



INNOBIZ
사단법인 중소기업기술혁신협회

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ZAVA NETWORKS

Smoke Detector Operation Control Device

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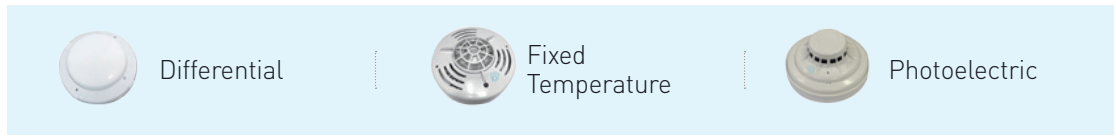


 ZAVA Networks
(주)자바네트웍스

Smoke Detector Operation Control Device

Scope of Operation

Automatic fire detection system, etc.
(differential, fixed temperature, photoelectric spot type detectors)



Device Overview

A device that provides information on the location of working fire detectors and automatically restores any detectors that have stopped due to a circuit failure to a normal state

Key Features

01

Addressing by detector

- Displays triggered detector locations
- Displays ignition point and spread path

Trace the root cause of fire alarms

02

Automatic recovery of detector circuit failures

- Automatic recovery of stopped fire detectors
- Disconnected point or disconnected section

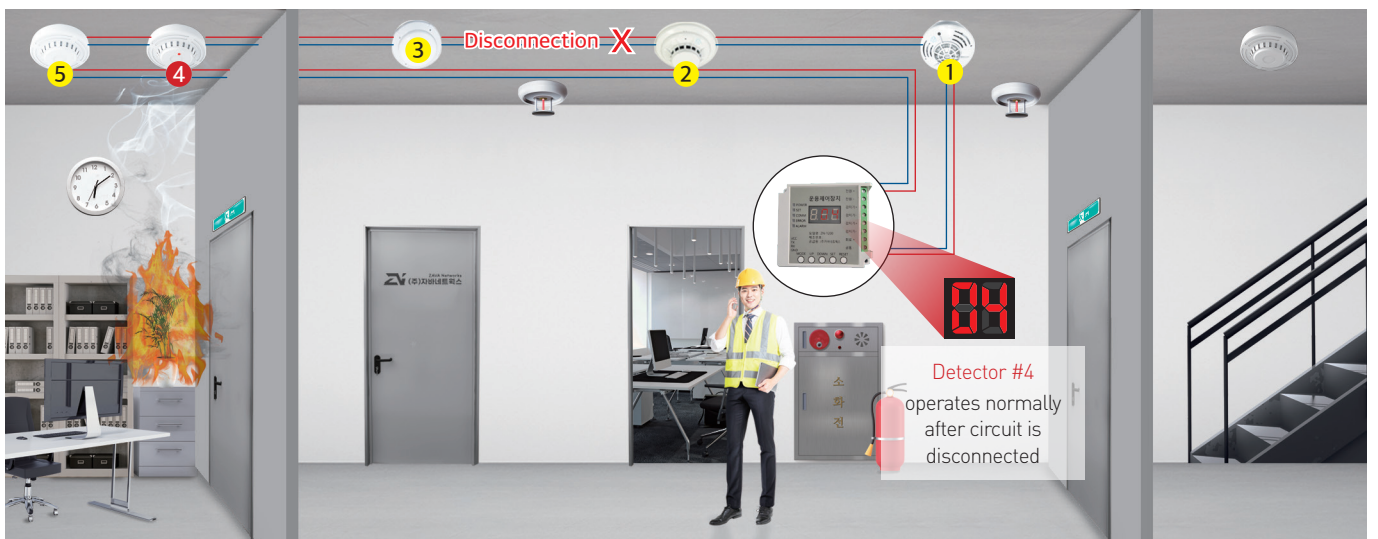
Ensure fire detection continuity

03

Real-time remote monitoring

- Selective operation between wired and wireless communication

Selective operation between wired and wireless communication



Operation Control Device Features

Product Images



Features



The first product using new technology in Korea and abroad

This is an automatic fire system that informs the location of triggered detectors and operates even in the event of circuit failure. This new product utilizes new technology that does not exist in fire protection products in Korea and abroad.



Easy installation and operation without changing existing facilities

It is operated using a transmission and distribution method while using the existing automatic fire detection system facilities.



Excellent technical and cost-efficiency, ensuring continuity of fire detection

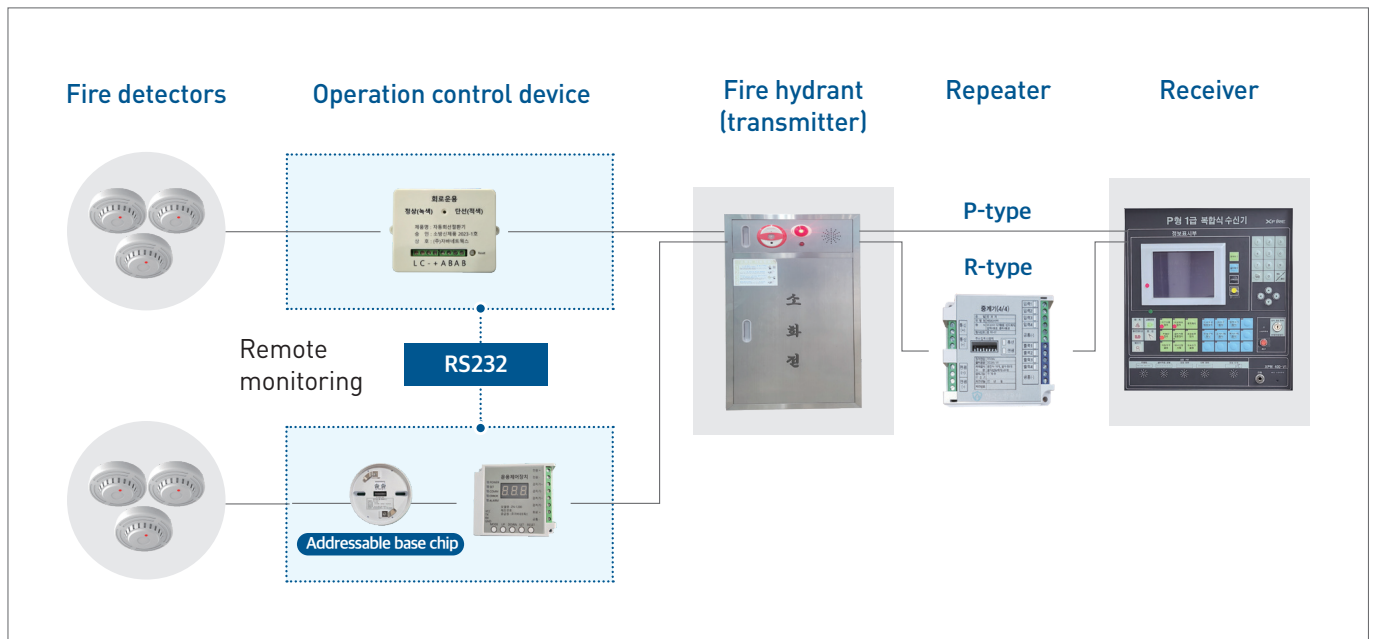
Significantly upgrades the operation of automatic fire system, including detector location detection and automatic circuit switching, with little cost (product) and effort (installation).

Scope

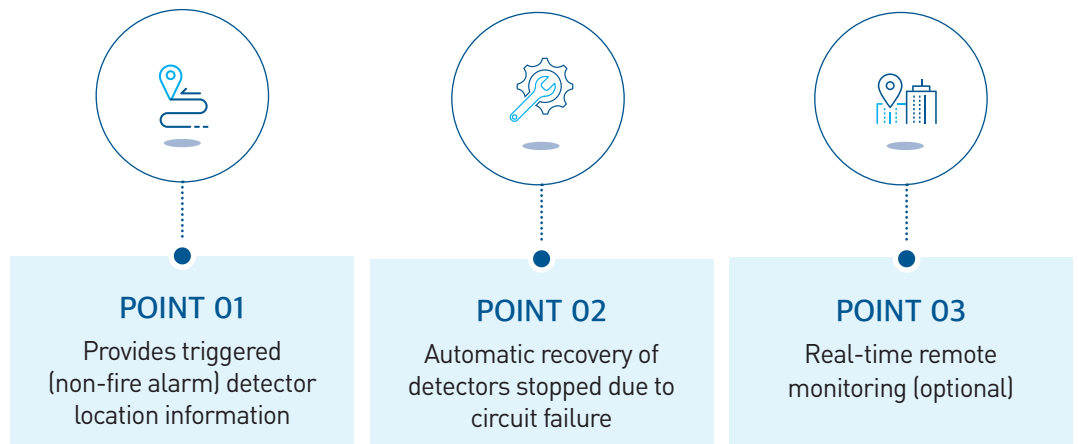
Type	A - TYPE	B - TYPE
Scope of Application (R-type, P-type receiver)	<ul style="list-style-type: none"> Automatic recovery of detector circuit failures Remote monitoring function (optional) 	<ul style="list-style-type: none"> Automatic recovery of circuit failures Provides alarm detector location information Remote monitoring function (optional)

System Configuration, Functions, Specifications

System Configuration



Post-Installation Functions



Product Specifications

Type	A - TYPE(ZN 1100)	B - TYPE(ZN 1200)
Produce Size	•65mm*80mm*22mm	•79mm*92mm*24mm
Power Supply	•DC 24V	•DC 24V
I/O Port	•8 PIN (Circuit power, detector) •4 PIN (Remote monitoring)	•8 PIN (Circuit power, detector) •4 PIN (Remote monitoring)
Operation Method	•Detector circuit opening/closing	•UART communication
Status Indicators	•Circuit operation Normal (● Green) Failure (● Red)	•Circuit operation Normal (● Green) Failure (● Red) •Motion detector (address display)

Fire Safety Laws and Government Support

Enforcement Decree on the Reinforcement of the Installation and Management of Firefighting Systems

Article 13 (Subjects to Reinforced Firefighting System Standards)

1. Fire extinguishers, automatic firefighting devices, automatic fire detection monitoring facilities, emergency lighting, and fire protection facilities ins **utility tunnels** defined in Article 2(9) of the "National Land Planning and Management Act"
2. Fire extinguishers, automatic firefighting devices, automatic fire detection monitoring facilities, emergency lighting, and fire protection facilities ins **underground cable tunnels** used for the electricity and telecommunications
3. Basic sprinkler systems, automatic fire detection systems, and dedicated fire alarm systems installed at facilities for **senior citizens and children**
4. Sprinkler systems, basic sprinkler systems, automatic fire detection systems and automatic fire signalling systems

Enforcement target

- ※ Utility tunnels, underground tunnels
- ※ Facilities for senior citizens and children and medical facilities

Multi-Family Housing Fire Safety Standards

Article 11 (Automatic Fire Detection System) ① Detectors shall be installed in accordance with the following standards:

1. Install analog type detectors, photoelectric air-aspirated detectors, or detectors with equivalent or better function and performance
2. The signal processing method of the detector shall be in accordance with Safety Performance Standards for Automatic Fire Detection System and
3. Smoke detectors must be installed in the living room within a unit (refers to typical rooms and living rooms that may be used for sleeping purposes)
4. Ensure that the detector displays failure when circuit is disconnected and that the detectors installed on those circuits will have the capacity to operate normally.

Detector Circuit Operation Standards

Support for performance improvement costs of automatic fire detection system (Multi-Family Housing Management Support Ordinance)



Article 7 (Scope of Support Target and Support Criteria)

- AB. Installation, renovation, and maintenance of fire extinguishing equipment (indoor fire hydrants, sprinklers, smothering extinguishment covers) and alarms (automatic fire detection system)



Article 3 (Support Project)

14. Firefighting equipment such as fire extinguishing equipment (fire pumps, fire extinguishing water pipe) and automatic fire detection system (excluding households)



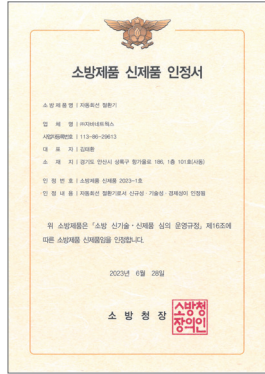
Article 5 (Support Target)

19. Performance improvement and installation of fire safety facilities (automatic fire detection system and automatic emergency door opening and closing devices) (limited to common areas)



ZAVA Networks Premium

Certificates



New Firefighting Product Certificate

Recognition for technical excellence, novelty, and originality in fire safety



Patent No. 10-2696210

Switching Device Having Detecting the Location of the Fire Detector and Switching Function of Detection Circuit



Patent No. 10-2313595

System for Automatic Fire Detection working with Disconnected Detection Line



Patent No. 10-2661140

A Transfer Management And Monitoring Device When the Networking Line of the System Fire Detection Device is Disconnected



Test Report

Testing of (electromagnetic compatibility) and reliability (durability) of broadcasting and communication equipment



Certificate of Venture Enterprise

Recognized as a designated venture business under the Special Act on the Promotion of Venture Businesses

