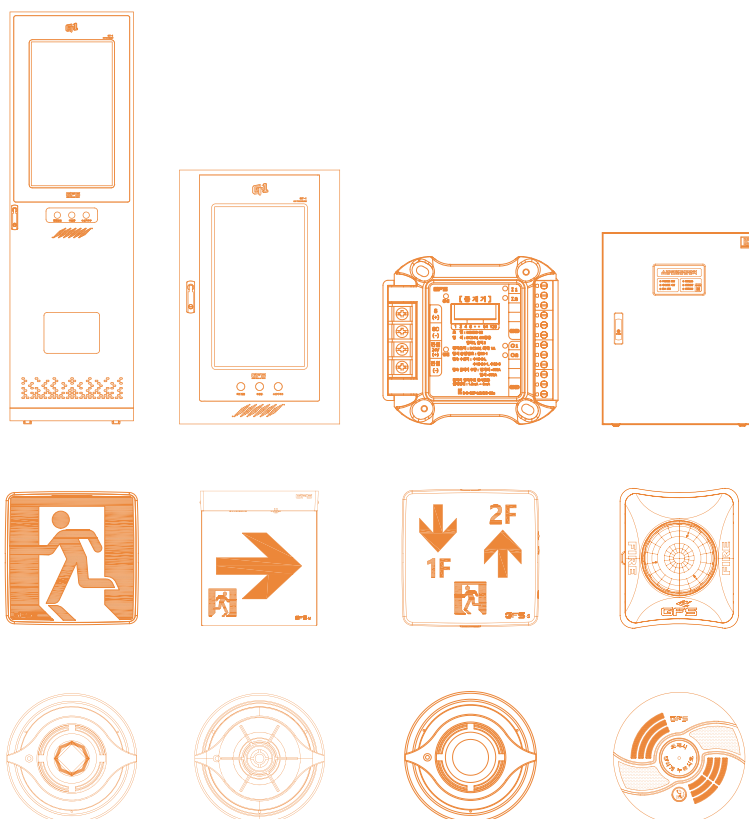


PRODUCT CATALOGUE



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Addressable fire alarm control panel signal network
GT1 Addressable fire alarm control panel - Standing type
GT1 Addressable fire alarm control panel - Wall type
2 Loop Redbox Addressable fire alarm control panel
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Analog fixed temperature heat detector
Waterproof Analog fixed temperature heat detector
Waterproof Rate-of-rise heat detector
Waterproof Fixed temperature heat detector
Rate-of-rise heat detector
Fixed temperature heat detector
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Detector base

FIRE ALARM CONTROL CENTER _31

GFSM 3.0
GDS

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Indicator lamp
Fire alarm bell
Manual release station (Sprinkler system)
Manual release station (Gas extinguishing system)
Manual station (Smoke damper system)
Booster power supply 20A
Booster power supply 15A
Booster power supply 5A
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Fire Phone Handset
Electronic siren
Gas Release lamp
Remote Indicator
Addressable Remote Indicator
Strobe (synchronized/asynchronized)
Strobe synchronization module
Horn & Strobe
Addressable manual call point

EXIT LIGHT _48

Exit light Including Speaker and Strobe (Medium size, Wall wide type)
Exit light Including Speaker and Strobe (Medium size, Wall type) Exit
light Including Speaker and Strobe (Small size, Wall type)
Exit light (Medium size, Wall wide type)
Exit light (Small size, Wall type)
Exit light (Small size, Ceiling type)
Exit light (Medium size, Wall type)
Exit light (Medium size, Ceiling type)
Exit light (Big size, Wall type)
Exit light (Big size, Single-sided, Ceiling type)
Exit light - Hallway (Medium size, Wall type)
Exit light - Hallway (Medium size, Ceiling type)
Exit light - Stairway (Small size, Wall type)
Exit light - Passageway (Small size, Wall type)

MAJOR REFERENCES _62

COMPANY HISTORY

Now

- 2025. 12 Recipient of the Presidential Award – 2025 Small and Medium-Sized Enterprise Competition.
- 2025. 12 Received a Certificate of Merit from the Minister of Climate, Energy, and Environment – Korea Nuclear Power Congress 2025.
- 2025. 08 Participating in overseas exhibition 'Secutech Viet Nam - Hochiminh
- 2024. 11 Received New venture 100 billion company award - Ministry of SMEs and Startups, given by The Venture Business Association
- 2024. 08 Participating in overseas exhibition 'Secutech Vietnam-Hochiminh'
- 2024. 06 Opening A Affiliated Research Institute at Uijeongbu Gosan-dong
- 2023. 12 Achieved sales of 122.7 billion won
- 2023. 12 Sign an agency contract with "TRANG AN T&T"
- 2023. 12 Have agreement on Nuclear Energy Business Cooperation between GFS and OTS
- 2023. 07 Participating in overseas exhibition 'Secutech Vietnam-Hanoi'
- 2022. 08 Participating in domestic exhibition 'International Fire Safety Expo-Daegu EXCO'
- 2021. 10 Samsung Electronics Smart Factory Phase 1 and 2 Construction and Operation
- 2021. 02 Received the Business of Digital Signal Information 350412
- 2020. 03 Received Certificate of Merit for Typical Taxpayer by Minister Hong Nam Ki, Ministry of Planning and Finance

2020

- 2019. 03 Received award for the company that fulfill the tax obligations completely – Uijeongbu Tax Office
- 2018. 11 Received industry Award - North Gyeonggi Industrial Chamber of Commerce 2nd time
- 2018. 05 Received the Industrial Medal Award of the Association of Enterprises
- 2018. 03 Received Certificate of Merit from Deputy Minister of Natural Resources for the 45th Environment Day
- 2017. 09 Received Certificate of Human Resource Development (Ministry of Labor)
- 2016. 12 Received Certificate of Family Harmony Enterprise from the Ministry of Gender Equality
- 2016. 01 Received Certificate of Merit for Excellent Enterprise from the Ministry of Labor
- 2016. 07 Received Certificate of Merit from the Minister of Labor
- 2016. 07 Received ISO 9001/ ISO 14001 (Korea Business Certification Institute)
- 2015. 12 Certified Enterprise Venture (Technical Guarantee Fund)
- 2015. 10 Received Certificate of Merit for contributing to business safety and developing the organization supporting the fire prevention industry
- 2015. 03 Certified fire alarm system with electrical monitoring device
- 2013. 12 Won the award in the 1st fire protection industry excellent design exhibition
- 2013. 10 Received Certificate of No Accident Enterprise (Korea Health Safety Organization)
- 2013. 05 Received Certificate of Merit from Minister of Safety Administration
- 2013. 03 Received Certificate of Merit from Korea's Minister of Knowledge Economy
- 2012. 11 Received excellent equipment award (X-fire 2.0)
- 2011. 12 Received a certificate of merit from Kyunggido Province for great contributions to the development of the region
- 2011. 10 Changed company name to GFS Joint Stock Company & Announce strategic vision
- 2011. 09 Certified as HRD Elite Enterprise (4 co-certified by government departments)
- 2011. 06 Obtained "MAIN-BIZ" certificate for Small & Medium Business in terms of business innovation
- 2011. 02 Registered for fire protection system management business (Gyeonggi-do Uijeongbu #2011-3)
- 2010. 10 Developed emergency lighting for stairways - a first for Korea
- 2010. 02 Registered to meet the conditions for providing fire protection design services
- 2010. 02 Established subsidiary in Vietnam

2010

- 2007. 12 Obtained the certificate of technical innovation enterprise (INNO-BIZ)
- 2007. 11 Received Civil Merit Medal from the President of Korean on forty-fifth Firefighting Day
- 2007. 11 Received the accident-free certificate issued by the Korea Industrial Safety Corporation
- 2006. 07 Received Certificate of Merit from the Prime Minister for the Prevention of Industrial Accidents
- 2004. 10 Established research department under the enterprise
- 2004. 07 Selected as Enterprise with Excellent Design for X-Fire Fire Alarm, Manual Push Station
- 2002. 12 Received the accident-free certificate issued by the Korea Industrial Safety Corporation
- 2001. 10 Moved head office and plant to 529-5, Yonghyun-dong, Uijeongbu-si, Gyunggi-do)
- 2001. 02 Received FILK Certification from fire testing institute for 11 categories including addressable fire alarm control panel
- 2001. 02 Received ISO 9001 (UK SGS Company)
- 2000. 12 Technical cooperation with US company EST (Edwards System Technology)

2000

- 1998. 07 Joined Korea Association of Fire Protection Companies (No. 2271)
- 1998. 06 IGot the Electric Company License (No. 1404 Gyunggi)
- 1997. 06 Received the Enterprise No Accident Award (Minister of Labor)
- 1997. 06 ISO 9002 certified (UK SGS company)
- 1997. 05 Received Industry Award
- 1996. 08 Registered as a company specializing in fire prevention and fighting (Fire alarm and fire fighting)
- 1996. 04 Selected as Gyeonggido Promising Enterprise

1990

- 1986. 12 Technical cooperation with Japanese company Majusuta (Panaasonic)
- 1985. 11 Moved head office to 138-59 Yongtu2dong, Dongdaemun Seoul, Korea
- 1985. 08 Got a fire protection equipment enterprise license
- 1984. 11 Selected as a promising business
- 1983. 01 Moved head office and built plant at 120-8 Huecheongri Huecheonup Yangchugun Gyunggido
- 1981. 11 Moved head office to April 27 Yongtudong, Dongdaemun

1980

- 1978. 10 Exported to the US isolator fire detectors
- 1975. 08 Developed and sold in the domestic market the gas leak alarms
- 1975. 04 Obtained the license to manufacture fire prevention equipment (Ministry of Home Affairs No. 39)
- 1974. 08 Established a legal entity and changed company name to Gumsung Fire Prevention Industry Joint Stock Company
- 1972. 02 Joined the Korea Association of Fire Protection Equipment Cooperation
- 1971. 12 Began to specialize in the field of fire prevention

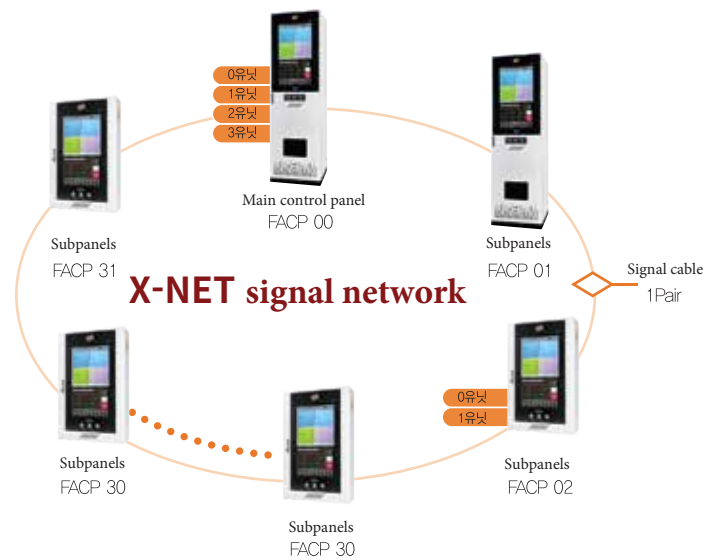
1970

- 1969. 07 Change company name to Dongshin Fire Alarm Equipment Corporation
- 1966. 04 Established as Dongyang Electric Industry Corporation

1960

SYSTEM

Addressable fire alarm control panel signal network



X-NET Signal network

► X-NET(32 Panels)

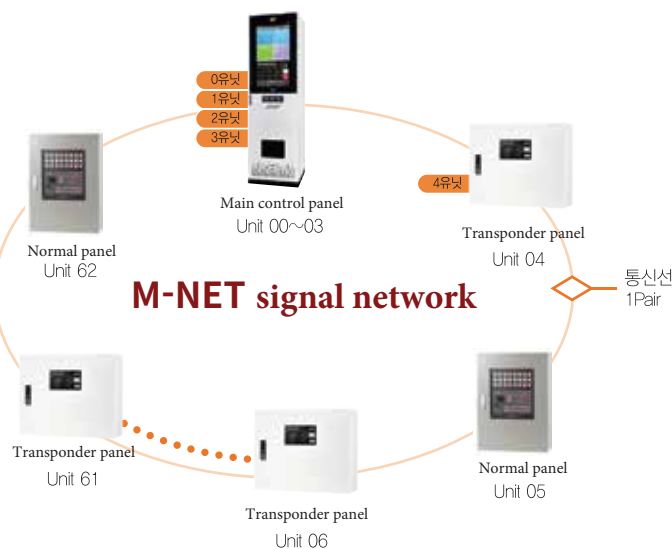
- Network signal between control panels

► Communication method

- RS-485 or Ethernet (Optional)

► Feature

- Among the addressable control panels, there is one main panel that controls the remaining subpanels.
- Capable of monitoring event information in all control panels and synchronous/ asynchronous settings in each one.



M-NET Signal network

► M-NET(64 Panels)

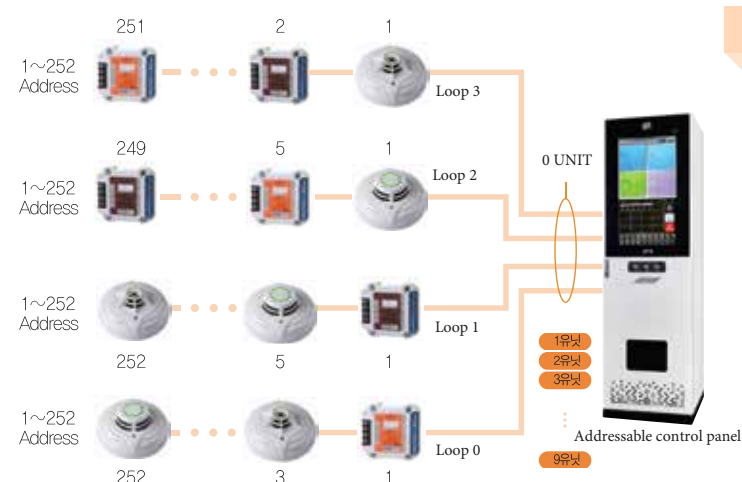
- Signal between module inside the panel and main panel
- Signal between transponder panel and main panel
- Signal between addressable panel & normal panel

► Communication method

- RS-485

► Feature

- The addressable control panel is the main panel, and the normal panels or transponder panels can transmit information when receiving a request signal from the main panel



GR type control panel LOOP signal network

► P-NET

- Signals between the addressable control panel and the module as well as the addressable detector (252 addresses/ loop)

► Communication method

- Method of using power and signal at the same time by electrical line signal

► Feature

- Capable to connect up to 252 addresses per Loop and use a mixture of detectors and modules. One control panel can connect 32 Loop (equipped with 8 loop cards) and expand to 252 loops using repeater panels



OVERVIEW

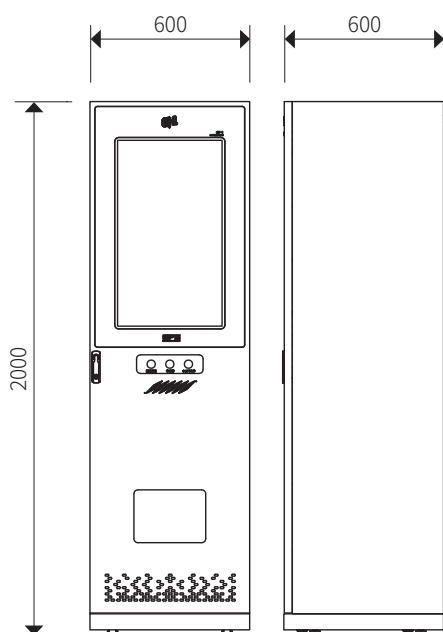
This is a Addressable fire alarm control panel GT1 used in large-scale buildings for systems such as automatic fire detection, water-based fire extinguishing, and smoke control. The device enables real-time monitoring of the operational status of repeaters, analog sensors, and fire protection equipment. With a 32-inch touchscreen LCD and an intuitive user interface categorized by user type, the device allows for quick and accurate information checking while enhancing operational convenience.

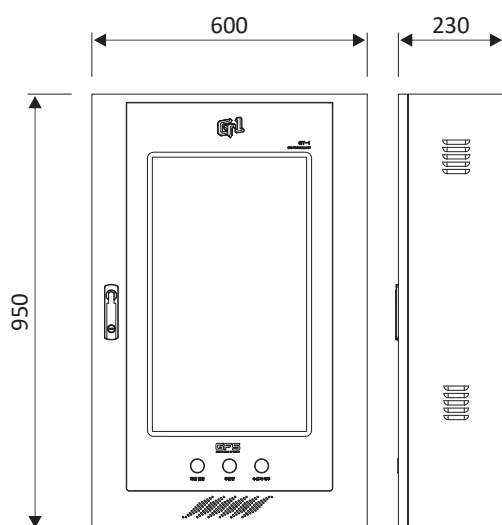
FEATURE

- **32"LCD Touch screen display**
- **User-friendly interface design**
Intuitive design with easy-to-read font size
- **Custom menu for user**
Management and event efficiency improved by separating administrator/construction mode
- **GDS Viewer and printer all-in-one**
- **Display fire video that is connected to CCTV(IP Camera, NVR/DVR)**
- **Able to connect network**
Connect network between fire alarm control panels (Max 32 panels)
Expand capability of addresses by using exclusive Transponder Panel (Max 63 Panels)
- **Supports individual control and disconnection, as well as separate configuration for each analog detector.**
- **Maintenance alert for smoke detectors (Using the pre-alarm feature)**

SPECIFICATION

Model	G1GLA - 08 , G1GLA - 16 ; G1GLA - 24 ; G1GLA - 32.
KFI Approval No.	Su 24 -20-1
Description	AC 220V, DC 24V, LCD, Analog, Addressable type, time delay setting, Indoor type, Indoor/outdoor fire extinguishers, sprinklers equipment, Water spray and foam fire extinguishing device, smoke extraction system
Standby Power	DC24V, 18Ah (DC12V, 18Ah × 2 lead-acid batteries)
Output Voltage	DC 24V, 0.5A
Communication Method	RS-485 (FACP, Transponder Panel) / Polling Address (Module, Detector)
X-NET/M-NET	Use STP 16AWG, 18AWG with standard section : Max 1.0km
Loop line	Loop line resistor Max 50 Ω / Max length 1.2km - 16 AWG/18 AWG
No. of addresses/loop	Maximum of 252 addresses. No distinction between modules and detectors.
Maximum Loop	Max 32 Loop (32 Loop x 252 Addresses = 8,064 Adresses)
Maximum Addresses	Each Transponder Panel, 1,008 Addresses x 63 Panels = 63,504 Addresses
Maximum Addresses in the Xnet network	63,504 Addresses x 32 Panels = 2,032,128 Addresses
Dimension (WxHxD)	600(W) × 2000(H) × 600(D) mm
Material	Steel 1.6mm
Operating Enviroment	-10°C ~ 50°C / 10% ~ 95% RH





FEATURE

- Built-in 27" LCD touch screen
- User-friendly interface design

Intuitive design with easy-to-read font size

- Custom menu for user

Management and event efficiency improved by separating administrator/construction mode

- GDS Viewer and printer all-in-one
- Display fire video that is connected to CCTV (IP Camera, NVR/DVR)
- Able to connect network

Connect network between fire alarm control panels (Max 32 panels)
Expand capability of addresses by using exclusive Transponder Panel (Max 63 Panels)

- Supports individual control and disconnection, as well as separate configuration for each analog detector.
- Maintenance alert for smoke detectors (Using the pre-alarm feature)

SPECIFICATION

Model	G1GLE-04, G1GLE-08
KFI Approval No.	Su 25-23
Description	AC 220V, DC 24V, LCD, Analog Addressable type, time delay setting Indoor type Indoor/outdoor fire extinguishers, sprinklers equipment Water spray and foam fire extinguishing device smoke extraction system
Standby Power	DC24V / 7Ah (DC12V / 7Ah x 2 lead-acid batteries)
Output Voltage	DC 24V, 0.5A
Communication Method	RS-485 (FACP, Transponder Panel) / Polling Address (Module, Detector)
X-NET/ M-NET	Use STP 16AWG, 18AWG with standard section : Max 1.0km
Loop line	Loop line resistor Max 50 Ω / Max length 1.2km - 16 AWG/18 AWG
No. of addresses/loop	Maximum of 252 addresses. No distinction between modules and detectors.
Maximum Loop	Max 8 Loop (8 Loop x 252 Addresses = 8,064 Adresses)
Maximum Addresses	Each Transponder Panel, 1,008 Addresses x 63 Panels = 63,504 Addresses
Maximum Addresses in the Xnet network	63,504 Addresses x 32 Panels = 2,032,128 Addresses
Dimension (WxHxD)	600(W) $\times$ 950(H) $\times$ 230(D) mm
Material	Steel 1.6mm
Operating Enviroment	-10°C ~ 50°C / 10% ~ 95% RH



OVERVIEW

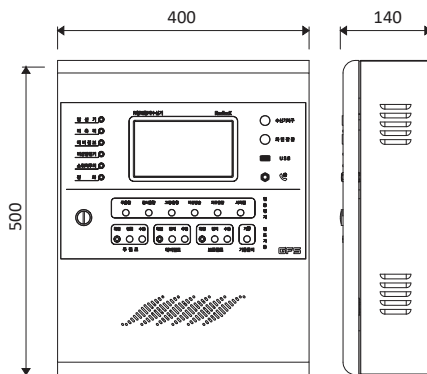
Redbox intelligent fire alarm control panel was developed for facilities with fewer than 500 addressable devices. It features a color touchscreen and physical buttons for monitoring and controlling connected devices.

FEATURE

- 7" TFT LCD Touch Screen (possible to monitor and regulate the system's operation, as well as to verify the facility operational position.)
- Simple event confirmation USB
- Accurate checking of fire location and ensuring economic feasibility by supporting addressable detectors
- Beautiful design to alleviate discomfort from the surrounding environment
- Increase convenience with specialized SLP program assistance

SPECIFICATION

Model	FERVE-02
KFI Approval No.	Su 22-5
KC Registration No.	R-R-GSF-F3RVE-03
Description	AC 330V, 3C 34V, LC3 type, Analog tye, Combined use for accumulation/ non-accumulation type, (indoor/ outdoor fire hydrant, sprinkler) system, (water spray, water monitor) fire extinguishing system, smoke control system
Input Voltage	AC330V, 50/60Hz
Standby Power	DC24V / 4Ah(DC12V / 4Ah x 2 sets) lead-acid battery
Output Voltage	DC24V / Max 2A
Communication Method	RS-485 (Fire Alarm Control Panel, Transponder Control Panel) PLC Polling Address (Modules, Detectors)
QM-NET Line	Use STP 16/18AWG with standard section : Max 1.0km
QP-NET Line	PLC loop line resistance 50Ω / Max. 1.2 km, Loopback
No of addresses/loop	Maximum of 250 addresses per loop
Maximum Loop	Max 2 Loop (2 Loop x 250 Addresses = 500 Adresses)
Dimension (WxHxD)	400(W) x 500(H) x 140(D) mm
Weight	12.1kg
Material	Steel 1.2mm
Operating Enviroment	-10°C ~ 50°C / 0% ~ 95% RH
Compatible with	F3 Control Panel (network configurable)



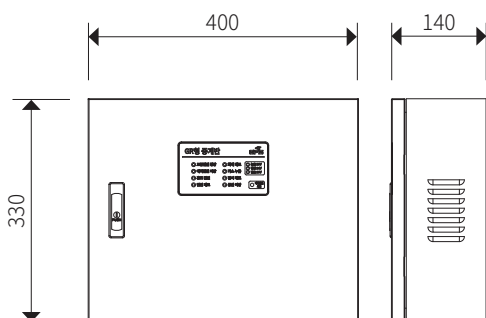


OVERVIEW

The transponder control panel iconnects and receives signals from the fire alarm control panel where receives event information such as fire, monitoring, failure from addressable devices and controls devices through the module. In case number of addresses of fire alarm control panel or the length of the signal line is limited, an additional transponder panel can be installed to expand the fire monitoring and control system.

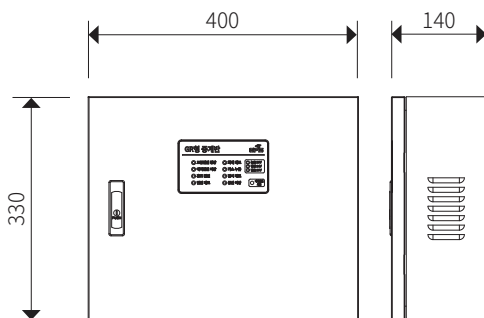
FEATURE

- Simultaneous response to the fire alarm control panel thanks to the RS-485 communication method
- Can be operated and work independently without a central panel
- Includes a backup battery to ensure operation during a main power failure.
- Connection distance to the central control panel can be extended using a signal amplifier module.



SPECIFICATION

Model	T4G-40
KFI Approval No.	Jung 25-21
KC Registration No.	R-R-GSF-T4G-40
Description	AC220V, DC24V, GR, 1008 input addresses, 1008 output addresses
Input Voltage	AC220V, 50/60Hz
Standby Power	DC24V / 4Ah (DC12V / 4Ah x 2 set)
Output Voltage	DC24V/ Max 0.2 A
Communication Method	P-NET PLC signal (transponder, detector) M-NET RS-485 signal (fire alarm control panel)
No. of addresses/loop	252 addresses per 1km (module and analog detector)
Maximum Loop	Max 4 loop
Maximum addresses	4 loops x 252 addresses = 1.008 addresses
Dimension (WxHxD)	400(W) x 330(H) x 140(D) mm
Weight	8kg
Material	Steel 1.2mm
Operating Enviroment	-10°C ~ 50°C / 10% ~ 95% RH



OVERVIEW

The transponder control panel is located in the automatic fire alarm system with the function of monitoring and controlling the fire in high-rise and large-scale buildings. The transponder panel connects and receives signals from the fire alarm control panel where receives event information such as fire, monitoring, failure from addressable devices and controls devices through the module. In case number of addresses of fire alarm control panel or the length of the signal line is limited, an additional transponder panel can be installed to expand the fire monitoring and control system. Capable to connect up to 63 transponder panels to one fire alarm control panel via QM-NET communication, and one transponder panel can connect 1,008 addressable modules and Analog detectors. In addition, the signal distance between the fire alarm control panel and the module, between the fire alarm control panel and the analog detector can be applied up to 1.2km according to the STP AWG 16/18 signal line standard. To ensure signal quality, it is possible to separate the internal signal and power unit and install additional QM-NET REPEATER to widen the signal distance. (Extend 1km signal distance) or add self-diagnosis, signal line monitoring and status confirmation.

FEATURE

- **Self-diagnosis (Applicable to models with self-diagnosis functionality)**

Detector and module signal line monitoring (Open circuit / Short circuit detection)

Detector and module operating status confirmation and monitoring

- **Fast response speed**

Real-time response rate synchronized with the main control panel via RS-485 communication

- **Standalone operation**

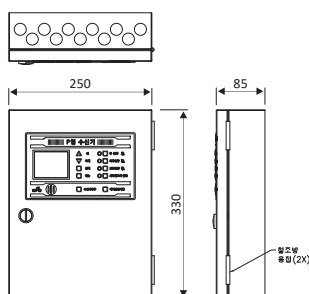
Capable of standalone operation without a main control panel

LED status indicators for visual confirmation of QM-NET device operation

- **Short-circuit isolators integrated to protect signal loops (Available in module and detector base types)**

SPECIFICATION

Model	T4G-40
KFI Approval No.	Jung 25-21
Description	AC220V, DC24V, GR, 1008 input addresses, 1008 output addresses
KC Registration No.	R-R-GSF-T4G-40
Input Voltage	AC220V, 50/60Hz
Standby Power	DC24V / 4Ah (DC12V / 4Ah x 2 set)
Output Voltage	DC24V/ Max 0.2 A
Communication Method	P-NET PLC signal (transponder, detector) M-NET RS-485 signal (fire alarm control panel)
Maximum Loop	Max 4 loop
No. of addresses/loop	252 addresses per 1km (module and analog detector)
Maximum addresses	4 loops x 252 addresses = 1,008 addresses
Dimension (WxHxD)	400(W) x 500(H) x 140(D)mm
Weight	11.4kg
Material	Steel 1.2mm
Operating Environment	-10°C ~ 50°C / 10% ~ 95% RH



FEATURE

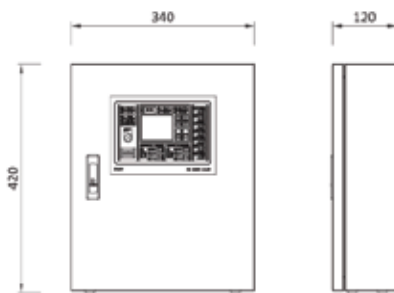
- The F3PVE-5 is a KFI-certified, 5-zone conventional fire alarm control panel
- Monitors zone status (open circuit) via a 10kΩ end-of-line resistor.
- Detector activation delay is configurable to three levels: 30s, 40s, or 50s.
- Features automatic reset after the incident clears (configurable for Input Latch or Unlatch modes).
- LCD screen displays Alarm and Trouble statuses, as well as zone and power supply information.
- Stores up to 200 events and allows event data export via USB port.
- 5 fire alarm zones: supports up to 40 smoke detectors or 60 heat detectors per zone.
- 1 AUX output (24VDC - 1A).
- 2 controllable NAC outputs (24VDC - 2A).
- 4 controllable relay outputs (dry contact).
- Integrated, controllable audible alarms for fire and trouble conditions.

SPECIFICATION

Model	F3PVE-05
KFI Approval No	Su 24 - 4
Description	AC 220V, DC 24V, LCD, Accumulation/Non Accumulation
Input voltage	AC 220V±20%, 50~60Hz Output voltage DC24V 1A
Standby Power	NI-Cd 24V / 900mA
Demension(WxHxD)	250(W) × 330(H) × 85(D) mm
Material	Steel 1.2mm
Operating Environment	-10°C ~ 50°C / 10% ~ 95% RH

COMPATIBLE DEVICES

DETECTOR MODEL	DESCRIPTION	MAXIMUM CONNECTIVITY
D1CPS	PHOTOELECTRIC SMOKE DETECTOR	40 EA / ZONE
D1CRS	RATE OF RISE HEAT DETECTOR	60 EA / ZONE
D1CFS-70	FIXED TEMPERATURE HEAT DETECTOR	60 EA / ZONE
DCRW	WATERPROOF RATE OF RISE HEAT DETECTOR	60 EA / ZONE
DCFW-70	WATERPROOF FIXED TEMPERATURE HEAT DETECTOR	60 EA / ZONE
DETECTOR BASE		
DB	DETECTOR BASE	60 EA
DVB	DETECTOR BASE WITH REMOTE INDICATOR	60 EA
MANUAL STATION		
ACBR-04	MANUAL STATION	n/a
ALRAM DEVICE		
B1R-90	FIRE ALARM BELL	20 EA
B2SLR-45	STROBE (SYNCHRONIZED / ASYNCHRONIZED)	20
B5VLR	HORN & STROBE	15 EA
VDR	REMOTE INDICATOR	n/a
V2CLR	INDICATOR LAMP	20 EA



OVERVIEW

The F2PP gas releasing control panel can control two independent suppression zones and four detector monitoring channels; it features five outputs, including zone-specific sounders, suppression activation, and zone-specific fire bells. Each suppression control zone supports five monitoring functions: A/B detector monitoring, activation confirmation, suppression abort, and activation acknowledgment.

FEATURE

Control panel's modular components include: Power, Front, and Line 8. The functions of each module type are as follows:

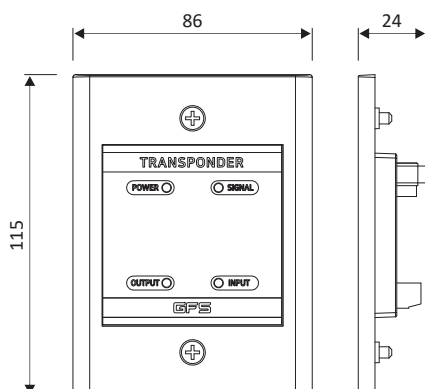
- Power: Contains terminal blocks for gas discharge control and alarm outputs.
- Front: Includes an integrated CPU for controlling the main control panel, an LCD to display system status, and function buttons.
- Line 8: Contains terminal blocks for connecting input devices such as detectors, activation buttons, abort buttons, and pressure switches.

SPECIFICATION

Model	F2PP-02
KFI Approval No.	Su 22-2
KC Registration No.	R-R-GSF-F2PPE-02
Description	AC 220V, DC 24V, LCD type, solid-state type, combined delay/non-delay, (dry chemical, CO ₂ , halon/halogenated agent), fire extinguishing equipment
Input Voltage	AC220V, 50Hz / 60Hz
Standby Power	24V DC 600mA Ni-Cd Battery
Signal reception capability	2 gas discharge signals, 2 monitoring signals
Notification	LED display lights in the form of cells on the control panel
Input Delay	In one's 60s (spanning the 30s, 40s, and 50s)
Countdown to discharge	Settable to: 10s, 20s, 30s
Display Screen	2.8" TFT LCD, primarily using LED screens (10 units)
Control Output	5 interlocking controls, 2 activation controls
Connectable Detectors Quantity	Smoke detectors: fewer than 20 units per zone; Heat detectors: fewer than 20 units per zone.
Demension(WxHxD)	340(W) x 420(W) x 98(D) mm
Weight	6.4 kg
Material	Steel 1.2mm
Operating Enviroment	-10°C ~ 50°C / 0% ~ 95% RH

OVERVIEW

- M3GIO-11 is used to convert active signals according to electrical contacts into digital signals such as detector, manual station and transmit the signals to the FACP
- Process the digital signals from the fire alarm control panel and control output devices
- The drawing of [Product Configuration and External Wiring] is based on The module 4 inputs/4 outputs. In case of module 2 inputs/2 outputs, the number of input/output lines in ③ is configured to be reduced each 2 lines.



SPECIFICATION

Model	M3GIO-11
Input voltage	DC24V±20%, 1 Input, 1 Output, moisture-resistant
End of line resistor	10kΩ
Communication Method	QP-NET (Power line communication), Polling Address
Dimension(WxHxD)	86(W) × 115(H) mm
Weight	70g
Color	CASE: WHITE
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH
Connectable Devices	GR Type System
	F3G / T3G-40
	F3RVE - 02
	G1GLA, G1GLE

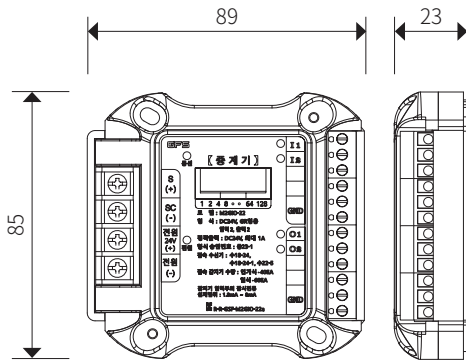


OVERVIEW

Module F2GIO-22 is a device that converts active signals such as detectors, manual station or electrical contacts into digital input signals, transmitting them to a fire alarm control panel or transponder panel via QP-NET signal line, process the output digital control signal from the central panel and activate alarm devices such as bells, sirens or control devices.

FEATURE

- LED indicator for panel / repeater signal confirmation
- Led display for input signals / output signals confirmation
- DIP switch for address setting
- Integrated Input / Output protection
- Easy installation and wiring
- Compatible with 110x110x54mm junction boxes or centralized wiring control panel



SPECIFICATION

Model	M2GIO-22
KFI Approval No.	Jung 24-19
Description	DC 24V, GR type, Indoor type, 2 Input, 2 Output Circuits
KC Registration No.	R-R-GSF-M2GIO-22a
Input Voltage	DC24V $\pm$ 20% / Max 0.5A
Communication Method	P-NET (Power Line Communication), Polling Address Method
Display Device	LED Lights during Operation (6 LEDs)
Terminating Resistance	10k Ω 1/4W
Connectable Detectors Quantity	Conventional heat, Fixed temperature : Less than 60 Devices / Line Conventional Photoelectric: Less than 40 Devices / Line
Dimension (WxHxD)	89(W) x 85(H) x 23(D) mm
Weight	109g
Color	White Case, Orange Sticker
Material	PC
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

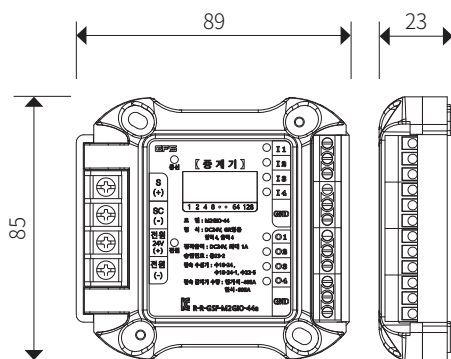


OVERVIEW

Module F2GIO-44 is a device that converts active signals such as detectors, manual station or electrical contacts into digital input signals, transmitting them to a fire alarm control panel or transponder panel via QP-NET signal line, process the output digital control signal from the central panel and activate alarm devices such as bells, sirens or control devices.

FEATURE

- LED indicator for panel / repeater signal confirmation
- Led display for input signals / output signals confirmation
- DIP switch for address setting
- Integrated Input / Output protection
- Easy installation and wiring
- Compatible with 110x110x54mm junction boxes or centralized wiring control panel



SPECIFICATION

Model	M2GIO-44
KFI Approval No.	Jung 24-18
Description	DC 24V, GR type, Indoor type, 2 Input, 2 Output Circuits
KC Registration No.	R-R-GSF-M2GIO-44a
Input Voltage	DC24V $\pm$ 20% / Max 0.5A
Communication Terminal	P-NET S (Signal), SC (Signal Common)
Communication Method	P-NET (Power Line Communication), Polling Address Method
Display Device	LED Lights during Operation (10 LEDs)
Terminating Resistance	10k Ω 1/4W
Connectable Detectors Quantity	Conventional Heat, Fixed temperature : Less than 60 Devices / Line Conventional Photoelectric: Less than 40 Devices / Line
Dimension (WxHxD)	89(W) x 85(H) x 23(D) mm
Weight	110g
Color	White Case, Brown Sticker
Material	PC
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

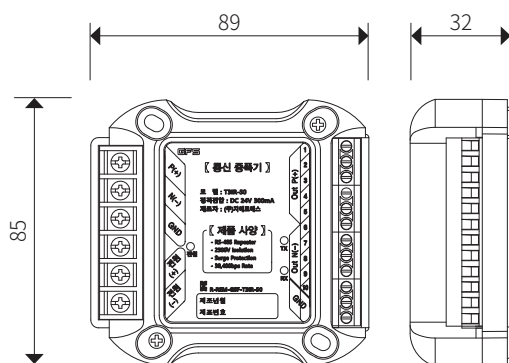


OVERVIEW

This is a device that limits interference and boosts signal strength, thereby improving transmission distance between devices within Xnet and Mnet networks.

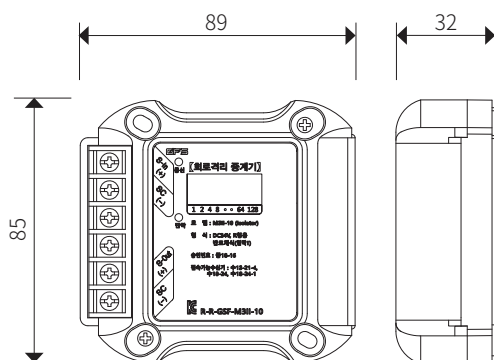
FEATURE

- Extends connection range for Xnet and Mnet networks (1.2 km)
- 15KV ESD Surge Protection
- 38,400 bps Data Rate
- Tx, Rx, LED Indicator Source
- Compatible with 110x110x54mm junction boxes or centralized wiring control panel
- Asynchronous 2-wire half-duplex communication method (Half Duplex Operation)



SPECIFICATION

Model	T3IR-50
KC Registration No.	R-R-GSF-T3IR-50
Input Voltage	DC24V $\pm$ 20% / 300mA
Communication Method	X-NET, M-NET (RS-485)
Communication Distance	1.2km (STP 16/18, Shield Grounding Standard)
Data Rate	38.4 kbps Data Rate
Display Device	Red LED (Power source, Tx, Rx)
Dimension (WxHxD)	89(W) x 85(H) x 32(D) mm
Weight	133g
Color	White Case, Light Purple Sticker
Material	ABS Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

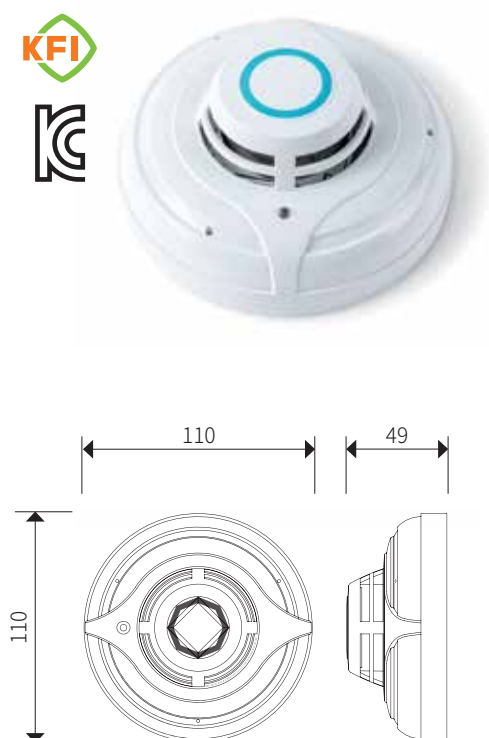
Isolator module M3II-10 is a responsive device with a performance-oriented design, and when a line or loop failure occurs, it ensures stable operation of the entire system by isolating only the part where it occur trouble.

FEATURE

- Automatic recovery
- Install up to 20 Modules per loop
- There is no limit to the number of devices between 2 isolation module
- Display quarantine information as monitoring status
- Set module address using DIP switch
- Use for installation with 110x110x54mm junction box or centralized connection cabinet

SPECIFICATION

Model	M3II-10
KFI Approval No.	Jung 18-16
Description	DC 24V, R type, Indoor type, 1-circuit input
KC Registration No.	R-R-GSF-M3II-10
Input Voltage	DC24V $\pm$ 20%
Current consumption	Detection 1,400uA, Operation 10mA
Communication Method	P-NET (Power Line Communication PLC), Polling Address Method
Input Address	DIP Switch method (Operational information transmission)
Connectable Quantity	Max 20 modules/ Loop
Dimension (WxHxD)	89(W) x 85(H) x 32(D) mm
Weight	119g
Color	White Case, Light Blue Sticker
Material	ABS Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

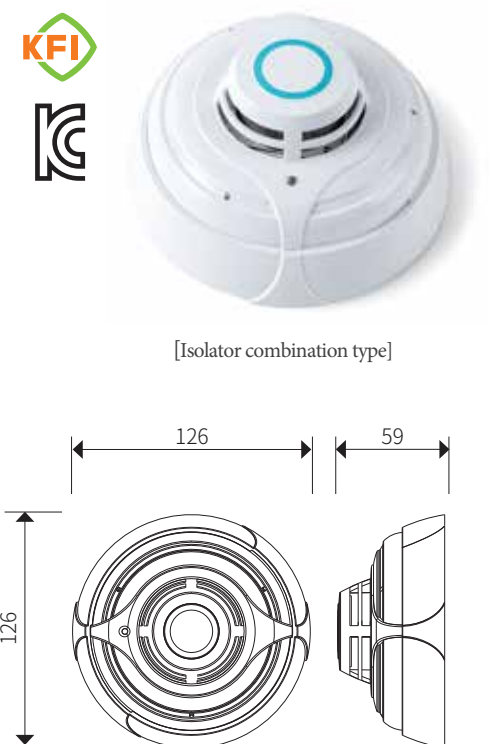


OVERVIEW

Addressable photoelectric smoke detector works by detecting scattered light produced by smoke particles. When the smoke particles of the fire enter the dark chamber of the detector by convection, the scattered light is generated by the infrared luminescent element in the dark chamber, which is then detected and converted into an electrical signal by the lightreceiving element. The electrical signal makes a change according to the rise and fall of the smoke molecules and time, then converts to an Analog index and transmits to the connected central panel. The central panel calls the CPU signal in the detector periodically, checking the smoke concentration value and the detector's status information, and each detector has its own fixed address through the address input device and transmits address-by-address detector status information to the central panel. When reaching the fire threshold(smoke concentration value) set in the fire alarm control panel, the detector's LED lights upto show the fire, the fire alarm control panel shows the location and the change over time of aspecific smoke concentration value.

FEATURE

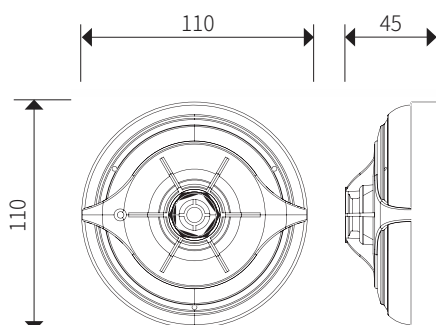
- Enable 252 connected detectors per loop
- Constanly detect concentration range for ambient smoke
- Generate alarms in stages by FACP setting program (pre-alarm 4%/m, fire alarm 10%/m)
- Possible fire testing with detector without FACP and transponder panel (Using loop diagnostic tool)
- Address setting : Electronic address entry method - Using address setting device (W3A)
- Features moisture resistance.



[Isolator combination type]

SPECIFICATION

Model	D4IPS
KFI Approval No.	Gam 22-54
Description	DC28V, Analog type, General type , Restorable type, Address type, Nominal sensing concentration range (5%/m ~ 15%/m)
KC Registration No.	R-R-GSF-D4IPS
Current Consumption	Monitoring 0.7mA, Operating 5mA
Operating Scope	5%/m ~ 15%/m
Communication Method	P-NET (Power Line Communication PLC), Polling Address method
Connectable Quantity	Max 252 devices / loop
Communication distance	1.0km (STP AWG 16/18 Standard)
Input Address	Electronic address entry method - Using address setting device (W3A)
Dimension	General base: 110(Ø) x 49(D) mm Isolator base: 126(Ø) x 59(D) mm
Weight	121g(General base), 188g(Isolator base)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

Addressable fixed heat detector is activated when the ambient temperature reaches a certain level and uses a highly sensitive electronic thermometer temperature sensor to detect fire.

The electrical signal detected by the temperature sensor generates changes according to the environment temperature and time variation, this signal is converted into an Analog index and transmitted to the connected fire alarm control panel in realtime. The fire alarm control panel periodically sends a signal to the CPU in the detector to check the temperature and status information of the detector, each detector has its own address through the address input device and transmits address-by-address detector status information to the main control panel.

When reaching the fire threshold (heat concentration value) set in the fire alarm control panel, the detector's LED lights up to show the fire, the fire alarm control panel shows the location and the change over time of a specific heat concentration value.

FEATURE

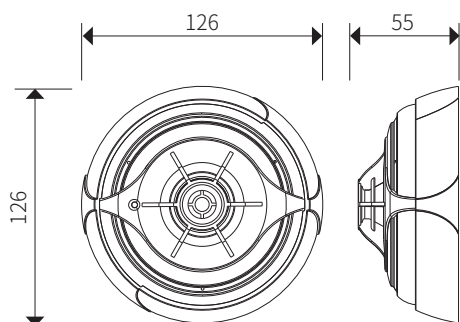
- Enable 252 connected detectors per loop
- Constantly detect concentration range for ambient temperature
- Generate alarms in stages by FACP setting program (pre-alarm 50°C, fire alarm 70°C)
- Minimize false alarm caused by condensation, dust...by applying film-type thermistor
- Possible to have separate detector fire testing without FACP and transponder panel
- Address setting: Electronic address entry method - Using address setting device (W3A)
- Waterproof (Grade IP57)

SPECIFICATION

Model	D4IFS-70
KFI Approval No.	Gam 22-53
Description	DC28V, Analog type, General type, Restorable type, Address type, Nominal sensing concentration range (60°C ~ 70°C)
KC Registration No.	R-R-GSF-D4IFS-70
Current Consumption	Monitoring 0.7mA, Operating 5mA
Operating Scope	60°C ~ 70°C
Communication Method	P-NET (Power Line Communication PLC), Polling Address method
Connectable Quantity	Max 252 addresses/ loop
Communication distance	1.0km (STP AWG 16/18 standard)
Input Address	Electronic address entry method - Using address setting device (W3A)
Dimension	General base: 110(Ø) x 45(D) mm Isolator base: 126(Ø) x 55(D) mm
Weight	108g(General base), 175g(Isolator base)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



[Isolator combination type]



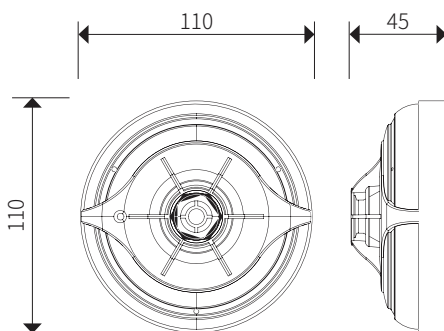


OVERVIEW

The addressable fixed temperature heat detector acts when the ambient temperature reaches a certain temperature and uses a highly sensitive thermistor sensor to detect fire. The electrical signal detected by the temperature sensor generates changes according to the environment temperature and time variation, this signal is converted into an Analog index and transmitted to the connected fire alarm control panel in realtime. The fire alarm control panel periodically sends a signal to the CPU in the detector to check the temperature and status information of the detector, each detector has its own address through the address input device and transmits address-byaddress detector status information to the control panel. When reaching the fire threshold (temperature value) set in the fire alarm control panel, the detector's LED lights up to show the fire, the fire alarm control panel shows the location and the change over time of a specific smoke concentration value. In addition, waterproofing can reduce false alarms caused by vapor and condensate environments, and is capable of responding to scenes adjacent to the outside air.

FEATURE

- Enable 252 connected detectors per loop
- Waterproof product, Grade IP57
- Constantly detect concentration range for ambient temperature
- Generate alarms in stages by FACP setting program (pre-alarm 50°C, fire alarm 70°C)
- Minimize false alarm caused by condensation, dust...by applying film-type thermistor
- Possible to have separate detector fire testing without FACP and transponder panel
- Address setting: Electronic address entry method - Using address setting device (W3A)



SPECIFICATION

Model	D2AFW-70
KFI Approval No.	Gam 25-17
Description	DC28V, Analog type, General type, Restorable type, Water proof, Nominal sensing temperature range (60°C ~70°C)
KC Registration No.	R-R-GSF-D4IFS-70
Current Consumption	Monitoring 0.7mA, Operating 5mA
Operating Scope	60°C ~ 70°C
Communication Method	P-NET (Power Line Communication PLC), Polling Address method
Connect Quantity	Max 252 addresses/ loop
Communication distance	1.0km (Based on STP AWG 16/18)
Input Address	Electronic address entry method - Using address setting device (W3A)
Dimension	General Base: 110(Ø) x 45(D) mm
Weight	111g(General Base)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

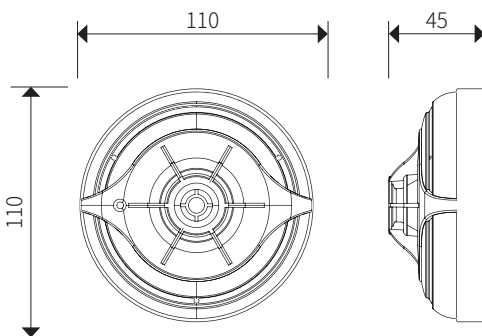
By integrating the highly sensitive thermistor, when it detects a sudden temperature change, detector will identify it as a fire and send a signal to the connected control panel.

In a fire, fire alarm signal is diagnosed by the temperature change rate of the Thermistor, thereby improving the errors caused by fake alarms. Through the built-in CPU Sleep function, the number of connected detectors per channel of the panel is also improved from 40 units to 60 units.

In addition, the waterproof feature minimizes fake fire alarms caused by vapor and condensate environments, and is capable of responding to scenes adjacent to the outside air.

FEATURE

- High- performance semiconductor sensor method
- Minimize false fire alarms
- Built-in CPU, connect to 60 devices per zone
- Waterproof (Grade IP57)



SPECIFICATION

Model	DCRW
KFI Approval No.	Gam 20-5
Description	DC24V, General Type, Restorable type, Water proof, Semiconductor type
KC Registration No.	R-R-GSF-DCRW
Input Voltage	DC24V $\pm$ 20%
Current Consumption	Monitoring 75 μ A or less, Operating 30mA or less
Operating Scope	Ambient Temperature of +30°C or more
Dimension	110(Ø) x 45(D) mm
Weight	110g (Base included)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

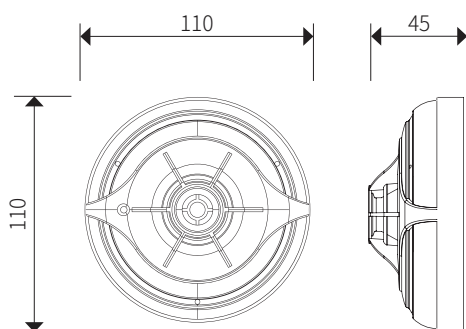
When the ambient temperature exceeds a certain temperature, the highly sensitive sensor Thermistor is activated and the fire alarm signal is sent to the control panel, which is installed where there is a large amount of fire such as a kitchen or a boiler.

The nominal operating temperature of the installation site must be at least 20 °C higher than the maximum ambient temperature. Through the built-in CPU Sleep function, the number of connected detectors per channel of the panel is also improved from 40 units to 60 units.

In addition, the waterproof feature minimizes fake fire alarms caused by vapor and condensate environments, and is capable of responding to scenes adjacent to the outside air.

FEATURE

- Suitable for locations where there is a lot of fire such as kitchen and boiled rooms
- High- performance semiconductor sensor method
- Minimize false fire alarms
- Built-in CPU, connect to 60 devices per zone
- Waterproof (Grade IP57)



SPECIFICATION

Model	DCFW-70
KFI Approval No.	Gam 20-6
Description	DC24V, 70°C, General Type, Restorable type, water proof, Semiconductor type
KC Registration No.	R-R-GSF-DCFW-70
Input Voltage	DC24V $\pm$ 20%
Current Consumption	Monitoring 15 μ A or less, Operating 30mA or less
Operating Scope	70°C
Dimension	110(Ø) x 45(D) mm
Weight	110g (Base included)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



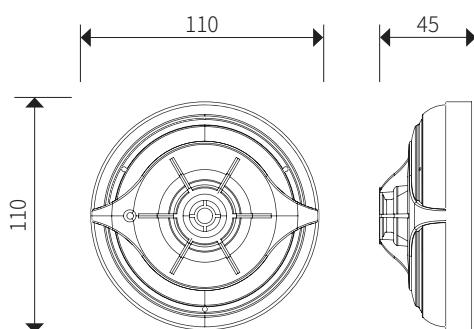
OVERVIEW

By integrating the highly sensitive thermistor, when it detects a sudden temperature change, detector will identify it as a fire and send a signal to the connected control panel.

In a fire, fire alarm signal is diagnosed by the temperature change rate of the Thermistor, thereby improving the errors caused by fake alarms. Through the built-in CPU Sleep function, the number of connected detectors per channel of the panel is also improved from 40 units to 60 units.

FEATURE

- High- performance semiconductor sensor method
- Minimize false fire alarms
- Built-in CPU, connect to 60 devices per zone
- Waterproof (Grade IP57)



SPECIFICATION

Model	D1CRS
KFI Approval No.	Gam 13-30-1
Description	DC24V, General Type, Restorable type, Semiconductor type
KC Registration No.	R-R-GSF-D1CRS
Input Voltage	DC24V $\pm$ 20%
Current Consumption	Monitoring 75 μ A or less, operating 30mA or less
Operating Scope	Ambient temperature + 30 °C or more
Dimension	110(Ø) x 45(D) mm
Weight	107g (Base included)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

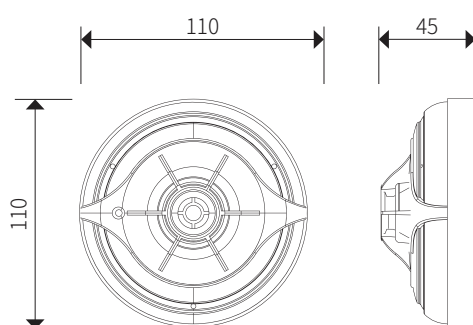
When the ambient temperature exceeds a certain temperature, the highly sensitive sensor Thermistor is activated and the fire alarm signal is sent to the central panel, which is installed where there is a large amount of fire such as a kitchen or a boiler.

The nominal operating temperature of the installation site must be at least 20 °C higher than the maximum ambient temperature.

Through the built-in CPU Sleep function, the number of connected detectors per channel of the panel is also improved from 40 units to 60 units.

FEATURE

- Suitable for locations where there is a lot of fire such as kitchen and boiled rooms
- High- performance semiconductor sensor method
- Minimize false fire alarms
- Built-in CPU, connect to 60 devices per zone
- Waterproof (Grade IP57)



SPECIFICATION

Model	D1CFS-70
KFI Approval No.	Gam 11-10-1
Description	DC24V, 70°C, Normal Type, Restorable type, Semiconductor type
KC Registration No.	R-R-GSF-D1CFS-70
Input Voltage	DC24V ± 20%
Current Consumption	Monitoring 15μA or less, Operating 30mA or less
Operating Scope	70°C
Dimension	110(Ø) x 45(D) mm
Weight	107g (Base included)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



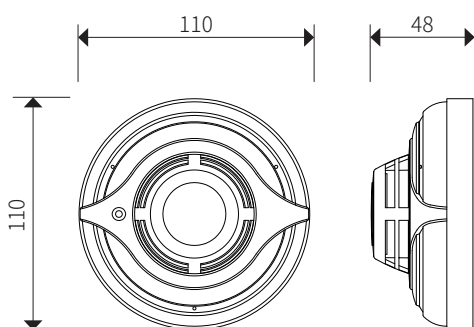
OVERVIEW

A photoelectric smoke detector is a device that works by detecting light diffused by smoke particles. When the smoke particles enter the detector's optical chamber by convection, the light beam from the infrared emitter is diffused by the smoke particles and reaches the optical sensor head and activate the alarm. Then the circuit will convert the infrared signal into an electrical signal. In the alarm state, the LED on the photoelectric smoke detector will light up and the signal will be transmitted to the fire alarm control panel.

Through the built-in CPU Sleep function, the number of connected detectors per channel is also improved from 20 units to 40 units.

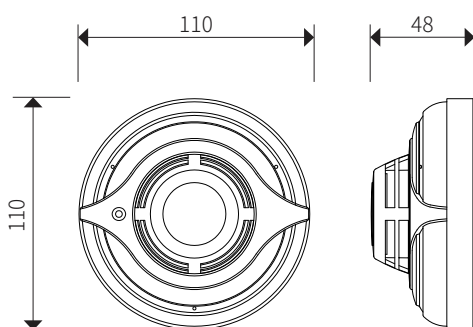
FEATURE

- Operate by change in scattered light in contact with the photoelectric element
- Minimize false fire alarms
- High- performance semiconductor sensor method (IR + Photo Diode)
- Build-in CPU, connect to 40 devices per zone
- Features moisture resistance.



SPECIFICATION

Model	D1CPS
KFI Approval No.	Gam 11-6-1
Description	DC24V, General type, Restorable type
KC Registration No.	R-R-GSF-D1CPS
Input Voltage	DC24V $\pm$ 20%
Current Consumption	Monitor 300 μ A or less, Operating 30mA or less
Operating scope	15%/m or more
Dimension	110($\varnothing$) x 48(D) mm
Weight	117g (Base included)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



FEATURE

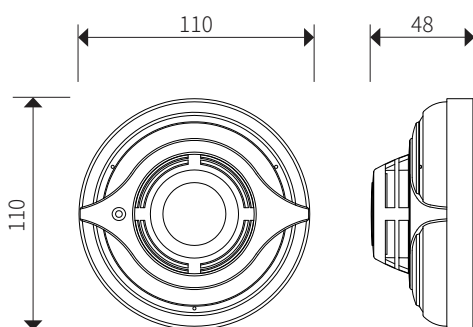
- Enable 250 connected detectors per loop
- Constant detection of ambient temperature
- Minimizes non-fire alarm caused by condensation, dust, etc. by applying film type thermistor
- Address setting: Address input device (1-252)
- High-performance semiconductor sensor method
- Waterproof product

SPECIFICATION

Model	D3TRW
KFI Approval No.	Gam 22-16
Description	DC 24 V, 2 types, General type, Restorable type, Waterproof type,
KC Registration No.	R-R-GSF-D1CPS
Current Consumption	Monitoring 0.7mA, Operating 5mA
Operating scope	Ambience Temperature of +30℃ or more
Communication Method	QP-NET (PLC), Polling Address method
Connectable Quantity	Max 250 detectors/ loop
Communication distance	1.0km (Based on STP AWG 16/18)
Input Address	Using address setting device
Connectable Devices	Use only with Redbox (F3RVE-02)
Dimension	General Base: 110(Ø) x 45(D) mm
Weight	110g (Including Base)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10℃ ~ 50℃ / 0% ~ 95% RH

WATERPROOF ADDRESSABLE FIXED TEMPERATURE HEAT DETECTOR

D3TFW-70

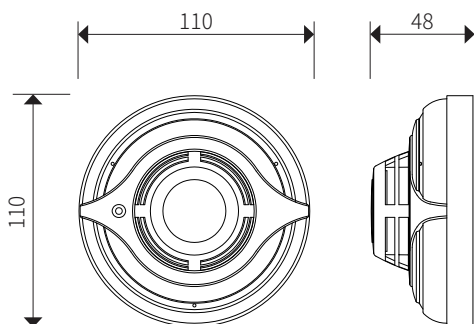


FEATURE

- Enable 250 connected detectors per loop
- Constant detection of ambient temperature
- Minimizes non-fire alarm caused by condensation, dust, etc. by applying film type thermistor
- Address setting: Address input device (1-252)
- High-performance semiconductor sensor method
- Suitable for locations where there is a lot of fire, such as kitchens and boiler rooms
- Waterproof product

SPECIFICATION

Model	D3TFW-70
KFI Approval No.	Gam 22-8
Description	DC 24 V, Special type, 70 ℃, Normal type, Restorable type, Waterproof type, Semiconductor method
KC Registration No.	R-R-GSF-D3TFW-70
Current Consumption	Monitoring 0.7mA, Operating 5mA
Operating scope	70 ℃ or more
Communication Method	QP-NET (PLC), Polling Address method
Connectable Quantity	Max 250 detectors/ loop
Communication distance	1.0km (Based on STP AWG 16/18)
Input Address	Using address setting device
Connectable Devices	Use only with Redbox (F3RVE-02)
Dimension	General Base: 110(Ø) x 45(D) mm
Weight	110g (Including Base)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10℃ ~ 50℃ / 0% ~ 95% RH

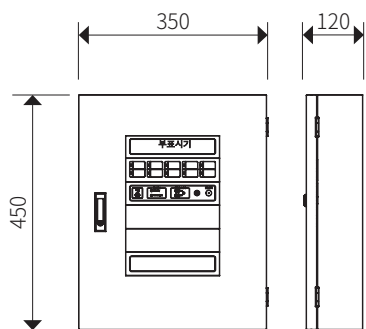


FEATURE

- Enable 250 connected detectors per loop
- Constant detection of ambient smoke concentration
- Operates by changes in scattered light in contact with the photoelectric element
- Address setting: Address input device (1-252)
- High-performance semiconductor sensor method (IR+Photo Diode)
- Minimize non-fire alarms

SPECIFICATION

Model	D3TPS
KFI Approval No.	Gam 22-9
Description	DC 24 V, 2 types, General type, Restorable type
KC Registration No.	R-R-GSF-D3TPS
Current Consumption	Monitoring 0.7mA, Operating 5mA
Operating scope	15%/m or more
Communication Method	QP-NET (PLC), Polling Address method
Connectable Quantity	Max 250 detectors/ loop
Communication distance	1.0km (Based on STP AWG 16/18)
Input Address	Using address setting device
Connectable Devices	Use only with Redbox (F3RVE-02)
Dimension	General Base: 110(Ø) x 49(D) mm
Weight	120g (Including Base)
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

Annunciator is a device installed in small and medium-sized projects, indicating the area of fire through the LED display device on the front of the cabinet thanks to the loop circuit.

FEATURE

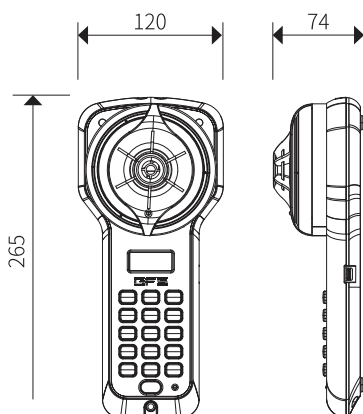
- 10 LED windows
- Connect phone to control panel
- Buzzer activates upon fire detection

SPECIFICATION

Model	FAWW
Input Voltage	24VDC $\pm$ 20%
Display method	LED display (fire area)
Communication Method	P-NET (Built-in circuit, Polling Address)
Dimension (WxHxD)	350(W) x 450(H) x 120(D) mm
Weight	16.7kg for 10 circuits / 7kg for 20 circuits / 8.8kg for 30 circuits
Color	Beige (5Y 7/1)
Material	Steel 1.2mm
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

GFS ADDRESS SETTING TOOL

W3A



OVERVIEW

Address setting tool (W3A) is a device that can enter and confirm the address of a detector electronically instead of using an existing mechanical switch. It has a built-in function that allows not only entering the address of the detector manually via P-NET (power line communication), but also automatically entering the address of the detector even when the detector is changed. In addition, it is possible to diagnose the module failure and check the condition of the signal line.

FEATURE

- Auto Address Mode
- External power can be used via USB-C type
- Diagnose module fault and check status
- Check communication line status

SPECIFICATION

Model	W3A
KC Registration No.	R-R-GSF-W3A
Operating Voltage	External: DC5V / 2A (USB-C Type) Internal: Battery (AAA x 4)
Communication Method	P-NETPLC Power Line Communication
Dimension (WxHxD)	120(W) x 265(H) x 74(D) mm
Weight	520g
Color	White
Material	ABS
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

In case of signal problem such as short circuit of the addressable detector line connected to the loop line of the addressable fire alarm control panel and module panel, this device will isolate the fault part and ensure the stability of all system.

FEATURE

- Short-circuited signal line monitoring
- Recover automatically
- Able to install up to 15 bases per loop

SPECIFICATION

Model	DBI
Input Voltage	DC24V ± 20%
Current consumption	1.5mA
Communication Method	P-NET (Power Line Communication)
Connectable quantity	Able to install max 15 bases per loop
Dimension	126(Ø) x 23 mm
Weight	102g
Color	White
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

Regular detector base that can be attached to all types of detectors.

SPECIFICATION

Model	DB
Dimension	110(Ø) x 12.5 mm
Weight	35g
Color	White
Material	PC Fire Retardant V2

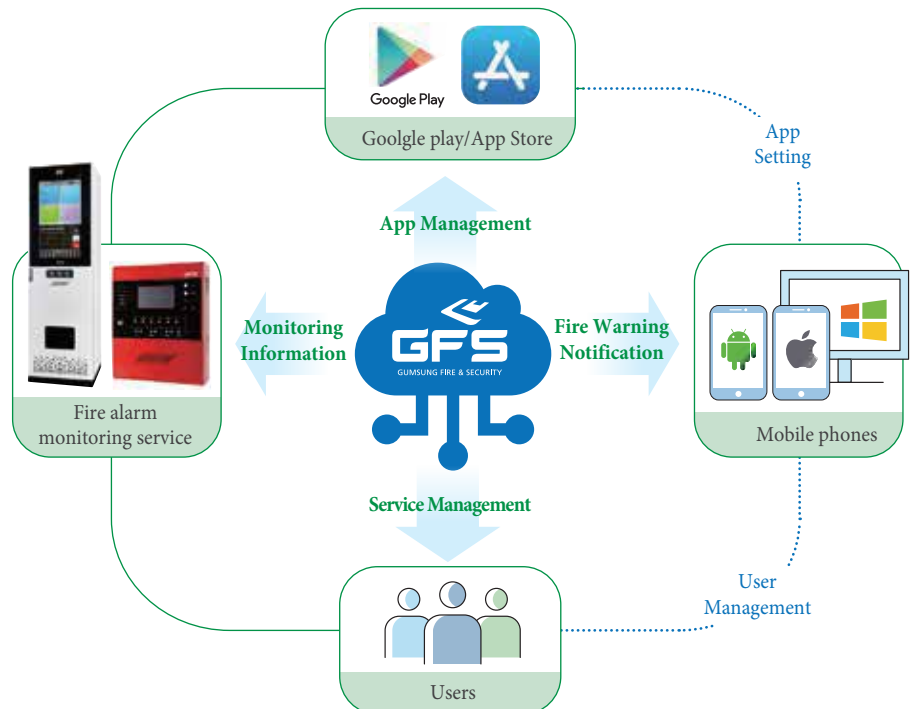
FIRE ALARM CONTROL CENTER

GFS MOBILING SYSTEM INTRODUCTION

GFS Mobile System is a service that provides real-time monitoring of fire alarm systems via mobile phones.

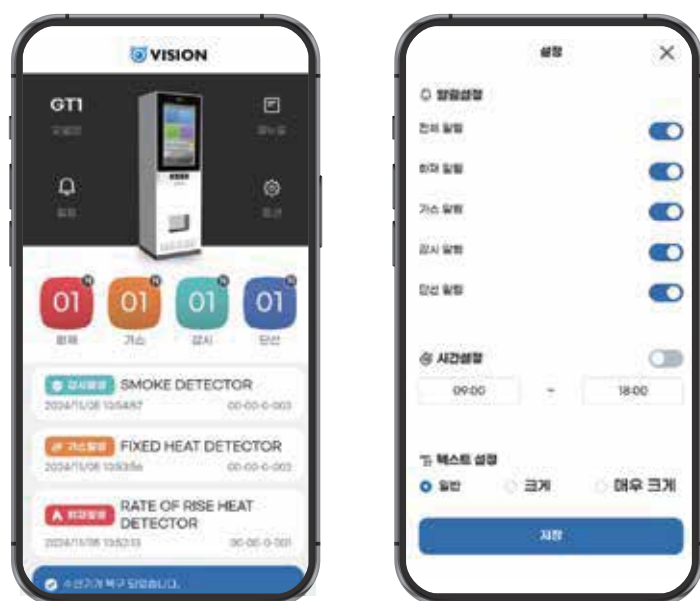
You can install GFS Mobile App at Google Play and App Store, and you can receive real-time notification of fire / gas / monitoring / disconnection through GFS's unique system not only in fire alarm system monitoring control room but anywhere.

Currently, GFSM 3.0 has been developed to respond to Android 6.0 and IOS 13.4 and above environments.



DISPLAY SCREEN

- ▶ Users can set alarm type and time
- ▶ Display the number of currently occurring events
- ▶ Enable to set text size
- ▶ Enable to scroll and view the alert table of contents, the previous item is added when scrolling to the bottom
- ▶ Enable to download user manual



GDS IMPLEMENTATION

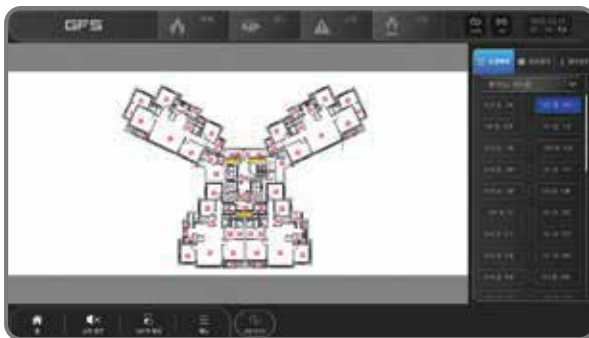
- ▶ Easily manage fire alarms through schematic diagrams and ground plans thanks to the LCD display
- ▶ Two screens can be monitored and controlled thanks to the LCD display and the DESK control screen



Monitor screen for each building



Overall layout screen



Monitor screen 1 for each floor



Monitor screen 2 for each floor



Zoom into the affected area when an event occurs

FIRE APPLIANCES



OVERVIEW

Manual station set is composed of a combination of push buttons mounted on the housing of manual station set, which is manually pressed by the fire detector when a fire is detected, thereby transmitting a fire status notification signal to the control room, sound alarm by bell and display position by indicator light

FEATURE

- Represent the fire inspector's eyes and pupils
- Design in harmony with the interior

SPECIFICATION

Model	APBL
Input Voltage	DC24V±20%
Dimension (WxHxD)	Exposed type 250(W) x 650(H) x 95(D)/mm Recessed type Cover 250(W) x 650(H) x 20(D)/mm Recessed type BOX 200(W) x 600(H) x 80(D)/mm
Color	Silver
Material	SUS 1.0mm/ Steel 1.2mm
Usage Temperature	-10°C ~ 50°C
Relative Humidity	10% ~ 95%RH
Composition	Manual station, bell, pilot lamp

MANUAL STATION (4 terminals)

ACBR-04



OVERVIEW

When a fire occurs, by pressing the manual station, the fire signal is transmitted to the addressable fire alarm control panel through the connected module, the fire alarm control panel receiving the signal will output a feedback signal to the manual station, light up the manual station LED and send out the fire alarm signal to the alarm bell installed in the protected area.

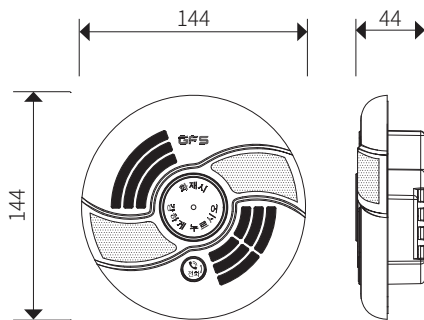
If it is a conventional fire alarm control panel, the fire signal is directly connected by the input circuit of the central panel and performs uniform operation. In addition, it is possible to talk to the fire alarm control panel through the phone jack in the manual station.

FEATURE

- Featured with a design that visualizes a fire inspector's eyes
- 4-terminal transmitter (fire, response, common, telephone line)

SPECIFICATION

Model	ACBR-04
KFI Approval No.	Bal 17-2
Description	Alarm button: DC24V, indoor type/ alarm light: DC24V, LED
Input Voltage	DC24V ± 20%
Terminal	4 terminals
Dimension	145(Ø) x 46(D) mm
Weight	140g
Color	Red
Material	PC
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

When a fire occurs, by pressing the alarm button, the signal is transmitted to the addressable control panel through the connected module, the control panel will output a feedback signal to the manual station and light the LED and send out the signal to the alarm bell installed in the protected area.

If it is a conventional control panel, the fire signal is directly connected by the input circuit of the control panel and operate identically. In addition, it is possible to communicate with the control panel via the phone jack in the manual station.

FEATURE

- Featured with a unique design, inspired by the symbol of the Tai Chi flag
- 4 Terminal push button (fire alarm, response, phone line)
- Towards convenience through the combination of light into fire alarm button

SPECIFICATION

Model	A1PL-04
KFI Approval No.	Bal 24-3
Description	Alarm button: DC24V, indoor type/ alarm light: DC24V, LED
Input voltage	DC24V $\pm$ 20%
Terminal	4 terminals
Dimension	144(Ø) x 44(D) mm
Weight	206g
Color	Red
Material	PC
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

INDICATOR LAMP

V2CLR



OVERVIEW

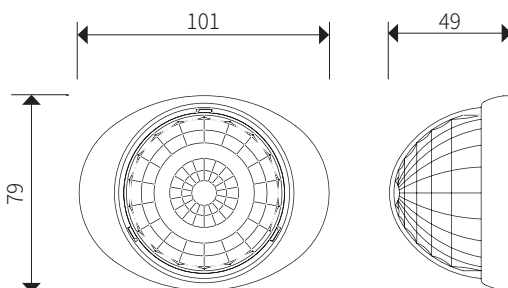
Indicator lamp is a device that displays the position of the manual station, installed in the manual station set or the fire alarm control panel with the fire alarm bell. When a fire occurs, the position of the manual station can be detected by the indicator lamp, if the button is pressed by hand, it can activate the fire alarm and extinguishing devices. Fire alarm lamp shall be red to indicate the normal operating lamp status and the mounting surface shall be installed in a position that can be easily distinguished.

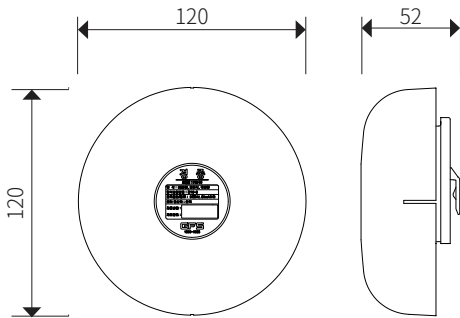
FEATURE

- Featured with a design that visualizes a fire inspector's eyes
- High-brightness LED with semi-permanent usability
- Diamond-shaped light diffusion

SPECIFICATION

Model	V2CLR
KFI Feature Approval No.	Pyosi 24-10
Description	DC24V, LED, indoor type
Color	Red
Input Voltage	24VDC $\pm$ 20%
Current Consumption	50mA or less
Brightness	15 Degrees on Attached Surface / Visible from 10m
Dimension (WxHxD)	101(W) x 79(H) x 49(D) mm
Weight	50g
Material	Cover : PC, Base : ABS Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH





OVERVIEW

Fire alarm bell indicates the occurrence of a fire by sound if the fire signal is transmitted to the fire alarm control panel from the detector's sensor or from the manual station. If current is passed, the small electric motor rotates, the rod connected to the cam installed in the motor shaft vibrates and hits the inside of the bell, causing a sound. This sound must be above 90dB from a position 1m away from the device attached to this sound.

FEATURE

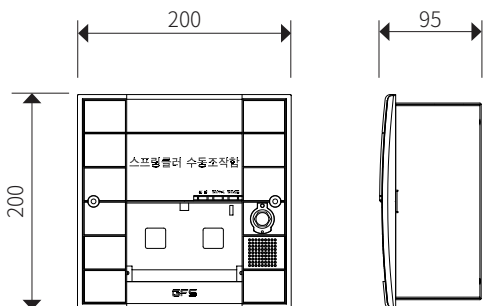
- Durable material (Aluminum die-casting)
- Use minimum amount of current
- Simple installation a fire hydrant with its minimum outside diameter (120mm)

SPECIFICATION

Model	B1R-90
KFI Approval No.	Gyeong 19-2/ Gyeong 10-18-1
Description	DC 24V, Motor type, 50mA or Less
Input Voltage	DC24V $\pm$ 20%
Current Consumption	50mA or less
Dimension	120(Ø) x 52(D) mm
Weight	222g
Color	Red
Material	AL
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

MANUAL RELEASE STATION (SPRINKLER SYSTEM)

S3SS / S3SF



OVERVIEW

Sprinkler manual release station is a device that activates the sprinkler system manually when a fire occurs. The sprinkler manual release station is divided into exposed and embedded types, in addition, the device offers a superior premium design that is suitable for interiors in modern buildings.

FEATURE

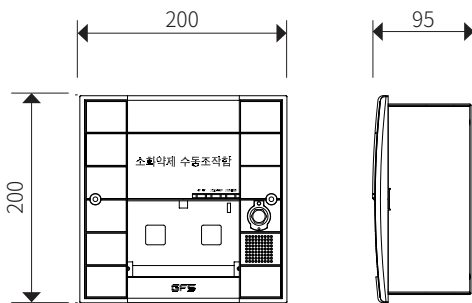
- Respond to normal type and addressable type systems
- Enable repeater to be built-in
- LED Display: Power, caution valve, open valve
- Optimal design for building interiors

SPECIFICATION

Model	S3SS	S3SF
Structure	Exposed type	Recessed type
Input Voltage	DC24V $\pm$ 20%	
Current Consumption	60mA or less	
Malfunction prevention	Double Protective Cover	
Dimension (WxHxD)	BOX: 200(W) x 200(H) x 70(D) mm	COVER: 200(W) x 200(H) x 15(D) mm BOX: 184(W) x 184(H) x 80(D) mm
Weight	1.335kg	1.454kg
Color	Red	
Material	ABS Fire Retardant, PC Fire Retardant (V2)	
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH	

MANUAL RELEASE STATION (GAS EXTINGUISHING SYSTEM)

S3GS / S3GF



OVERVIEW

Exhaust manual release station is a device that activates gas extinguishing system when there is a fire and is installed outside the door to the area.

Manual release stations are divided into exposed and embedded type, and the device offers a superior premium design that is suitable for modern building interiors.

FEATURE

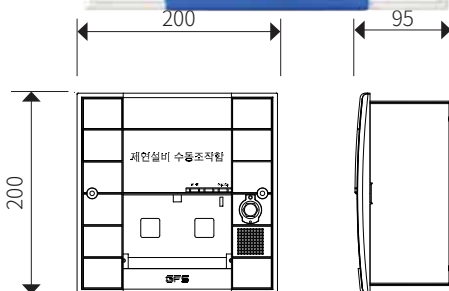
- Respond to normal type and addressable type systems
- Optimal design for building interiors
- Enable repeater to be built-in
- LED Display: Power, Operation check, Gas release

SPECIFICATION

Model	S3GS	S3GF
Structure	Exposed type	Recessed type
Input Voltage	DC24V $\pm$ 20%	
Current Consumption	60mA or less	
Malfunction prevention	Double Protective Cover	
Dimension (WxHxD)	BOX: 200(W)x200(H)x70(D)mm	COVER:200(W) x 200(H) x 15(D) mm BOX:184(W) x 184(H) x 80(D) mm
Weight	1.308kg	1.427kg
Color	Dark yellow	
Material	ABS Fire Retardant, PC Fire Retardant (V2)	
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH	

MANUAL STATION (SMOKE DAMPER SYSTEM)

S3DS / S3DF



OVERVIEW

Manual station is designed to operate smoke control dampers during a fire to prevent the spread of smoke.

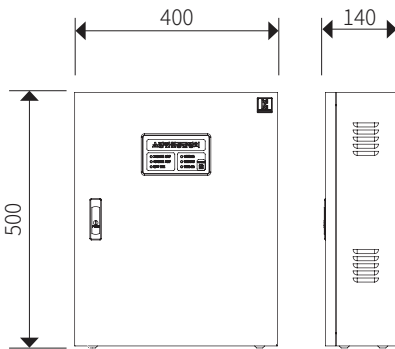
Manual release stations are divided into exposed and embedded type, and the device offers a superior premium design that is suitable for modern building interiors.

FEATURE

- Respond to normal type and addressable type systems
- Optimal design for building interiors
- LED Display : Power, Manual operation
- Optimal design for building interiors

SPECIFICATION

Model	S3DS	S3DF
Structure	Exposed type	Recessed type
Input Voltage	DC24V $\pm$ 20%	
Current Consumption	60mA or less	
Malfunction prevention	Double Protective Cover	
Dimension (WxHxD)	BOX: 200(W)x200(H)x70(D)mm	COVER:200(W) x 200(H) x 15(D) mm BOX:184(W) x 184(H) x 80(D) mm
Weight	1.325kg	1.444kg
Color	Blue	
Material	ABS Fire Retardant, PC Fire Retardant (V2)	
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH	



OVERVIEW

The booster power supply is used to solve problems such as the limitation of maximum electric power load in the DC24V output power of the fire alarm control panel and transponder panel, the voltage drop due to the line distance between devices in the fire alarm system.

In addition, the fire equipment operates normally by applying the separate power supply to the system.

FEATURE

- Produce high-efficiency and stable constant voltage output by SMPS method
- Built-in an over-power and overheating protection circuit
- Minimized standby power switching time (within 30ms)
- Built-in an overcharge and overdischarge protection circuit for standby power
- Send a message to control panel in case of failure
- Detachable terminal block design improves workability and A/S service quality.
- Built-in output voltage adjustment switch (DC24V ~ DC27V)

SPECIFICATION

Model	P-20A
KC Registration No.	R-REM-GSF-P-20A
Input Voltage	AC220V, 50/60Hz
Standby Power	DC24V / 7Ah, Lead-acid Battery (DC12V / 7Ah X 2 sets)
Current Consumption	DC24V / 20A or less
Output Variable	DC24V / DC26V / DC27V
Protection Circuit	Protection from Overcharge / Overdischarge
Dimension (WxHxD)	400(W) x 500(H) x 140(D) mm
Weight	13.2kg
Color	Beige (5Y 7/1)
Material	Steel 1.2mm
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



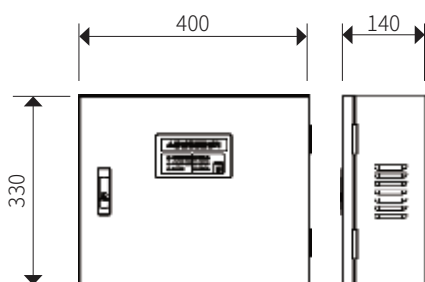
OVERVIEW

The booster power supply is used to solve problems such as the limitation of maximum electric power load in the DC24V output power of the fire alarm control panel and transponder panel, the voltage drop due to the line distance between devices in the fire alarm system.

In addition, the fire equipment operates normally by applying the separate power supply to the system.

FEATURE

- Produce high-efficiency and stable constant voltage output by SMPS method
- Built-in an over-power and overheating protection circuit
- Minimized standby power switching time (within 30ms)
- Built-in an overcharge and overdischarge protection circuit for standby power
- Connect to module and send a message to control panel in case of failure
- Built-in PFC (power factor correction) circuit



SPECIFICATION

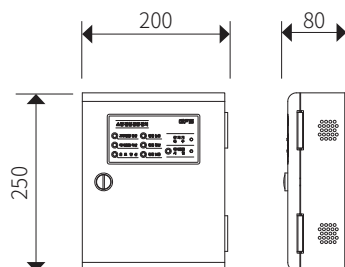
Model	P1-15	P1B-15
KC Registration No.	R-R-GSF-P1B-15	
Input voltage	AC220V, 50/60Hz	
Standby power	DC24V / 4Ah, Lead-acid Battery (DC12V / 4Ah X 2)	DC24V / 7Ah, Lead-acid Battery (DC12V / 7Ah X 2)
Current consumption	DC24V / 15A or less	
Protection circuit	Protection from Overcharge / Overdischarge	
Dimension (WxHxD)	400(W) x 330(H) x 140(D) mm	
Weight	9.5 Kg	
Color	Beige (5Y 7/1)	
Material	Steel 1.2mm	
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH	



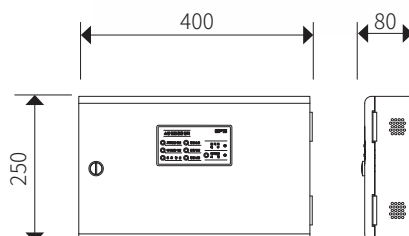
[P-05]



[PR-05]



[PC-05]



OVERVIEW

The booster power supply is use to solve problems such as the limitation of maximum electric power load in the DC24V output power of the fire alarm control panel and transponder panel, the voltage drop due to the line distance between devices in the fire alarm system.

In addition, the fire equipment operates normally by applying the separate power supply to the system.

FEATURE

- Produce high-efficiency and stable constant voltage output by SMPS method
- Built-in an over-power and overheating protection circuit
- Built-in an overcharge and overdischarge protection circuit for standby power
- Send a message to control panel in case of failure
- Enable selection according to configuration
 - P-05 : Basic type
 - PR-05 : Built-in detector recovery button (uses a flame detector, etc.)
 - PC-05 : Expansion inclusion body (repeater, other modules, etc. can be installed inside)

SPECIFICATION

Model	P-05	PR-05	PC-05
KC Registration No.	R-R-GSF-PC-05		
Input Voltage	AC 220V / 60Hz		
Stanby power	DC24V / 900mAh, Ni-Cd		
Current Consumption	DC24V / 5A or less		
Protection Circuit	Protection from Overcharge / Overdischarge		
Dimension (WxHxD)	200(W) × 250(H) × 80(D)mm		400(W) × 250(H) × 80(D)mm
Weight	2.6kg	2.6kg	4kg
Color	Beige(basic)/ Other color		
Material	Steel 1.2mm		
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH		
Characteristics	• Detector recovery button	• Integral repeater box • Detector recovery button	



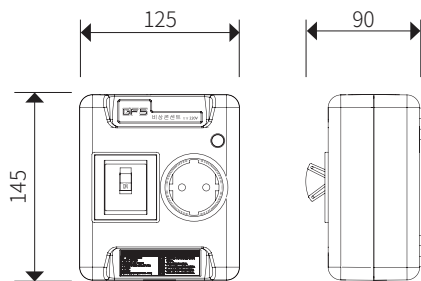
OVERVIEW

Emergency power outlet is a device that connects the power supply to operate the equipment necessary for fire fighting operations in the building when there is an emergency such as a fire and can connect to a single-phase AC220V backup power supply.

The device uses self-extinguishing synthetic resin of 3mm or more and includes a grounding outlet, a circuit breaker and a power indicator light. The device is classified into 2.5kA and 5kA according to the product's allowable output power, and has obtained KFI certification.

FEATURE

- Robust enclosure made of self-extinguishing material
- Single phase 220V emergency power supply
- Rated insulation voltage 500V



SPECIFICATION

Model	EW-25
KFI Feature Approval No.	Bicon 25-1
Description	Single phase AC220V, Storage type, 15A
Input Voltage	AC220V, 50/60Hz
Breaking current	2.5KA
Dimension (WxHxD)	125(W) x 145(H) x 90(D) mm
Weight	426g
Color	White
Material	ABS Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH
Component	Circuit breakers, sockets, power

FIRE PHONE HANDSET

KA - 119B



OVERVIEW

Accessory allows two-way communication between areas and the fire control room. The device is equipped with a standard jack that can connect to most fire phone sockets.

- Components: Handset, call button, coiled cord, mono plug.

SPECIFICATION

Dimension	215mm(L) x 65mm(W) x 75mm(H)
Weight	About 250g
Color	Black
Material	PC
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

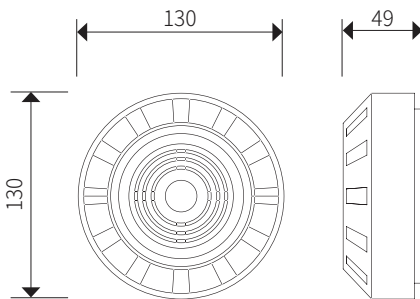


OVERVIEW

Electronic sirens are often installed in sprinkler fire fighting systems, gas extinguishing systems. The device warns and indicates the arising of a fire when the detector or the fire fighting device acts, vibrates a certain frequency and affects the loudspeaker. The volume must be above 90dB at a distance of 1m around the installed audio equipment.

FEATURE

- Simple installation with the same base type as detector base



SPECIFICATION

Model	B3W-90
Input Voltage	DC24V $\pm$ 20%
Current Consumption	80mA or less
Volume	90dB or More (From 1m)
Dimension	130(Ø) x 49(D) mm
Weight	343g (Base included)
Color	Milky White
Material	ABS Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

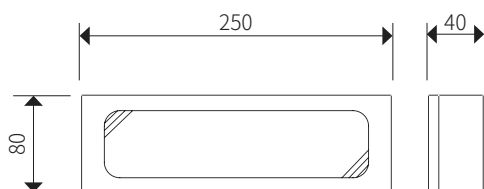
Gas release lamp is a warning device that prohibits entering the protected area where a fire is happening by lighting up the light and displaying GAS RELEASE thanks to the interlocking pressure in the tool box when the extinguishing agent is discharged due to the action of manual station or due to the intersection method A B of two detectors when a fire occurs.

FEATURE

- Lights on when discharging the extinguishing agent
- Clear light: LED light display device

SPECIFICATION

Model	VGE
KC Registration No.	MSIP-REM-sym-SY-5003
Input Voltage	DC24V $\pm$ 20%
Current Consumption	60mA
Dimension (WxHxD)	250(W) X 80(H) X 40(D) mm
Weight	436g
Color	Red
Material	Steel 1.2mm Electrostatic paint
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



REMOTE INDICATOR

VRD



OVERVIEW

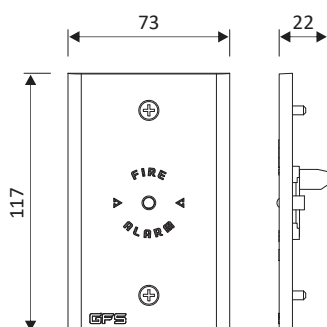
Remote Indicators are designed to be connected to detectors which are not normally accessible. The purpose of the remote indicator is to indicate to the occupants of the building that an inaccessible detector on the fire alarm system has been activated. Upon activation the Red Led indicator on the front of the Remote Indicator will illuminate to show that a particular detector has been activated.

FEATURE

- Easy to identify detector that detect the fire
- Easy to check the operating status of the detector from the Led
- Waterproof

SPECIFICATION

Model	VRD
Input Voltage	DC24V $\pm$ 20% (Non polar)
Dimension (WxHxD)	73(W) x 117(H) x 22(D) mm
Weight	40g
Material	PC White, flame retardant UL - V2 or more
Connectable device	Nomal Detector
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH





OVERVIEW

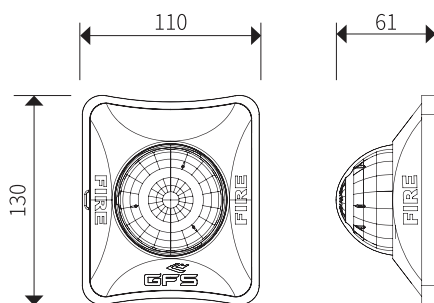
Remote Indicators are designed to be connected to detectors which are not normally accessible. The purpose of the remote indicator is to indicate to the occupants of the building that an inaccessible detector on the fire alarm system has been activated. Upon activation the Red Led indicator on the front of the Remote Indicator will illuminate to show that a particular detector has been activated.

FEATURE

- Easy to identify detector that detect the fire
- Easy to check the operating status of the detector from the Led
- Sturdy design, utilizes a switch box.

SPECIFICATION

Model	VRDA
Input Voltage	73(W) x 117(H) x 23.6(D) mm
Dimension (WxHxD)	45g
Weight	PC White, flame retardant V2
Material	DC24V $\pm$ 20% (Non polar)
Connectable device	Adressable Detector
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

STROBE
(SYNCHRONIZED/ ASYNCHRONIZED)B2SLR-45 / B2SLW-45
B2NLR-45 / B2NLW-45

OVERVIEW

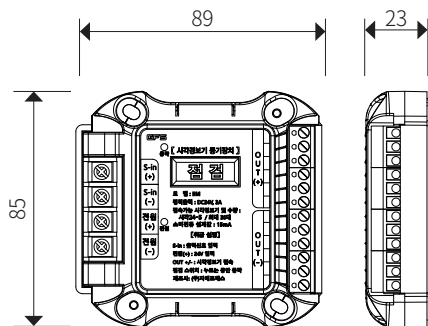
Strobe is a part of an automatic fire alarm system connected to a fire alarm control panel, when a fire occurs, the light flashes from 1 to 3 times per second to notify even the deaf to come to the safe evacuation area.

FEATURE

- Design to suit the surrounding space
- Use high-intensity LED
- Strong flash of 45 candela appears in case of fire
- Simple installation with non-polar terminal power supply

SPECIFICATION

Model	B2SLR-45	B2SLW-45	B2NLR-45	B2NLW-45
KC Registration No.	Sigak 24-5		Sigak 18-1	
Description	DC24V, Synchronous, LED		DC24V, Asynchronous, LED	
Input Voltage	DC24V ± 20% (Non-polar)			
Current Consumption	54mA (Max 103mA)			
Cycle	Blinks 1.17 times per second			
Brightness	45cd (0°), 58cd (45°), 14cd (90°)			
Dimension (WxHxD)	110(W) x 130(H) x 61(D) mm			
Weight	119 g (Synchronized)		122g (Unsynchronized)	
Color	Red	White	Red	White
Material	PC Fire Retardant V2			
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH			



OVERVIEW

Strobe synchronization module is a device that synchronizes the strobe rhythm when a fire occurs

Users will find it difficult to exit because there are too many signals emitted from each fire alarm device, so this device is used to synchronize the strobe rhythm, improve safety efficiency so that users can maintain calm and exit safely.

FEATURE

- Enable to connect with up to 30 visual alarm devices
- Support 6 visual alarm connection terminals

SPECIFICATION

Model	BM
Input Voltage	DC24V $\pm$ 20%
Rated Output	DC24V Max 3A
Cycle	Blinks 1.2Hz
Connectable Quantity	Connect with up to 30 Visual Alarm Devices Per Unit
Dimension (WxHxD)	89(W) x 85(H) x 23(D) mm
Weight	107g
Color	White Case, Yellow Sticker
Material	PC
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

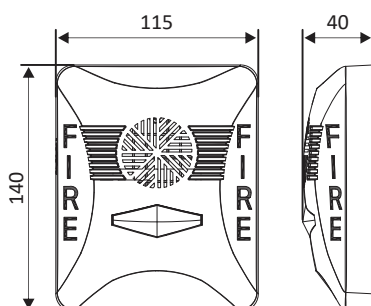
Horn & Strobe is a device that emits a strobing light and release a noise 1 to 3 times per second in case of fire to quickly send out warning signals to evacuees and the blind & deaf.

Installation locations :

- ① Corridor, passageway, guest room
- ② Guest rooms for public use : Lobby, Meeting room, classroom, restaurant, lounge, game room, waiting room, training room, reception room and other similar locations
- ③ Stage areas where most eyes are focused such as concert hall, meeting hall or similar locations

SPECIFICATION

Model	B5VLR
Dimension (WxHxD)	115(W) × 140(H) × 40(D) mm
Weight	154g
Input Voltage	DC 24V ± 20% (Non-polar)
Operating current	Setting to 15cd : 40mA Setting to 75cd : 110mA Setting to 110cd : 230mA
Brightness	15cd / 75cd / 110cd
Volume	Max Standard : 80dB or more
Flashing cycle	1.4Hz
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH
Installation height	2m or more 2.5m or less from the floor



ADDRESSABLE MANUAL CALL POINT

AAVF-04



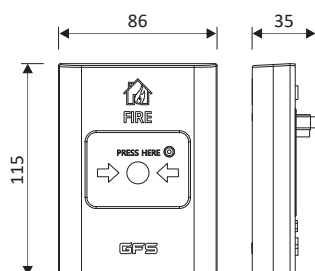
OVERVIEW

Converts the operation signals by electric contacts such as detectors and manual station into digital signals and transmits them to the Fire alarm control panel.

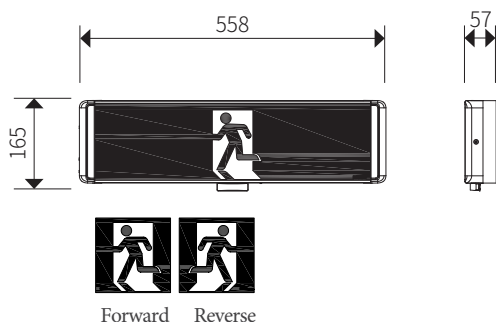
Process the digital signals received from the FAWP and controls the output equipment

SPECIFICATION

Model	AAVF-04
Dimension	86(W) x 115(H) x 35(D) mm
Weight	140g
Input voltage	DC 24V ± 20% (No)
Color	RED
Operating environment	-10°C ~ 50°C / 0% ~ 95% RH
Communication method	QP-NET (Power line communication), Polling Address
Compatible devices	GR Type System
	F3G / T3G-40
	G1GL(A,B)-##
	G1GL(E,F)-##



EXIT LIGHT



OVERVIEW

Sound-on-off exit light is an exit device installed at the exit door or exit, with built-in overcurrent and overvoltage protection circuitry. Exit light has a backup battery that is automatically charged under normal circumstances, when the power goes out the light can turn on for 120 minutes.

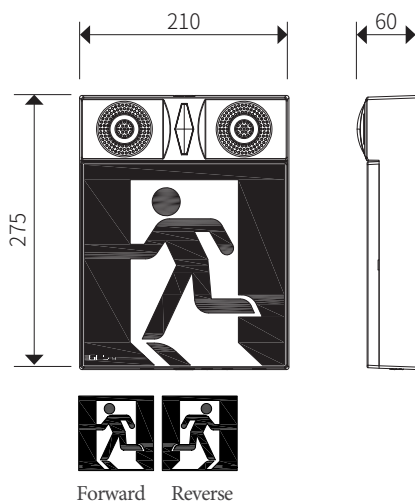
Exit light uses high-intensity LED, which is harmoniously suitable for all modern spaces that value interiority and has excellent visibility thanks to its optimal and balanced brightness.

FEATURE

- Use high-intensity LED
- Smallest vertical size in its class
- Adoption of a light guide panel for uniform brightness
- SLIM BEZEL DESIGN
- Enable 3-level volume control with a switch

SPECIFICATION

Model	L2EWW-13
KFI Approval No.	Yu 21-64-1
Description	AC220V, DC 4.8 V, For evacuation, medium size, wall-mounted, LED, single-sided, valid lighting time for 120 minutes, voice/flashing guidance device, combined use of voice/strobe device
KC Registration No.	R-R-GSF-L2EWW-13
Input Voltage	AC220V, 50/60Hz
Standby Power	DC 4.8V / 600mAh, Ni-Cd
Current Consumption	4W
Current Consumption (Voice Emitting)	300mA
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	558(W) × 165(H) × 57(D) / mm
Weight	2.4kg
Material	Body : Steel 0.8mm/ Side Cover: PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

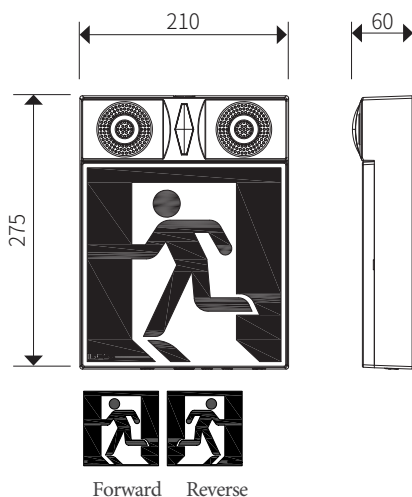
Sound-on-off exit light is an exit device installed at the exit door or exit, with built-in overcurrent and overvoltage protection circuitry. Exit light has a backup battery that is automatically charged under normal circumstances, when the power goes out the light can turn on for 120 minutes. Exit light uses high-intensity LED, which is harmoniously suitable for all modern spaces that value interiority and has excellent visibility thanks to its optimal and balanced brightness.

FEATURE

- Can be mounted on the upper left or right wall above an entrance door
- Compatible with both horizontal and vertical orientations (display direction can be switched)
- Ceiling installation possible with optional bracket (sold separately)
- Enable 3-level volume control with a switch
- Emphasizes user-friendly operation with simple controls
- A design inspired by the owl (a watcher/observer)
- Built-in protection circuit for overvoltage and overcurrent

SPECIFICATION

Model	L2EMW-12
KFI Approval No.	Yu 23-123
Description	AC220V, DC 3.6V, For evacuation, medium size, wall-mounted, LED, single-sided, valid lighting time for 120 minutes, voice/ flashing guidance device, combined use of voice/strobe device
KC Registration No.	R-R-GSF-L2EMW-12
Input Voltage	AC220V
Standby Power	DC 3.6V / 600mAh, Ni-Cd
Current Consumption	4W / 300mA (Voice Emitting)
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	210(W) × 275(H) × 60(D)mm
Weight	0.8kg
Material	PC
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

Sound-on-off exit light is an exit device installed at the exit door or exit, with built-in overcurrent and overvoltage protection circuitry. Exit light has a backup battery that is automatically charged under normal circumstances, when the power goes out the light can turn on for 120 minutes. Exit light uses high-intensity LED, which is harmoniously suitable for all modern spaces that value interiority and has excellent visibility thanks to its optimal and balanced brightness.

FEATURE

- Can be mounted on the upper left or right wall above an entrance door
- Compatible with both horizontal and vertical orientations (display direction can be switched)
- Ceiling installation possible with optional bracket (sold separately)
- Enable 3-level volume control with a switch
- Emphasizes user-friendly operation with simple controls
- A design inspired by the owl (a watcher/observer)
- Built-in protection circuit for overvoltage and overcurrent

SPECIFICATION

Model	L2ESW-12
KFI Approval No.	Yu 24-78
Description	AC220V, DC 3.6V, For evacuation, small size, wall-mounted, LED, single-sided, valid lighting time for 120 minutes, voice/ flashing guidance device, combined use of voice/strobe device
KC Registration No.	R-R-GSF-L2EMW-12
Input Voltage	AC220V
Standby Power	DC 3.6V / 600mAh, Ni-Cd
Current Consumption	2W / 300mA (Voice Emitting)
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	210(W) × 275(H) × 60(D) / mm
Weight	0.8kg
Material	PC
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

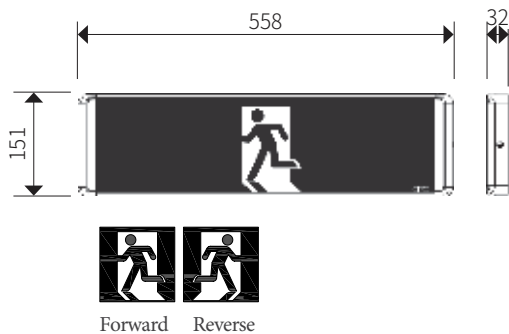


OVERVIEW

Using high-intensity and well-balanced LED, it brings a sense of modern space with a focus on sophisticated furniture. With an only simple manual push station, we can check the function as well as manage easily. In addition, exit light status can be easily checked by the red LED that monitors the backup power and the green LED that monitors the power usage.

FEATURE

- Use high-intensity LED
- Adoption of a light guide panel for uniform brightness
- SLIM BEZEL DESIGN
- Smallest vertical size in its class



SPECIFICATION

Model	L1EWW-11
KFI Approval No.	Yu 19-129
Description	C220V, DC 4.8 V, For evacuation, medium size, wall-mounted, LED, single-sided, valid lighting time for 120 minutes
KC Registration No.	R-R-GSF-L1EWW
Input Voltage	AC220V, 50/60Hz
Standby Power	DC4.8V / 600mAh, Ni-Cd
Current Consumption	4W
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	558(W) X 151(H) X 32(D) mm
Weight	2kg
Material	Steel 0.8mm, PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

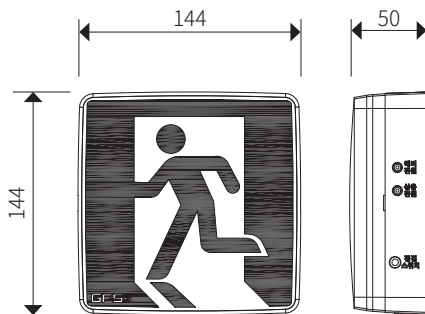


OVERVIEW

Using high-intensity and well-balanced LED, it brings a sense of modern space with a focus on sophisticated furniture. With an only simple manual push station, we can check the function as well as manage easily. In addition, exit light status can be easily checked by the red LED that monitors the backup power and the green LED that monitors the power usage.

FEATURE

- Use high-intensity LED
- SLIM BEZEL DESIGN



Forward Reverse

SPECIFICATION

Model	L2ESW-10
KFI Approval No.	Yu 20-67
Description	AC220V, DC 4.8 V, For evacuation, small size, wall-mounted, LED, single-sided, valid lighting time for 120 minutes
KC Registration No.	R-R-GSF-L2ESW-10
Input Voltage	AC220V, 50/60Hz
Standby Power	DC3.6V /400mAh, Ni-Cd
Current Consumption	2W
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	144(W) X 144(H) X 50(D) mm
Weight	335g
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



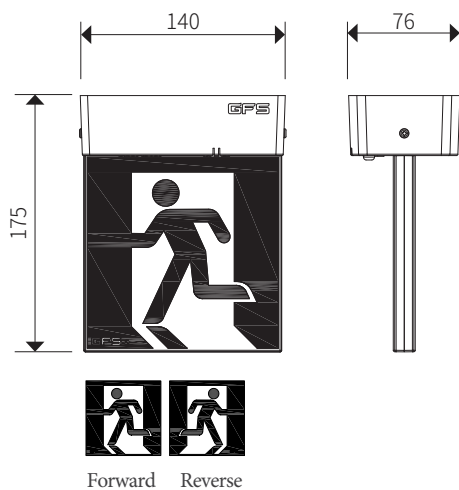
OVERVIEW

Using high-intensity and well-balanced LED, it brings a sense of modern space with a focus on sophisticated furniture. With an only simple manual push station, we can check the function as well as manage easily.

In addition, exit light status can be easily checked by the red LED that monitors the backup power and the green LED that monitors the power usage.

FEATURE

- Use high-intensity LED
- SLIM BEZEL DESIGN



SPECIFICATION

Model	L2ESC-10 (single - side)	L2ESC-20 (double - side)
KFI Approval No.	Yu 21-58	
Description	AC220V, DC 3.6V, For evacuation, small size, ceiling type, LED, single/double sided, valid lighting time for 120 minutes	
KC Registration No.	R-R-GSF-L2ESC-20	
Input Voltage	AC220V, 50/60Hz	
Standby Power	DC3.6V / 350mAh, Ni-Cd	
Current Consumption	2W	
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED	
Light Source	LED	
Connection	3 Wire System, 2 Wire System	
Dimension (WxHxD)	140(W) X 175(H) X 76(D) mm	
Weight	386g	
Material	PC Fire Retardant V2	
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH	

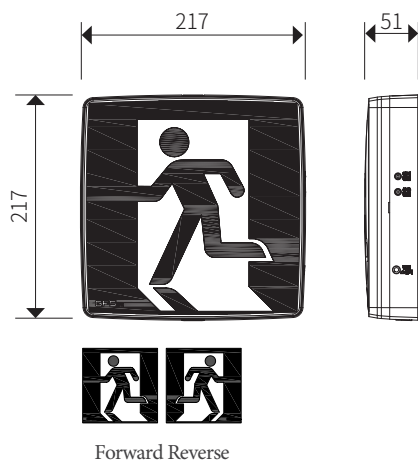


OVERVIEW

Using high-intensity and well-balanced LED, it brings a sense of modern space with a focus on sophisticated furniture. With an only simple manual push station, we can check the function as well as manage easily. In addition, exit light status can be easily checked by the red LED that monitors the backup power and the green LED that monitors the power usage.

FEATURE

- Use high-intensity LED
- Smallest vertical size in its class
- SLIM BEZEL DESIGN



SPECIFICATION

Model	L2EMW-19
KFI Approval No.	Yu 20-40
Description	AC220V, DC3.6V, For evacuation, medium size, wall-mounted, LED, single-sided, valid lighting time for 120 minutes
KC Registration No.	R-R-GSF-L2EMW-10
Input Voltage	AC220V, 50/60Hz
Standby Power	DC3.6V / 600mAh, Ni-Cd
Current Consumption	4W
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	217(W) X 217(H) X 51(D) mm
Weight	580g
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

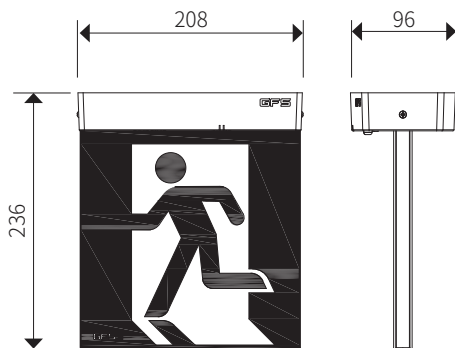


OVERVIEW

Using high-intensity and well-balanced LED, it brings a sense of modern space with a focus on sophisticated furniture. With an only simple manual push station, we can check the function as well as manage easily. In addition, exit light status can be easily checked by the red LED that monitors the backup power and the green LED that monitors the power usage.

FEATURE

- Use high-intensity LED
- SLIM BEZEL DESIGN



Forward Reverse



Left Bothways Right

SPECIFICATION

Model	L2EMC-10 (single - side)	L2EMC-20 (double - side)
KFI Approval No.	Yu 24-133	
Description	AC220V, DC3.6V, For evacuation, medium size, ceiling type, LED, single/double sided, valid lighting time for 120 minutes	
KC Registration No.	R-R-GSF-L2HMC-40a	
Input Voltage	AC220V, 50/60Hz	
Standby Power	DC3.6V / 900mAh, Ni-Cd	
Current Consumption	4W	
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED	
Light Source	LED	
Connection	3 Wire System, 2 Wire System	
Dimension (WxHxD)	208(W) X 236(H) X 96(D) mm	
Weight	900g	
Material	PC Fire Retardant V2	
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH	



OVERVIEW

Using high-intensity and well-balanced LED, it brings a sense of modern space with a focus on sophisticated furniture. With an only simple manual push station, we can check the function as well as manage easily.

In addition, exit light status can be easily checked by the red LED that monitors the backup power and the green LED that monitors the power usage.

FEATURE

- Use high-intensity LED
- Adoption of a light guide panel for uniform brightness
- Application of side holes to ensure side visibility



Forward Reverse



Left Bothways Right

SPECIFICATION

Model	L1ELW-19
KFI Approval No.	Yu 12-45-1
Description	AC220V, DC4.8V, or evacuation, big size, protruding wall - mounted type, LED, single - sided, valid lighting time for 120 minutes
KC Registration No.	R-REM-GSF-L1ELW-10
Input Voltage	AC220V, 50/60Hz
Standby Power	DC4.8V / 600mAh, Ni-Cd
Current Consumption	5W
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	255(W) x 272(H) x 47(D) mm
Weight	1.3kg
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH



OVERVIEW

Ceiling mounted exit light is installed in the ceiling above an exit door or at an exit way to indicate an evacuation, with built-in overcurrent and overvoltage protection circuits. Exit light has a backup battery that is automatically charged under normal circumstances, when the power fails, it can stay on for 120 minutes. Exit light uses high-intensity LED, which harmonizes with modern space with a focus on sophisticated furniture and has excellent visibility thanks to its optimal and balanced brightness. Commonly used power can be easily checked by the green LED and power monitoring in standby mode can be checked by the red LED.

FEATURE

- Use high-intensity LED
- Adoption of a light guide panel for uniform brightness



Forward Reverse



Left Bothways Right

SPECIFICATION

Model	L1ELC-19
KFI Approval No.	Yu 12-42-1
Description	AC220V, DC4.8V, For evacuation, big size, ceiling type, LED, single - sided, valid lighting time for 120 minutes
KC Registration No.	R-REM-GSF-L1ELC-10
Input Voltage	AC220V, 50/60Hz
Standby Power	DC4.8V / 600mAh, Ni-Cd
Current Consumption	5W
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	263(W) x 290(H) x 110(D) mm
Weight	1.4kg
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

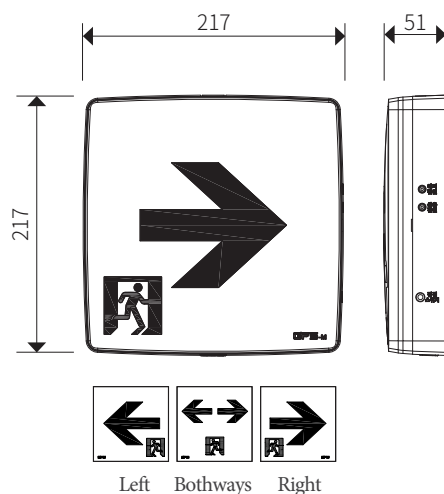


OVERVIEW

Using high-intensity and well-balanced LED, it brings a sense of modern space with a focus on sophisticated furniture. With an only simple manual push station, we can check the function as well as manage easily. In addition, exit light status can be easily checked by the red LED that monitors the backup power and the green LED that monitors the power usage.

FEATURE

- Use high-intensity LED
- Smallest vertical size in its class
- SLIM BEZEL DESIGN



SPECIFICATION

Model	L2HMW-10
KFI Approval No.	Yu 20-54-1
Description	AC220V, DC3.6V, hall way, medium size, wall-mounted, LED, single-sided, valid lighting time for 120 minutes
KC Registration No.	R-R-GSF-L2HMW-10
Input Voltage	AC220V, 50/60Hz
Standby Power	DC3.6V / 600mAh, Ni-Cd
Current Consumption	4W
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	217(W) X 217(H) X 51(D) mm
Weight	601g
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

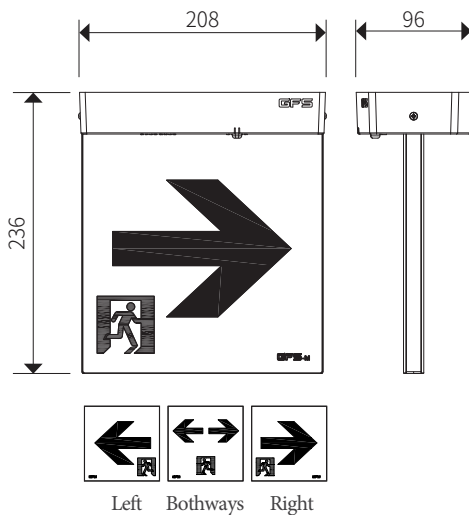


OVERVIEW

Using high-intensity and well-balanced LED, it brings a sense of modern space with a focus on sophisticated furniture. With an only simple manual push station, we can check the function as well as manage easily. In addition, exit light status can be easily checked by the red LED that monitors the backup power and the green LED that monitors the power usage.

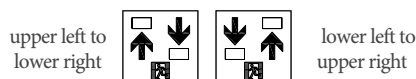
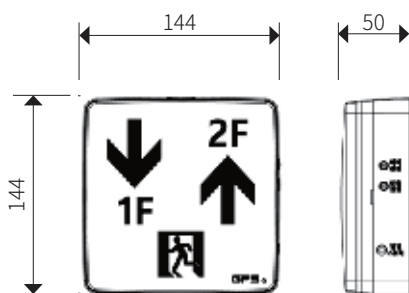
FEATURE

- Use high-intensity LED
- SLIM BEZEL DESIGN



SPECIFICATION

Model	L2HMC-10 (single - side)	L2HMC-20 (double - side)
KFI Approval No.	Yu 24-132	
Description	AC220V, DC3.6V, hall way, medium size, ceiling type, LED, single/double-sided, valid lighting time for 120 minutes	
KC Registration No.	R-R-GSF-L2HMC-40a	
Input Voltage	AC220V, 50/60Hz	
Standby Power	DC3.6V / 900mAh, Ni-Cd	
Current Consumption	4W	
Inspection Switch	Standby Power Inspection: Red LED Commercial Power Inspection: Green LED	
Light Source	LED	
Connection	3 Wire System, 2 Wire System	
Dimension (WxHxD)	208(W) X 236(H) X 96(D) mm	
Weight	900g	
Material	PC Fire Retardant V2	
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH	



* Indication of floors as per signage design request

OVERVIEW

Using high-intensity and well-balanced LED, it brings a sense of modern space with a focus on sophisticated furniture. With an only simple manual push station, we can check the function as well as manage easily. In addition, exit light status can be easily checked by the red LED that monitors the backup power and the green LED that monitors the power usage.

FEATURE

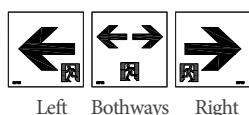
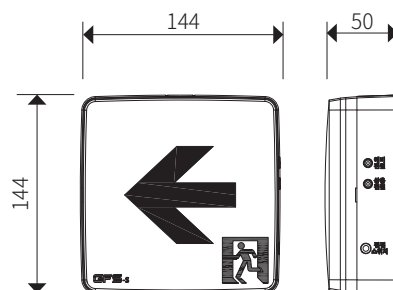
- Use high-intensity LED
- SLIM BEZEL DESIGN
- Smallest vertical size in its class

SPECIFICATION

Model	L2SSW-10
KFI Approval No.	Yu 20-52
Description	AC220V, DC7.2V, stair way, small size, wall-mounted, LED, single-sided, valid lighting time for 120 minutes
KC Registration No.	R-R-GSF-L2SSW-10
Input Voltage	AC220V, 50/60Hz
Standby Power	DC7.2V / 600mAh, Ni-Cd
Current Consumption	2.6W
Inspection Switch	Standby Power Inspection: Red LED / Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	144(W) X 144(H) X 50(D) mm
Weight	400g
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

EXIT LIGHT - PASSAGE WAY (Small size, Wall type)

L2CSW-10



OVERVIEW

Using high-intensity and well-balanced LED, it brings a sense of modern space with a focus on sophisticated furniture. With an only simple manual push station, we can check the function as well as manage easily. In addition, exit light status can be easily checked by the red LED that monitors the backup power and the green LED that monitors the power usage.

FEATURE

- Use high-intensity LED
- SLIM BEZEL DESIGN
- Smallest vertical size in its class

SPECIFICATION

Model	L2CSW-10
KFI Approval No.	Yu 20-68-1
Description	AC220V, DC3.6V, passage way, small size, wall-mounted, LED, single-sided, valid lighting time for 120 minutes
KC Registration No.	R-R-GSF-L2CSW-10
Input Voltage	AC220V, 50/60Hz
Standby Power	DC3.6V / 400mAh, Ni-Cd
Current Consumption	2.6W
Inspection Switch	Standby Power Inspection: Red LED / Commercial Power Inspection: Green LED
Light Source	LED
Connection	3 Wire System, 2 Wire System
Dimension (WxHxD)	144(W) X 144(H) X 50(D) mm
Weight	335g
Material	PC Fire Retardant V2
Operating Environment	-10°C ~ 50°C / 0% ~ 95% RH

MAJOR REFERENCES

MAJOR REFERENCES

SYSTEM

FIRE ALARM CONTROL CENTER

FIRE APPLIANCES

EXIT LIGHT

MAJOR REFERENCES

Incheon International Airport Phase 3

Client	Incheon International Airport Corporation
Construction period	from September 2014 to December 2017
Address	446, Terminal 2-daero, Jung-gu, Incheon
Construction Scale	Terminal 2 (384,336m ²) T2 front facilities (138,71m ²) Auxiliary buildings (60,361m ²) IAT/BHS/UT tunnel joint (2,311m ²)



UAE Barakah Nuclear Power Plant

Client	KEPCO
Construction period	Unit 1&2 December 2013 - August 2019 Unit 3&2 October 2015 - December 2019
Address	UAE BARAKAH AREA
Construction Scale	Site Area : 10 million m ² Capacity : 1.4 million kW



LG Science Park

Client	S&I Corporation
Construction period	from July 2015 to December 2017
Address	727-977 Magok-dong, Gangseo-gu, Seoul
Construction Scale	Research Institute: B4~8F, 8 buildings, Total floor area: 448,691m ²



Hanwha Galleria Gwanggyo Branch

Client	Hanwha Engineering & Construction
Construction period	from April 2018 to January 2020
Address	6-1 Block, Gwanggyo Development District, Iui-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do
Construction Scale	Department store 1 building B7~12F Total floor area: 137,714m ²



Seoul National University Hospital

Client	Seoul National University Hospital
Construction period	December 2014
Address	101 Daehak-ro, Jongno-gu, Seoul (28 Yeongeon-dong)
Construction Scale	From basement 1st floor to 13th floor above-ground Total floor area: 107,114m ²



APARTMENT BUILDINGS & COMMERCIAL COMPLEXES

Seoul Gangnam Paragon Apartment, Seoul Gangnam Daechi
Raemian Hi-Stone Apartment
Seoul Gangnam The HJae-Gaepo Apartment
Seoul Gangnam Samsung Tower Palace 3 Complex
Seoul Gangnam Hillstate Eco Apartment
Seoul Gangnam N Tower Complex, Seoul Gangdong Cheonho 2nd
Woorim Lumi Apartment
Seoul Gangseo Lotte Castle Le West Complex
Seoul Gangseo Ujangan Hanwha Dream Green Apartment Seoul
Gwanak Hillstate New Forest Apartment
Seoul Gwangjin Riverside SK View Complex
Seoul Gwangjin Plaza Hillstate Apartment
Seoul Gwangjin Guui Jayang Redevelopment Complex
Seoul Songpa Pungnap Hyundai Apartment
Seoul Songpa Hejin City Apartment
Seoul Songpa Jamsil Lotte World Tower Complex
Seoul Yangcheon Geukdong Neulpureun Apartment
Seoul Yangcheon Mokdong Daemyung Royal Reconstruction
Seoul Yangcheon Sinwol Sindobrannew 1st Apartment
Seoul Yeongdeungpo Brighton Yeouido Complex
Seoul Yeongdeungpo Teachers Pension Seoul Hall Complex Seoul
Yeongdeungpo Yeouido Xi Apartment
Seoul Yeongdeungpo Hillstate Classian Apartment
Seoul Yeongdeungpo Wongokdong Triplex Complex
Seoul Yongsan Dongbu Ichon Geonyeong Apartment
Seoul Yongsan Byuksan Megatrium Apartment Complex
Gyeonggi Seongnam Xi Apartment, Gyeonggi Seongnam Needs
Mall New Construction Complex
Gyeonggi Seongnam Pangyo Alpha Dome City Complex
Gyeonggi Suwon The Decka Premier Apartment
Gyeonggi Suwon Dangsung Samjung Apartment
Gyeonggi Suwon Buk Suwon I-Park Apartment
Gyeonggi Suwon West Suwon
Ssangyong Sweet Dot Home Apartment
Gyeonggi Suwon Sinmaetan Jugong 2nd Complex Apartment
Gyeonggi Suwon World Meridian Apartment
Gyeonggi Suwon Ssangyong The Platinum Omokcheon Station
Apartment
Gyeonggi Suwon Yeongtong Lotte Castle El Class Apartment
Gyeonggi Suwon Xi Revvia Apartment
Gyeonggi Suwon Hanil Twin Apartment
Gyeonggi Uijeongbu Nokyangdong Daelim Apartment, Gyeonggi
Uijeongbu Lotte Castle 12 Complex Apartment
Gyeonggi Namyangju Hillstate Jingeon,
Gyeonggi Namyangju Hyundai Premier Campus,
Gyeonggi Dongducheon Songnae I-Park,
Gyeonggi Dongducheon Isu Brownstone,
Gyeonggi Bucheon Raemian Bucheon Urban Vista,
Gyeonggi Bucheon Sosa SK View,
Gyeonggi Bucheon Hanshin The Hue Metro,
Gyeonggi Bucheon Minja Station,
Gyeonggi Seongnam Sanseong Station Forestia,
Gyeonggi Yongin Gyodong Village Hyundai Hometown,
Gyeonggi Yongin Bora Village Hyundai Morningside,
Gyeonggi Yongin Seongbok Station Lotte Castle Gold Town,
Gyeonggi Yongin Seongbok Station Lotte Castle Classic,
Gyeonggi Yongin Seongbok Station Lotte Castle Park Nine 2nd,
Gyeonggi Yongin Sujin Hyundai,
Gyeonggi Yongin Sinbong Village Ja-i,
Gyeonggi Yongin Sinbong Village Ja-i 2nd,
Gyeonggi Uijeongbu Jangam POSCO The Sharp Apartment
Gyeonggi Uijeongbu Topseok Central Xi Apartment

Gyeonggi Uijeongbu Central Tower Complex
Gyeonggi Paju Lotte Castle Apartment
Gyeonggi Paju Hanyang Sujain River Palace Apartment
Gyeonggi Paju Hillstate Unjeong Apartment
Gyeonggi Pyeongtaek Geukdong Anjung Hyundai Apartment
Gyeonggi Pyeongtaek Samik Anjung Hyundai Apartment, Gyeonggi
Hanam Hillstate Powell City Apartment
Chungbuk Okcheon Yangwoo Naeanae Apartment
Chungbuk Jecheon Sinan Silk Valley Sky City Apartment, Chungbuk
Cheongju Seowon
Cheongju Gaesin Prugio Apartment, Chungnam Gyeongyeon-
Pyeonhansang Apartment
Chungnam Nonsan Daelim Apartment, Chungnam Asan The Sharp
Lakeside Apartment
Chungnam Asan Baebang Xi Apartment
Chungnam Cheonan Dongnam Sinbang Hanla Vivaldi Apartment
Chungnam Cheonan Cheonan City Xi Apartment
Chungnam Cheonan Hillstate Buldaeng The One Apartment
Chungnam Cheonan Hillstate Cheonan Complex
Jeonbuk Wanju Innovation City Ecor 2nd Complex Apartment
Jeonbuk Iksan Xi Grand Park Apartment
Seoul Gwangjin Star City Semi-residential Area
Seoul Yongsan Ichon LG Hangang Village Apartment
Gyeonggi Suwon Hillstate Gwanggyo Central Station First Complex
Gyeonggi Hwaseong Kumho Eoulim Lake Apartment
Jeonbuk Jeonju Gwangjin Athlete Village Apartment
Seoul Gwangjin Konkuk Star City Complex
Seoul Gwangjin Technomart 21 Complex
Seoul Guro Lotte Apartment
Seoul Guro Sindorim Daelim 2nd Apartment
Seoul Guro Chilseong 2nd Apartment, Seoul Guro Star Palace Complex
Seoul Geumcheon Gasan Terra Tower Complex
Seoul Geumcheon Lotte Castle Gold Park 3rd Apartment
Seoul Geumcheon Siheungdong
Nam Seoul Hanyang Apartment
Seoul Geumcheon High Heel Building Complex
Seoul Nowon Wolgye-dong Poonglim I-One Apartment
Seoul Dobong Brownstone Banghak
Gyeonggi Yongin Sinhungdeok Lotte Castle Lacy City,
Gyeonggi Yongin Yangwoo Neanae,
Gyeonggi Yongin Jinsan Village Sungwon Sangtevil,
Gyeonggi Yongin Hillstate Giheung,
Gyeonggi Yongin Hillstate Dunjun Station,
Gyeonggi Yongin Hillstate Yongin Gojin Station,
Gyeonggi Yongin Seongbok Hillstate,
Gyeonggi Icheon Lotte Castle Central Feraz Sky,
Gyeonggi Uiwang Poil Ja-i,
Gyeonggi Uijeongbu Geumo Life Zone 1 redevelopment,
Incheon Yeosu Songdo The Sharp Central Park,
Incheon Yeosu Songdo The Sharp First Park,
Incheon Yeosu Songdo The Sharp Harbor View,
Incheon Yeosu Songdo Ja-i Punggyeongchae Granoble 3rd,
Incheon Yeosu Songdo Ja-i
Punggyeongchae Granoble 3rd,
Incheon Yeosu Songdo Ja-i
Gyeongnam Changwon Hillstate Artium City,
Gyeongnam Haman GS Metro Ja-i,
Daegu Dalseo GS Sangin Ja-i,
Daegu Dalseo Sangin Hwaseong Park Dream,
Incheon Yeosu Songdo The Sharp Harbor View,
Incheon Yeosu Songdo Ja-i Punggyeongchae Granoble 3rd,
Incheon Yeosu Songdo Ja-i

Seoul Dongdaemun Raemian Weave Apartment
Seoul Dongdaemun Yongdu-dong Urban Redevelopment Seoul
Dongdaemun Hwilyung Jace Sky City Complex
Seoul Dongdaemun Hwilyung Haemoro Prestige Apartment Seoul
Dongjak Isu Station Liga Apartment
Seoul Mapo Gongdeok Hanwha Dream Green Apartment Seoul
Mapo Daelim 2nd Pyeonhansang Apartment
Seoul Mapo Raemian Mapo Riverwell Apartment
Seoul Mapo Prestige Xi Apartment
Seoul Namsing 3 Block 27 Joint Housing
Seoul Yongsan Ichon Hangaram Apartment
Seoul Yongsan Ichon Hyundai Apartment Remodeling
Seoul Yongsan Private Station Complex
Seoul Eunpyeong DMC Central Xi Apartment
Seoul Eunpyeong DMC Lotte Castle The First Apartment Seoul
Eunpyeong Bulgwang Lotte Castle Apartment
Seoul Jongno Sewoon Shopping Mall Relocation Project Complex
Seoul Jongno Unhyeon Palace SK HUB Complex
Seoul Jung
Seoul Station Hanla Vivaldi Central Apartment
Seoul Jung Dongdaemun Plaza Complex
Seoul Jung Hillstate Sewoon Central Complex
Seoul Jungnang Jungnang Forest LIG Liga Apartment, Gyeonggi
Gapyeong Hillstate New Class Apartment, Gyeonggi Goyang Gajwa
Village Byuksan Blooming Apartment, Gyeonggi Goyang
Neunggokdong Kumho Apartment, Gyeonggi Goyang Hwajeong
Yojin Tower Complex, Gyeonggi Gwacheon Weaver Field
Apartment
Gyeonggi Gwacheon Prestige Xi Apartment
Gyeonggi Gwangmyeong Soha-dong Eoulim Apartment, Gyeonggi
Gwangmyeong Cheolsan-dong Cheolsan Jugong 3rd Complex
Apartment
Gyeonggi Gwangmyeong Medical Complex Cluster Complex
Gyeonggi Gwangju Hillstate Taejeon Apartment
Gyeonggi Suwon Hillstate Prugio Suwon Apartment, Gyeonggi
Suwon Hillstate Homasill Apartment
Gyeonggi Siheung Geumgang Penitium Apartment, Gyeonggi
Siheung Baegot Hanla Vivaldi 2nd Apartment, Gyeonggi Siheung
Siheung Hanil
Punggyeongchae Granoble 5th,
Incheon Yeosu Poonglim I-Won,
Incheon Yeosu Hillstate Lake Songdo 2nd,
Incheon Jung-gu Yeongjong Sky City Hillstate,
Gangwon Sokcho The Ocean Ja-i,
Gangwon Wonju The Sharp Central Park,
Gangwon Wonju Lotte Castle Gold Park 1st,
Gangwon Wonju Lotte Castle Gold Park 2nd,
Gangwon Chuncheon Sinmancheon Hanil U&I,
Sejong Garak 10th Easy The One,
Sejong Emoo Town,
Sejong Ja-i The City,
Sejong Jochiwon Shinheung Prugio,
Sejong Garak 1st Sejong Hildesheim,
Daejeon Dong-gu Gao I-Park,
Gyeongnam Geosje SK View,
Gyeongnam Geosje Okmyeong 2nd reconstruction,
Gyeongnam Gimhae New Town Hanil U&I,
Gyeongnam Gimhae Sinmun I District A7-1BL,
Gyeongnam Gimhae Ssangyong The
Gyeongnam Changwon Lotte Castle Centum Gold,
Gyeongnam Changwon Yongi The Sharp Lake Park
Seoul Seocho Grand Ja-i,

Seoul Seocho Grand Ja-i,
Gyeonggi Guri Achasan Eoulim,
Gyeonggi Osan Lotte Castle Sky Park,
Incheon Seo-gu
Geomdan Hanshin The Hue Canal Park,
Gyeongbuk Gumisungwon,
Seoul Seocho The Sharp,
Seoul Seocho D-H Banpo La Class,
Seoul Seocho Lotte Castle President,
Gyeonggi Guri Agricultural Products Center,
Gyeonggi Gunpo SK Ventium,
Gyeonggi Gunpo IT Valley,
Gyeonggi Osan Seodongtan The Sharp Park City,
Gyeonggi Osan Sema Edu Park,
Gyeonggi Osan Osan University Segyo Ja-i,
Incheon Seo-gu Geomdan Hillstate,
Incheon Seo-gu Kumho Eoulim,
Incheon Seo-gu Dangha KCC Switchen,
Gyeongbuk Miryang Nano City Hanshin The Hue,
Gyeongbuk Pohang SK View Hyeoja Well-being Town,
Gyeongbuk Pohang Woo-hyun Poonglim I-Won,
Seoul Seocho Maple Ja-i,
Gyeonggi Gunpo Sanbon Jugong,
Gyeonggi Yongin Gongse Lake Village Sungwon Sangte Lake View,
Incheon Seo-gu Dangha Poonglim I-Won,
Gyeongbuk Pohang Hillstate Chogok,
Seoul Seocho Banpo Miju,
Seoul Seocho Banpo Jugong 1-danji (1,2,4 blocks) 2 block
reconstruction,
Seoul Seocho Bangbae SK Leaders View,
Seoul Seocho Seorak 2nd,
Seoul Seocho Sinbanpo 15th Raemian One Pentas,
Seoul Seocho Acro Vista,
Seoul Seongdong Kumho-dong redevelopment Byeoksan,
Seoul Seongdong Cheonggye Riverview Ja-i,
Seoul Seongdong Seongsu Dong Arch Valley,
Seoul Seongbuk Gireum-dong Kumho Eoulim,
Seoul Seongbuk Donam-dong Isu,
Seoul Seongbuk Jeongneung Daewoo,
Seoul Songna Garak Halla reconstruction,
Seoul Songna Wirye Le Revue,
Seoul Songna Jamsil The Sharp Star Park,
Seoul Songna Jamsil Licenz,
Seoul Songna Jamsil Els,
Seoul Songna Jamsil Tridgium,
Gyeonggi Gunpo Sanbon Daewoo Dio Plus,
Gyeonggi Gimpo Gochon Ja-i,
Gyeonggi Gimpo Pungmu Dream Green Eurometro,
Gyeonggi Namyangju Geumgang Pantry River Terrace,
Gyeonggi Namyangju Maseok Station New Brand New,
Gyeonggi Namyangju Byeonae Ja-i The Star,
Gyeonggi Namyangju Onam Doosan,
Gyeonggi Namyangju Hopyeong Hanwha Dream Green,
Gyeonggi Namyangju Hillstate Byeonae
Gyeongnam Gimhae Jangsin Station Yangwoo Neanae,
Gyeongnam Masan Kolon Tower 1st,
Gyeongnam Masan Kolon Haneulchae 2nd,
Gyeongnam Miryang Nano City Hanshin The Hue,
Gyeongnam Miryang Sammun Prugio,
Gyeongnam Yangsan Yangsan Hanshin The Hue,
Gyeongnam Yangsan Ipyunhansang 2nd,
Gyeongnam Changwon Lotte Castle The First,

APARTMENT BUILDINGS & COMMERCIAL COMPLEXES

Daegu Dalseo Jinchon Station	Busan Busanjin Baegyansan	Daegu Buk-gu Chilgok Central Park Apartment,	Busan Busanjin Baegyansan Ssangyong Sweet Dot Home Apartment,
Daesung Skyrex Mixed-use Complex,	Lotte Castle Gold Central Apartment,	Daegu Buk-gu Hillstate Decian Donam Apartments,	Busan Busanjin Beomil Station Woobang Ushel Apartment,
Daegu Suseong Hwaseong Park Regency Apartment,	Busan Yeonje Raemian Lake County Apartment,	Daegu Seo-gu Jungri-dong Jugong Apartment,	Busan Busanjin Halla Vivaldi Apartment,
Busan Nam-gu LG Metro City Phase 4, 5 Apartments,	Daegu Dalseo Wolseong-dong Haneulchae Apartment,	Daegu Suseong Ssangyong The Platinum Mixed-use Building,	Busan Buk-gu Hwamyung Daerim Town Apartment,
Busan Busanjin Lotte Castle Eluce Mixed-use Building,	Daegu Dong-gu The Sharp Dearo Apartment,	Daegu Suseong Park Dream Apartment,	Busan Buk-gu Hwamyung Lotte Castle Kaiser Apartment,
Busan Suyeong Kumho Eoulim The Beach Apartment,	Daegu Suseong Macho-dong Hanil U&I Apartment,	Ulsan Dong-gu Gwell City Xi Apartments,	Busan Sasang Juree Lotte Castle Gold Smart Apartment,
Daegu Dalseo Hillstate Gamsam Central Mixed-use Complex,	Daegu Suseong Beomeo-dong Lotte Castle Mixed-use Building,	Ulsan Buk-gu Saechongok Hanshin Hueplus Apartment,	Busan Saha Dadae-dong Lotte Castle Blue Apartment,
Daegu Suseong Hillstate Beomeo Central Apartment,	Busan Dongnae Raemian I-Park Apartment,	Ulsan Buk-gu Sincheon Emco Town Aptartme	Busan Seomyeon The Sharp Central Star Mixed-use Complex,
Busan Dongnae The Sharp Apartment,	Busan Dongnae Raemian Forestage Apartment,	Busan Nam-gu Daeyeon-dong SKVIEW Apartment,	Busan Haendae Beach Verbil Mixed-use Complex,
Busan Busanjin Baegyansan	Busan Busanjin Seomyeon Ssangyong Platinum Mixed-use Complex,	Busan Nam-gu Daeyeon Prugio Apartment,	Busan Haendae Centum Gyeryong Resville Apartment,
Lotte Castle Gold Central Apartment,	Busan Buk-gu Daerim Ssangyong Riverside Town Apartment,	Busan Dongnae Sajik Xi Apartment,	Busan Haendae Centum Leaders Mark Apartment,
	Busan Haendae KCC Switzen Apartment,	Busan Namcheon The Sharp Prestige,	Busan Haendae Trump World Centum Mixed-use Complex,
			Jeju Ara Switzen Apartment.

HOSPITALITY AND COMMERCIAL FACILITIES

Seoul Gangdong GS Myeongil Store	Gyeonggi Suwon Milliore	Incheon Gajang-dong Bom Plaza (Commercial)	Daejeon Yuseong Smart City Business Hotel (Accommodation)
Seoul Jung-gu Novotel Ambassador Hotel (Accommodation)	Gyeonggi Suwon Emart Suwon Store	Incheon Gyeong Homeplus Gyeysan Store	Daejeon Yuseong Libera Hotel (Accommodation)
Seoul Jungnang COSTCO Sanghong Store	Gyeonggi Suwon Hanyang Department Store	Incheon Namdong Homeplus Ganseok Store	Chungbuk Danyang Condominium (Accommodation)
Gyeonggi Goyang GS Goyang Store	Gyeonggi Suwon Hanwha Galleria Gwanggyo Store	Incheon Bupyeong Hanwha Mart Bupyeong Store	Chungbuk Jecheon Forest Resort (Accommodation)
Gyeonggi Goyang GS Ilsan Store	Gyeonggi Siheung Emart Sihwa Store	Incheon Jung-gu Grand Hyatt West Tower (Accommodation)	Chungbuk Cheongju Jungwon Tourist Hotel (Accommodation)
Gyeonggi Goyang GS Hwajeong Store	Gyeonggi Siheung Homeplus Sihwa Store	Gangwon Goseong Geumgangsang Condominium (Accommodation)	Chungbuk Cheongju Hyundai Department Store Cheongju
Gyeonggi Goyang Hyangdong Bom Plaza (Commercial)	Gyeonggi Siheung Homeplus Siheung Store	Gangwon Goseong Seorak Daemyung Condo (Accommodation)	Chungnam Seosan Lotte Mart
Gyeonggi Goyang Homeplus Ilsan Store	Gyeonggi Ansan GS Ansan Store	Gangwon Goseong Alps Resort (Accommodation)	Chungnam Asan Glory Condo Dogo (Accommodation)
Gyeonggi Gimpo Homeplus Gimpo Store	Gyeonggi Anyang Newcore Beomgye Department Store	Gangwon Goseong Haila Beach (Accommodation)	Chungnam Cheonan Homeplus Cheonan Store
Gyeonggi Namyangju GS Deokso Store	Gyeonggi Uijeongbu Island Castle (Accommodation)	Gangwon Goseong Haila Beach (Accommodation)	Jeonbuk Iksan Homeplus Iksan Store
Gyeonggi Namyangju GS Maseok Store	Gyeonggi Uijeongbu Homeplus Uijeongbu Store	Gangwon Chuncheon Green Ville Family Hotel (Accommodation)	Jeonnam Suncheon Homeplus Suncheon Store
Gyeonggi Bucheon Homeplus Jungdong Store	Gyeonggi Icheon Lotte Mart Icheon Store		Gwangju Milliore
Gyeonggi Suwon Gwanggyo Convention Kkum-e Green (Complex)	Gyeonggi Pyeongtaek Newcore Hotel	Gangwon Chuncheon Samsung Plaza	Gyeongbuk Gyeongju Mauna Ocean Resort (Accommodation)
Gyeonggi Suwon Designer Club	Gyeonggi Pyeongtaek Newtown Department Store	Gangwon Pyeongchang Yongpyong Resort Youth Hostel (Accommodation)	Gyeongbuk Gyeongju Bomun Condo Buildings A,B,D (Accommodation)
Gyeonggi Suwon Lotte Mall Suwon Station	Gyeonggi Pocheon Sanjeong Lake Hanwha Condominium (Accommodation)	Gangwon Hongcheon Daemyung Condominium (Accommodation)	Gyeongbuk Gyeongju Condominium (Accommodation)
			Gyeongbuk Gyeongju Hyundai Hotel (Accommodation)
			Gyeongbuk Chilgok Homeplus Chilgok Store
			Gyeongbuk Pohang The Sharp Yanghak Town (Accommodation)
			Gyeongnam Gimhae Homeplus Gimhae Store

INDUSTRIAL, NUCLEAR, AND HEALTHCARE FACILITIES

Seoul Gangnam Samsung Medical Center	Gyeonggi Goyang Ilsan National Cancer Center	Incheon Michuhol Women's Hospital	Gyeongbuk Gumi Daewoo Electronics Gumi Plant
Seoul Gangnam CHA Hospita	Gyeonggi Gwangmyeong Kia Motors Sohari Plant	Gangwon Wonju Samyang Foods	Gyeongbuk Gumi Micronics
Seoul Dongdaemun Kyunghee Medical Center	Gyeonggi Gumpo Cheil Industries Gumpo Plant	Daejeon Daedeok Boramae, Sintanjin Veterans Hospital	Gyeongbuk Gumi Halla Sigma Valley
Seoul Dongjak	Gyeonggi Bucheon Anam Industries	Daejeon Seo-gu Eulji Hospital	Gyeongbuk Ulsin Yeonggwang, Ulsin, Kori, Wolseong Nuclear Power Plant Detector Systems
Seoul Municipal Children's Hospital	Gyeonggi Seongnam Bundang Combined Thermal Power Plant	Daejeon Seo-gu Eulji University Doosan Hospital	Gyeongbuk Ulsin Yeonggwang, Ulsin Backup AC Power Equipment
Seoul Dongjak Chung-Ang University Hospital	Gyeonggi Seongnam Bundang	Chungbuk Cheongju Geumseong Electric, Geumseong Co.	Gyeongbuk Ulsin Hanul Units 1 & 2 Fire Automation Detection System
Seoul Songpa Police Hospital & National Cancer Center	Seoul National University Hospital	Chungbuk Cheongju Chungbuk National University Hospital	Gyeongbuk Ulsin Yeonggwang, Ulsin Backup AC Power Equipment
Seoul Jongno	Gyeonggi Seongnam Sigma Valley		Gyeongbuk Ulsin Hanul Units 1 & 2 Fire Automation Detection System
Seoul National University Hospital	Gyeonggi Suwon Samsung Electro-Mechanics Capacitor Plant	Chungnam Asan Hanbo Steel Asan Plant	Gyeongnam Changwon Hanyang University
Seoul Jongno SNU Emergency Medical Center & Dental Hospital	Gyeonggi Suwon St. Vincent's Hospital	Chungnam Taean Taean Thermal Power Plant	Hanmaeum International Medical Center
Seoul Jongno SNU Advanced Outpatient Center	Gyeonggi Ansan Molex Korea Ansan Plant	Jeonbuk Gunsan Daewoo Engine	Daegu Dalseo Veterans Hospital
	Gyeonggi Anseong Haitai Beverage Anseong Plant	Jeonbuk Jeonju Korea Chemical	Ulsan Nam-gu Korea Chemical
		Jeonnam Yeonggwang Honam Thermal Power Plant	

EDUCATIONAL, RESEARCH, AND SPECIALIZED FACILITIES

Seoul Gangseo LG Science Park East Side	Gyeonggi Namyangju Kyungbok University	Incheon Jung-gu Incheon Airport Terminal 2 East Expansion	Chungnam Secheon Samsung Electronics Secheon Training Center
Seoul Gangseo Magok MICE Underground Public Passage	Gyeonggi Namyangju Migeum Elementary School Cafeteria	Incheon Jung-gu Incheon Airport Terminal 2 East Expansion Piping	Gyeongbuk Gyeongsan Daegu Bank Training Center
Seoul Gwanak	Gyeonggi Seongnam Kyungwon University International Language Institute & Administration Building	Incheon Jung-gu Incheon International Airport Phase 3	Gyeongbuk Gumi Kolon Comprehensive Research Institute
Seoul National University College of Agriculture & Life Sciences	Gyeonggi Seongnam Telecom Development Institute	Incheon Gyeong Gyeongin Ara Watway Section 1	Gyeongbuk Ulsin Ulsin Airport
Seoul Gwanak	Gyeonggi Siheung Siheung Youth Center	Gangwon Gangneung Donghae Expressway Juminjin Section 5-6	Gyeongbuk Pohang Pohang University of Science and Technology
Seoul National University Sinyang Academic Information Center	Gyeonggi Osan Talent Development Institute Osan Campus	Gangwon Wonju Sangji University Education & Research	Gyeongnam Gimhae Gimhae Airport New Terminal
Seoul Gwanak	Gyeonggi Yongin Gyeonggi Fire Academy	Daejeon Gyeongju High-Speed Rail South Seoul Track	Gyeongnam Gimhae Busan-Gimhae Light Rail New Vehicle Base
Seoul National University Comprehensive Education & Research Complex	Gyeonggi Yongin Kia Motors Training Center	Chungnam Gyeryong Gyeryong Military Support Unit	Gyeongnam Sacheon Sacheon Bypass Tunnel
Seoul Gwanak	Gyeonggi Yongin Samsung 2nd Training Center	Chungnam Dangjin Asan Bay Hanbo Steel Complex	Gyeongnam Hapcheon Sangha Elementary School New Building
Seoul National University Student Dormitory	Gyeonggi Yongin Halla Group Training Center		Daegu National Intelligence Resources Management Daegu Center
Seoul Yongsan	Gyeonggi Uijeongbu Songhyeon High School Multipurpose Classroom		Daegu Buk-gu Kyungpook National University Dormitory
			Daegu, Ulsan, Daegu, Chungju, Pyeongtaek - Domestic Mid-region Battery New Base

OFFICE BUILDINGS AND OTHER FACILITIES

Gangnam SKHUB BLUE	Gwacheon Hillstate Gwacheon Central	Jeonju Hyundai Marine & Fire Insurance Jeonju Building	Jung-gu Daewoo Securities Building
Gangnam Kumon Math Building	Gwangmyeong International Trade Center	Yeosu Forena Yeosu Ungcheon Dia Island	Haeundae Forena Centum City
Gangnam Gusan Building	Gwangju CJ Logistics Megahub	Dong-gu National Asia Culture Center Seo-gu	Jeju Hyundai Marine & Fire Insurance Building
Gangnam Korea Tobacco & Ginseng Corp Building	Gwangju Gonjam SCM Logistics Center	Jeonnam Communications Office	Jeju Telephone Office (KT Jeju Branch)
Gangnam Daechi Autoway Tower	Gwangju CJ Courier Metropolitan MEGA HUB Terminal	Gyeongju Gyeongju Alternative National Road (Naenam-Woedong)	Buk-gu Universiade Athlete's Village
Gangnam Doosan Bears Building	Gunpo SK Ventium	Mungyeong Ihwaryeong Tunnel	Buk-gu Exhibition Center
Gangnam Samseongdong Mikelan	Gimpo KB Integrated IT Center	Chilgok Cold Chain Fulfillment Logistics Center	Suseong Daegu Metro Line 2 Beomeo Section
Gangnam Samsung Trade Research Institute	Namyangju Hillstate Byeollae Station	Geumcheon Gasan-dong Byuksan Digital Valley	Jung-gu Samsung Fire & Marine Daegu Building
Gangnam Sangnok Hall	Bucheon Wonmi Dongyang Insurance Building	Yeongdeungpo Korean Federation of Trade Unions Central Workers	Nam-gu Hwangnyeongsan Indoor Ski Dome
Gangnam Yeoksam SKHUB	Bucheon Wonmi Bucheon City Hall	Welfare Center	Dongnae SK Hub Sky
Gangnam Joinsu Building	Seongnam IT Complex	Seongnam KCC Wells Tower	Busanjin Jeil Life Building
Gangnam POSCO Management Info Center	Suwon Hillstate Gwanggyo Central	Hwaseong Logistics Complex New Construction A,B Block	Sasang Digital Valley
Gangbuk Garden Tower	Ansan Sangnok-gu Office	Pohang Korea Telecom	Yuseong Daewoo Heavy Industries Daejeon Building
Gangdong Cheonho Theme Building	Ansan Interplex Factory	Pohang Telephone Office	Cheongju Cheongwon Sangdang Telephone Office
Gangseo LG Science Park	Ansan Hanjin Logistics Terminal	Geumcheon Gasan-dong Apartment-type Factory	Cheongju Chungbuk Provincial Police Agency
Gangseo Magok Central Research Institute	Anyang Anyang Sports Complex Indoor Gym	Yongsan Sambo Computer Building	Cheonan Youth Central Park
Gangseo Kolon Future Technology Institute	Osan Complex Logistics Center	Seongnam LG Medio	Jeonju MBC Jeonju Building
Guro Venture Building	Osan Jigok Sema Industrial Complex	Hwaseong Silicon Alley Dongtan	Jeonju Daehan Life Insurance
Guro Sindorim Posville	Yongin Green Cross Building	Changwon Daehung	Jeonju Building
Seongdong Seongsu Apartment-type Factory	Yongin Citizen Sports Park	Changwon Doodong Logistics Center	Yeongdeungpo Byuksan Megatrium
Seongdong Seongsu Station Teras Tower	Icheon Yangwoo Naeanae Class 568	Geumcheon Gasan-dong Hyundai Terra Tower DK	Yeongdeungpo Yeouido VIP
Seongdong Seongsu Pekotek Building	Pyeongtaek Idong National Road Site	Yongsan Haitai Building	Yeongdeungpo Yeouido Poonglim
Seongsu Kumkang Building	Hanam e-Pyeonhan Sesang City Misa	Seongnam LG Bundang Eclat 2nd	Yeongdeungpo Imkwang Grand
Songpa Munjeong SK VIGL Metro City	Hanam Riverside Skypolis	Gyeong Gyeong-gu Office	Yeongdeungpo Jump Milano
Songpa POSCO Garak-dong	Hanam Misa Obelisk	Namdong Christian Hall	Yeongdeungpo Jeil Securities Yeouido Building
Songpa Korean Lutheran Church Building	Hanam Hyundai Cluster Hangang 3rd	Namdong Incheon Police Agency	Goyang Indoor Gym
Songpa Hanwha Obelisk	Hanam Hillstate Eco Misa	Michuhol Incheon Prosecutor's Office	Bupyeong Hyundai Marine & Fire Insurance Bupyeong Building
Yeongdeungpo LG Display	Hwaseong Kia Motors Research Institute	Yuseong TJB Daejeon Broadcasting Station	Buk-gu Office
Yeongdeungpo National Assembly Members' Hall	Hwaseong Dongtan Logistics Complex C Block	Yuseong Daedeok Technovalley Sweetdot Home	Yeonsu Otis Elevator R&D Center
Yeongdeungpo Narakyum Yeouido Building	Yeongdeungpo Dangsan Kolon Starpolis	Seo-gu Dunsan Telephone Office	Dalseong County Hall
		Seo-gu Samsung Life Insurance Daejeon Headquarters	

INTERNATIONAL PROJECTS

Lotte Center Hanoi (Vietnam)	LG Innotek Haiphong Plant (Vietnam)	FED Midtown US Military Base (USA)	Baraka Nuclear Power Plant
Lotte Cinema Ninh Binh (Vietnam)	LG Display Haiphong Plant (Vietnam)	Biskra SCPP Project (Algeria)	Units 1&2&3&4 (UAE)
Lotte Cinema Bac Giang (Vietnam)	Bac An Khanh Splendora (Vietnam)		
Lotte Cinema Ha Long (Vietnam)			



PROJECT *in* VIET NAM



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**LOTTE
CENTER**

*Premier
Commercial
& Hotel
Complex*



**BAU TRAM
LAKESIDE**
*Eco-friendly
Urban Area*



KEPLER LAND
Kepler Land Twin Tower Complex



**THANH CONG
HOTEL**



PHUONG DONG GENERAL HOSPITAL



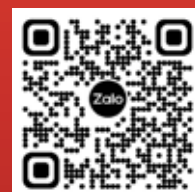


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