detection to identify phase loss and wrong phase connection.
- Chinese LCD display.
- 1 built-in RS485 communication port.
- Pluggable terminals for live installation without power cut-off.

Specifications

- Communication: 4G
- Operating Voltage: AC220V(+15%), 50Hz
- Standards: GB14287.2-2014; GB14287.3-2014; GB28184-2011

- Environmental Data
 - Operating Temperature: -10°C ~ 40°C (LCD replacement required below -20°C)
 - Relative Humidity: ≤95%, non-condensing
 - Altitude: ≤3000m
 - Mounting: DIN rail mount

- Mechanical Parameters
 - Housing Material: Flame-retardant ABS
 - Terminal Torque:
 - Power terminal: 0.4N·m
 - Other terminals: 0.5N·m
 - Dimension: 108mm × 86mm × 68mm

New Smart Fire Products

AI Universal Video Analytics Box

WANLIN-660

Preloaded with multiple algorithms; each supports customizable scheduled alarms. It supports local alarm reception over LAN, and remote alarm push to monitoring center and mobile terminals. Multiple algorithms can run simultaneously. Alarm records can be stored, counted and queried, and the device supports remote management. Custom algorithms are available. It can link and control external devices, and algorithm optimization can be updated remotely.



No Helmet Worn Camera Capacity: 50	Ordinary Uniform Camera Capacity: 14	Personnel Camera Capacity: 16	Vehicles Camera Capacity: 23
Flame Camera Capacity: 10	No Mask Worn Camera Capacity: 21	Fall Detection Camera Capacity: 10	Staff Absence Camera Capacity: 18
Personnel Overcrowding Camera Capacity: 11	Fire Lane Occupied Camera Capacity: 28	Missing Fire Extinguisher Camera Capacity: 32	Fire Door Inspection Camera Capacity: 22

Product Specifications

- Input Voltage: 12V
 - Operating Temperature: -20°C ~ 65°C
 - Storage Temperature: 15°C ~ 35°C
 - Weight: approx. 1kg
- Structure: Aluminum housing
 - Mounting: VESA mount / Wall-mounted / Desktop
 - Dimension: 133mm × 125mm × 40mm
 - Operating Humidity: 5%~95% RH, non-condensing



Engineering Cases



Nanwen University

Beijing Majuqiao
Dadushe Kindergarten

Jishou University

Beijing Fengtai
HospitalHuangshan University
Anhui ProvinceMapo Town, Shunyi
District, Beijing

State Grid Shenyang

125 Nursing Homes
in Chengde

Shengli Oilfield

Smart Fire Protection
Renovation Project of
State Grid Jibei Electric PowerRemote Monitoring of
Outdoor Fire Hydrants
for Xiamen WaterPingshan Hospital
Shijiazhuang

Jinke Group



Sanchuan Mansion

Urban Management Law
Enforcement Brigade
of Dongcheng District, Beijing

Shaanxi Coal Group



Baiyinhua Coal Mine



Wannan College

School of Medicine
Jishou UniversityBeijing Airport
Garden HotelSmart Fire Protection
Renovation Project of
Guanyinsi Community,
Daxing District, BeijingZhi'an Community,
Beijing Municipal
Administrative CenterSmart Campus Project
of Jing'an District
Education Commission
ShanghaiSmart Fire Protection
Renovation for All Outlets
of Agricultural Bank of
China Beijing BranchDaliuta Coal Mine
Industrial Park
Yulin, Shaanxi

Cooperating Units



Wealth Win-Win

We Sincerely Recruit

Global Wealth Partners

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