

HI-MAX VIET NAM

FIRE ALARM SYSTEM FIRE EXTINGUISHING SYSTEM



PCCC

HI MAX

◆ MANUFACTURE

◆ SUPPLY

◆ INSTALLATION

◆ MAINTENANCE

◆ SERVICE



Hi-max Vietnam Co., Ltd was established in 2012, has consistently developed in the field of the fire protection with the best reliability, the best quality, and the best safety are mottoes in view of our growth strategy. We always do our best to serve the needs of customers through the supply of a wide range of protection systems and the execution of many projects such as the high intelligent buildings, the large apartment town, the special plants ect. And A/S & maintenance works. We surely believe that a highly sophisticated and reliable technology couple with our developed engineering expertise only will enable us to satisfactorily meet the needs of our clients in the products of fire protection business without failure.



Manufacture

Manufacture

Fire Detectors:

Rate of rise heat detector, fixed temperature heat detector, photo-electric smoke detector, heat & smoke combined detector, photo-electric analog type smoke detector, analog type heat detector, optical beam smoke detector, line heat detector, flame detector, single station smoke detector.

Manual Call Set:

Manual call point, alarm bell, indication lamp, strobe, ...

Lights:

Types of emergency exit lights and emergency lighting.

Fire Alarm Control Panel:

P-type control panel, R-type control panel, total fire protection center, CRT unification control panel, fire fighting equipment control, control panel for fire fighting gas, emergency power supply unit, storage battery, power supply unit for transponder.



Supply

Installation Works

Fire Extinguishing Mechanical Works:

Installation of foam hydrant box in In-door & Out-door.
 Installation of sprinkler system.
 CO₂, NAF III, Halon gas system.
 Foam fire extinguishing system.
 Powder fire extinguishing system.

Fire Protecting Electrical Works:

Installation of automatic fire detecting system.
 Installation of escape & indicating system.
 Electrical work for incidental work to fire extinguishing system.
 Electrical work for incidental work to smoke extinguishing system.
 Assist work for wireless phone system.



Installation

Maintenance

Check the fire alarm system and fire alarm control panel.
 Check fire extinguishers, sprinkler heads, fire cabinets and pumps.
 Check the exit guide lights and emergency lights.
 Check bells, whistles, and fire alarm lights.
 Check fire extinguishing systems with gas, powder, ...



Maintenance

Service

Advise customers on installing fire alarm and fire fighting systems and choosing suitable products for fire protection systems of buildings, ...



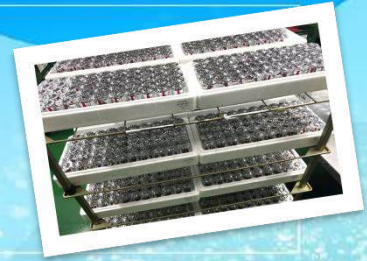
Service



❑ History

2023	
October	Hi-Max Viet Nam visited KFI Korea inspection institute
September	Hi-Max Viet Nam visited the international fire protection exhibition in Korea
2022	
August	Hi-Max Viet Nam visited the international fire protection exhibition in Korea
March	Hi-Max Viet Nam provides automatic fire alarm equipment and R-Type fire alarm control panel for Samil Pharmaceutical Project
2020	
July	Hi-Max Viet Nam provides the fire protection devices for Hyosung construction with LPG CAVERN – HYOSUNG project
2019	
October	Hi-Max Viet Nam provides the fire protection devices for Hyosung construction with JETTY LNG project
September	Hi-Max Viet Nam provides the fire protection devices for Hyosung construction with PP4 – HYOSUNG project
August	Participate in the Security & Fire safety industry exhibition in the Vietnam
March	Completing the fire protection system of PUNGKOOK SaiGon 2 project
2018	
October	Hi-Max Viet Nam cooperates with Viet Dragon Fire Protection Company Limited
August	Participate in the Security & Fire safety industry exhibition in the Vietnam
2017	
November	Hi-Max Viet Nam provides and fits up the emergency lamps for Lotte Coral Viet Nam company
September	Completion ceremony from Hi-Max Viet Nam fire-fighting equipment manufacturing plant (2017.09.21)
August	Participate in the Security & Fire safety industry exhibition in the Vietnam
January	MOU Agreement Ceremony between The Philippine Department of the Interior and Local Government & The Korean Federation of Fire Association

2016	
September	Participate in the Security & Fire safety industry exhibition in the Vietnam (2016.09.21 ~ 2016.09.24)
June	Completed construction of sprinkler LG VINA system
2015	
August	Participate in the Security & Fire safety industry exhibition in the Vietnam (2015.08.18 ~ 2015.08.20)
June	Housing a private system development (Intelligent fire monitoring system which allows to detect the presence of error in the remote smoke detectors development)
2014	
August	Participate in the Security & Fire safety industry exhibition in the Vietnam (2014.08.20 ~ 2014.08.22)
2013	
November	Fire alarm addressable system Vietnam approved fire department
October	Binh Duong Lotte Mart in Vietnam to supply materials fire alarm system
October	Vietnam An Hoa high quality coated paper project (Fire alarm system contract)
September	Fire alarm Beam smoke detector approved by Vietnam and many others
September	Phuong Nam equipment technology jsc (Fire alarm system marking strategy finalization)
August	Participate in the international exhibition Vietbuild 2013 in the Vietnam
August	Participate in the Security & Fire safety industry exhibition in the Vietnam (2013.08.08 ~ 2013.08.10)
May	Acquired as a quality certification (ISO 9001:2008)
April	Hi-Max changed the address in Vietnam
January	Production and new product development for export
2012	
August	Participate in the Security & Fire safety industry exhibition in the Vietnam(2012.08.22 ~ 2012.08.24)
May	Tested in Vietnam fire detectors and vehicles fire alarm control center (24 models)
April	Acquired as a quality certification (ISO 9001:2008)



PRODUCT LIST

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21	ELECTRIC SIREN	HR208S	DC 24V	19	
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23	SPRINKLER MANUAL BUTTON	HM4001	DC 24V	20	
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PRODUCT LIST

NO	PRODUCT	MODEL No	STANDARD	PAGE	NOTE
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37	EXPLOSION PROOF TYPE SVP PANEL	SVP	Ex d IIB+H ₂ T6 IP65	27	
38	EXPLOSION PROOF PUMP MONITOR LIGHT	FOB-2	Ex d IIB+H ₂ T6	28	
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52	MODULE 4/4	HIS604	4/4	42	TYPE R

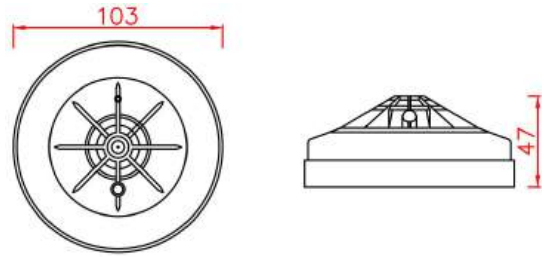


PRODUCT LIST

NO	PRODUCT	MODEL No	STANDARD	PAGE	NOTE
53	MODULE 2/2	HIS602	2/2	43	TYPE R
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59	EMERGENCY EXIT LIGHTING (SMALL)	HL3111/-1	SIDE/BOTH SIDES	47	LED
60	EMERGENCY EXIT LIGHTING (MEDIUM)	HL3113/-1	SIDE/BOTH SIDES	47	LED
61	EMERGENCY EXIT LIGHTING (LARGE)	HL3119/-1	SIDE/BOTH SIDES	48	LED
62	EMERGENCY EXIT LIGHTING (TYPE OF DIRECTION)	HL3117	SIDE/BOTH SIDES	48	LED
63	EMERGENCY EXIT LIGHTING (TYPE OF DIRECTION)	HL3022	FLOOR FLUSH	49	LED
64	EMERGENCY EXIT LIGHTING (TYPE OF DIRECTION)	HL3081	FLOOR FLUSH	49	LED
65	EMERGENCY EXIT LIGHTING (MEDIUM)	KT-610/KT-620	SIDE/BOTH SIDES	50	LED
66	EMERGENCY EXIT LIGHTING (MEDIUM)	KT-650/KT-660	SIDE/BOTH SIDES	50	LED
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67	SPRINKLER (UPRIGHT)	SPK		51	
68	SPRINKLER (PENDENT)	SPK		51	
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70	PORTABLE FIRE EXTINGUISHER	HF16-1		52	
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1 RATE OF RISE HEAT DETECTOR

❖ PRODUCT DRAWINGS

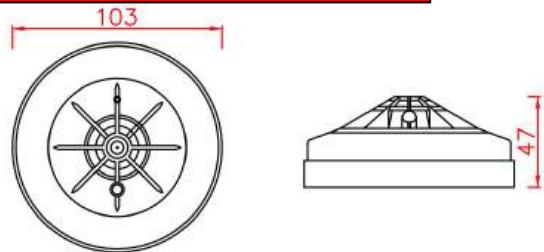


❖ SPECIFICATIONS

MODEL No	HD1081
POWER SOURCE	DC 24V / 10mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	Ø103mm x D47mm (INCLUDING BASE) / 84g
OPERATING TEMPERATURE	HEAT RISE RATE ~10°C/MIN
OPERATING INDICATOR	LED-RED COLOR
USAGE STANDARD	MAX 50EA / 1 ZONE
INSTALLATION HEIGHT	UNDER 8m
RANGE OF DETECT	UNDER 4m: 70m ² / UNDER 8m: 35m ²
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, SCHOOL, DEPARTMENT STORE, GYM, ...

2 FIXED TEMPERATURE HEAT DETECTOR

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

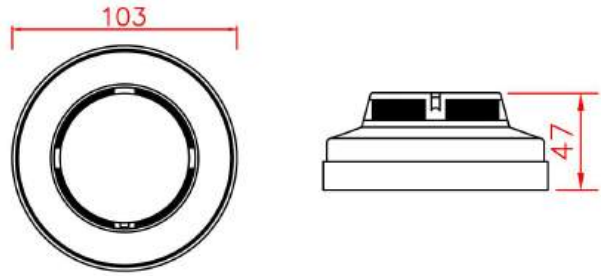
MODEL No	HD1082
POWER SOURCE	DC 24V / 10mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	Ø103mm x D47mm (INCLUDING BASE) / 84g
OPERATING TEMPERATURE	70°C
OPERATING INDICATOR	LED-RED COLOR
USAGE STANDARD	MAX 50EA / 1 ZONE
INSTALLATION HEIGHT	UNDER 8m
RANGE OF DETECT	UNDER 4m: 70m ² / UNDER 8m: 35m ²
APPLICATION	KITCHEN, BOILER ROOM, WELDING WORKSHOP, DRYING ROOM, SEWAGE DISPOSAL PLANT, PROJECTION ROOM, ...

3

PHOTO-ELECTRIC SMOKE DETECTOR



❖ **PRODUCT DRAWINGS**



❖ **SPECIFICATIONS**

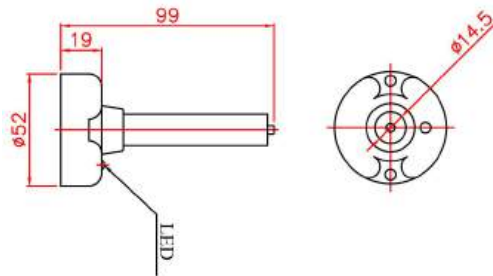
MODEL No	HD1003
POWER SOURCE	DC 24V / 10mA
AMBIENT CONDITION	-10 °C TO 50 °C, 95% RH
SIZE/WEIGHT	Ø103mm x D47mm (INCLUDING BASE) / 119g
OPERATING INDICATOR	LED-RED COLOR
USAGE STANDARD	MAX 25EA / 1 ZONE
RANGE OF DETECT	UNDER 4m: 150m ² / UNDER 15m: 70m ²
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM, STAIR COMPUTER ROOM, CONFERENCE ROOM, KARAOKE,....

4

WATERPROOF TYPE HEAT DETECTOR



❖ **PRODUCT DRAWINGS**



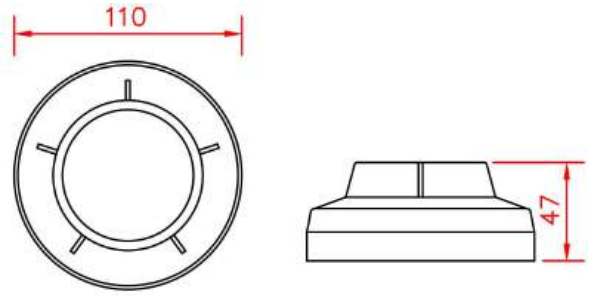
❖ **SPECIFICATIONS**

MODEL No	HD70S
POWER SOURCE	DC 24V
AMBIENT CONDITION	-10 °C TO 50 °C
SIZE/WEIGHT	W52mm x H99mm, Ø14.5mm
OPERATING TEMPEATURE	70 °C / 90 °C / 120 °C
OPERATING INDICATOR	LED-RED COLOR
RANGE OF DETECT	UNDER 4m: 60 m ² OVER 4m - UNDER 8m: 35m ²
APPLICATION	AREAS WITH HIGH HUMIDITY

5

**PHOTO-ELECTRIC ANALOG
TYPE SMOKE DETECTOR**

❖ **PRODUCT DRAWINGS**



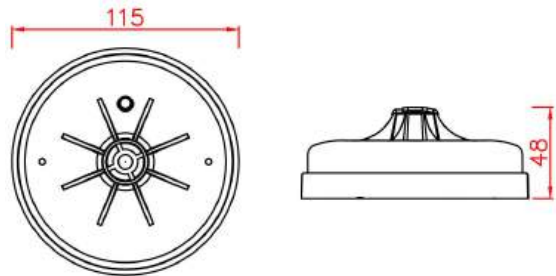
❖ **SPECIFICATIONS**

MODEL No	HD1015
POWER SOURCE	DC 24V / 3mA
AMBIENT CONDITION	-10 °C TO 50 °C, 95% RH
SIZE/WEIGHT	Ø110mm x H47mm / 133g
TYPE	ADDRESS
OPERATING INDICATOR	LED-RED COLOR
USAGE STANDARD	250EA / LOOP
FIRE DETECTION DENSITY	3% ~ 18%
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM, CONFERENCE ROOM, KARAOKE, ...

6

**ANALOG TYPE HEAT
DETECTOR**

❖ **PRODUCT DRAWINGS**



❖ **SPECIFICATIONS**

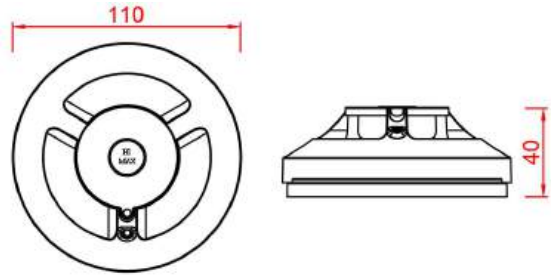
MODEL No	HD1014
POWER SOURCE	DC 24V / 3mA
AMBIENT CONDITION	-10 °C TO 50 °C, 95% RH
SIZE/WEIGHT	Ø115mm x H48mm / 100g
TYPE	ADDRESS
OPERATING INDICATOR	LED-RED COLOR
USAGE STANDARD	250EA / LOOP
FIRE DETECTION TEMPERATURE	30 °C ~ 90 °C
APPLICATION	BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM, CONFERENCE ROOM, KARAOKE, ...

7

**PHOTO-ELECTRIC ANALOG
TYPE SMOKE DETECTOR**



❖ **PRODUCT DRAWINGS**



❖ **SPECIFICATIONS**

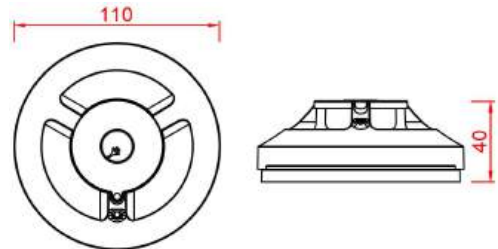
MODEL No	HD1015
POWER SOURCE	DC 24V / 3mA
AMBIENT CONDITION	-10 °C TO 50 °C, 90% RH
SIZE/WEIGHT	Ø110mm x D40mm / 100g
TYPE	ADDRESS
OPERATING INDICATOR	LED-RED COLOR
USAGE STANDARD	150EA / LOOP
FIRE DETECTION DENSITY	5% ~ 15% (FIRE DETECTION DENSITY CAN BE SET)
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM, CONFERENCE ROOM, KARAOKE, ...

8

**ANALOG TYPE HEAT
DETECTOR**



❖ **PRODUCT DRAWINGS**






❖ **SPECIFICATIONS**

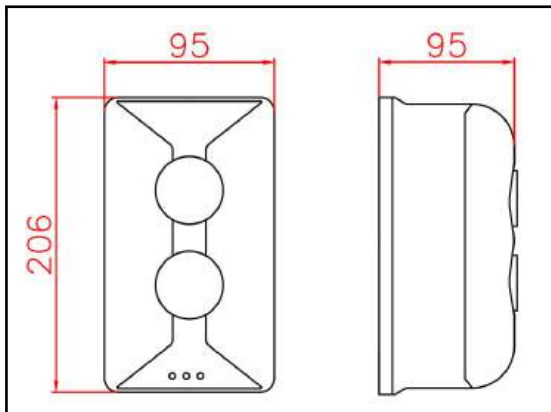
MODEL No	HD1014
POWER SOURCE	DC 24V / 3mA
AMBIENT CONDITION	-10 °C TO 50 °C, 90% RH
SIZE/WEIGHT	Ø110mm x D40mm / 90g
TYPE	ADDRESS
OPERATING INDICATOR	LED-RED COLOR
USAGE STANDARD	150EA / LOOP
FIRE DETECTION TEMPERATURE	40°C ~ 80°C (FIRE DETECTION TEMPERATURE CAN BE SET)
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM, CONFERENCE ROOM, KARAOKE, ...

9

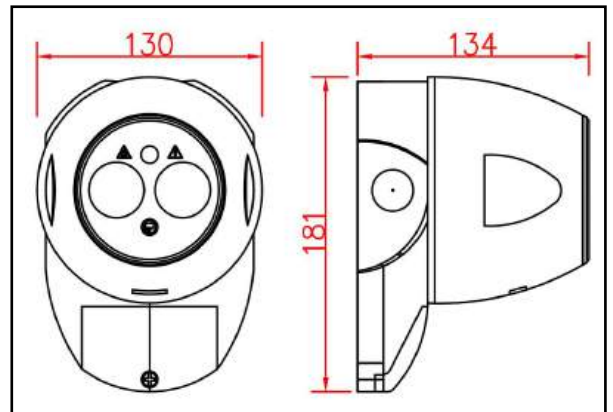
BEAM SMOKE DETECTOR

MODEL No	I9105R	HD1012	HD1016
PRODUCT			
COMPONENT	OPTICAL BEAM SMOKE DETECTOR / REFLECTOR	OPTICAL BEAM SMOKE DETECTOR (UL) / REFLECTOR	OPTICAL BEAM SMOKE DETECTOR SYSTEM / CONTROLLER / REFLECTOR
RANGE OF DETECT	100m	120m	100m
AMBIENT CONDITION	-10°C ~ 50°C, 95% RH	-20°C ~ 55°C, 95% RH	-10°C ~ 50°C, 95% RH
POWER SOURCE	DC 24V		
SIZE	W206mm x H95mm x D95mm	W130mm x H181mm x D134mm	W200mm x H235mm x D71mm
TYPE APPROVAL	FM/EN54:12/UL268/VdS/BOSEC		
INSTALLATION DISTANCE	1M FROM THE WALL		
APPLICATION	MUSEUM, SPORT ROOM, WORKSHOP ROOM, AIRPORT, EXHIBITION ROOM, BASEBALL, FACTORY, WAREHOUSE, ...		

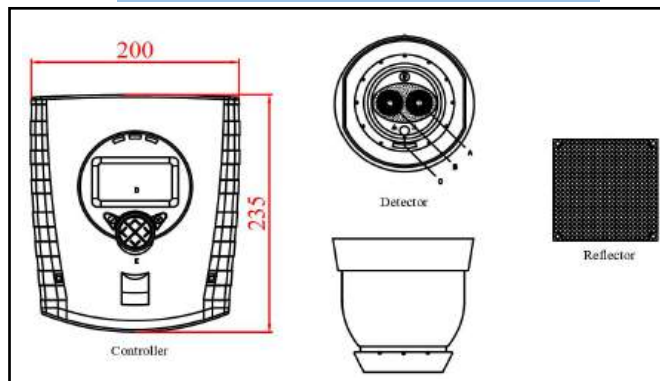
I9105R



HD1012



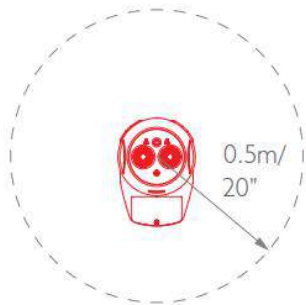
HD1016



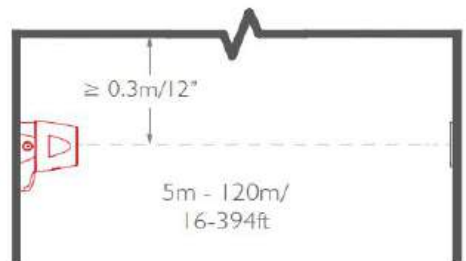
❖ SYSTEM DESCRIPTION



The beam detector will emit an invisible infrared beam, which is then reflected back by the prism block mounted directly on the opposite side in the same line as the beam detector. The reflected infrared rays are detected by the receiver eye and analyzed.

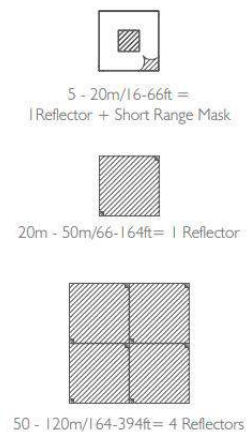
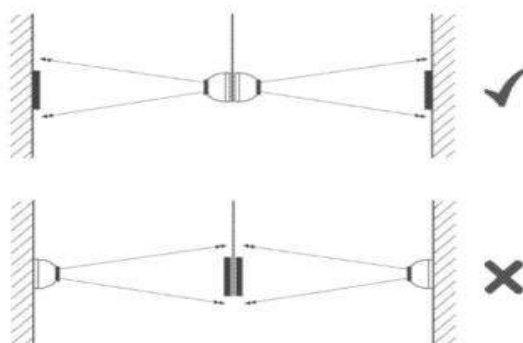


Ensure clear line of sight from detector to reflector



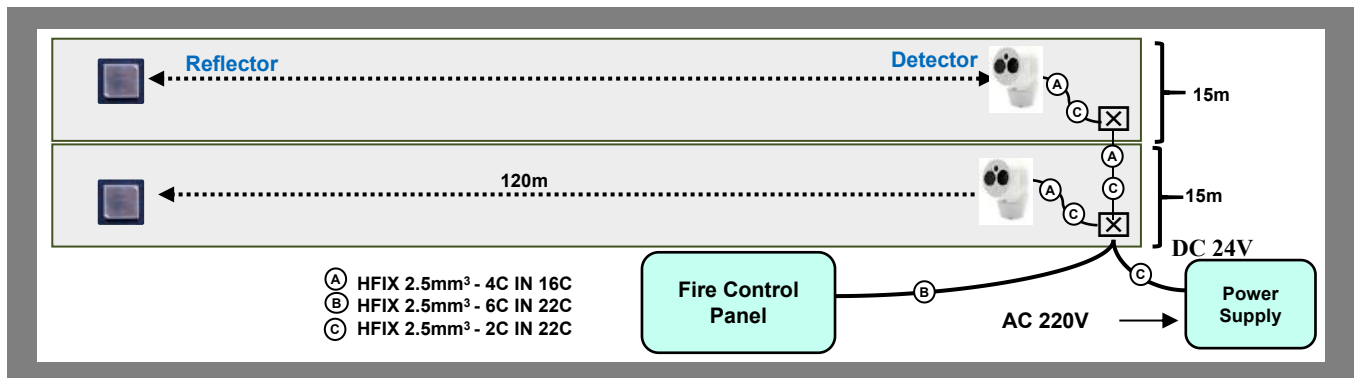
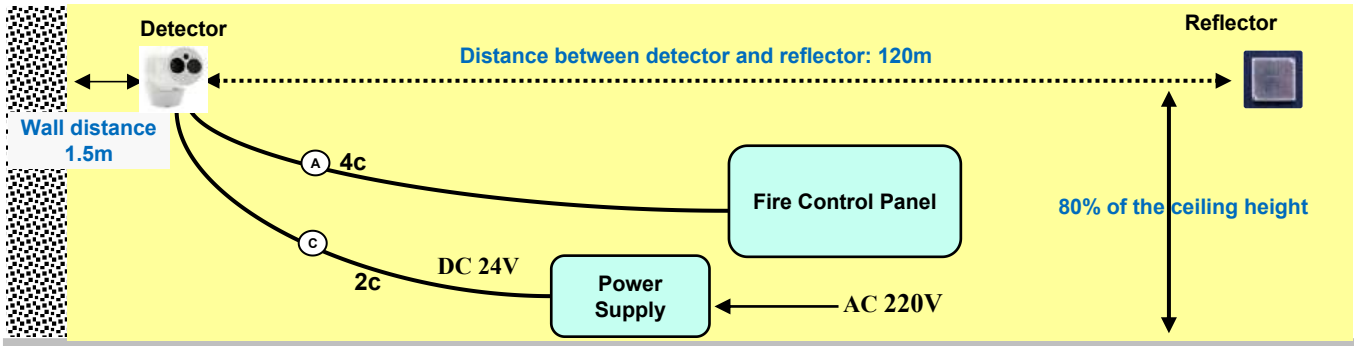
Mount on solid surfaces (structural wall or girder)

- ◆ Check the beam spacing against local regulations.
- ◆ Position beam as high as possible, but with a minimum distance of 0.5m from detector to ceiling.
- ◆ Mount detector and reflector directly opposite each other.
- ◆ Do NOT position detector where personnel or objects can enter the beam path.
- ◆ Do NOT position 2 detectors facing each other.
- ◆ LED indicator must face downward.

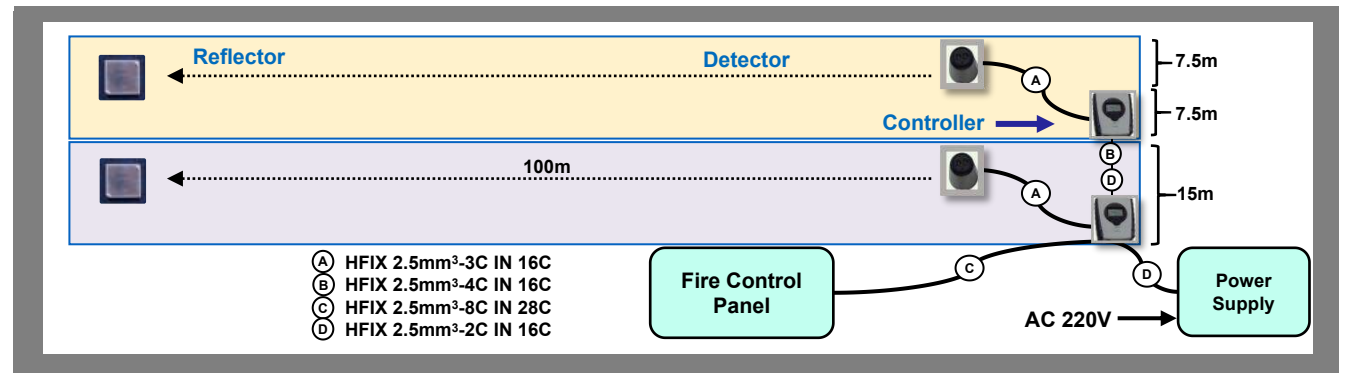
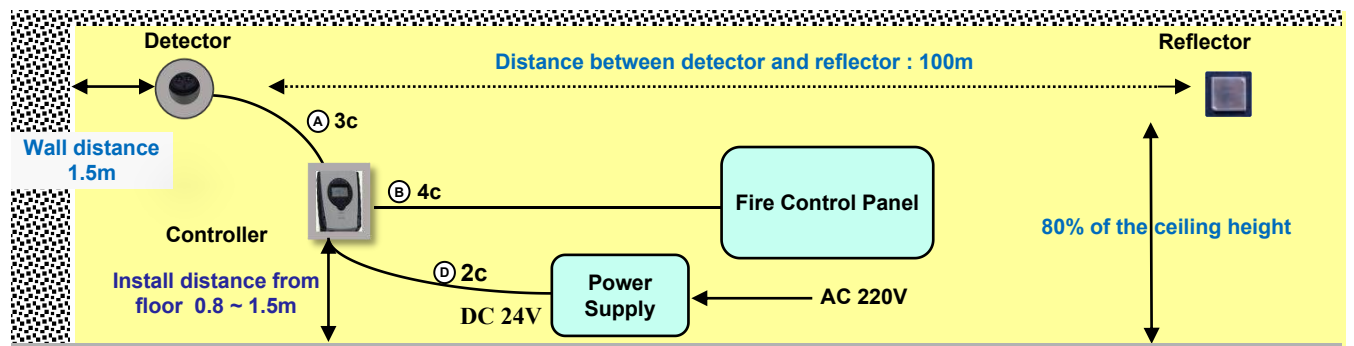


INSTALLTION GUIDE

No. HD1012



No. HD1016

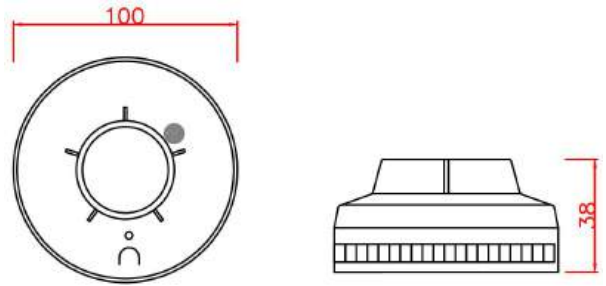


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SINGLE STATION SMOKE DETECTOR



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

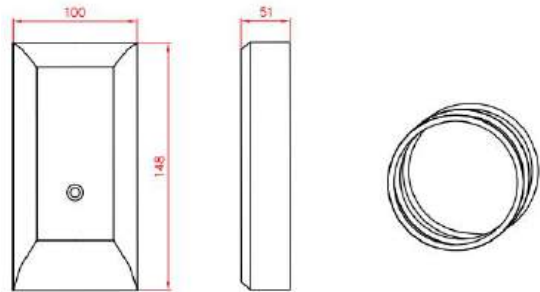
MODEL No	HD1003S
POWER SOURCE	PIN LITHIUM 3V
AMBIENT CONDITION	-10 °C TO 50 °C, 95% RH
SIZE/WEIGHT	Ø100mm x D38mm / 138g
OPERATING INDICATOR	LED-RED COLOR
INSTALLATION HEIGHT	UNDER 8m
RANGE OF DETECT	UNDER 4m: 150m ² / OVER 4m ~ UNDER 8m: 75m ²
APPLICATION	DETACHED HOUSE, STUDIO, ONE ROOM HOUSE, OFFICE, KARAOKE, ...

11

LINE TYPE PNEUMATIC RATE OF RISE HEAT DETECTOR



❖ PRODUCT DRAWINGS



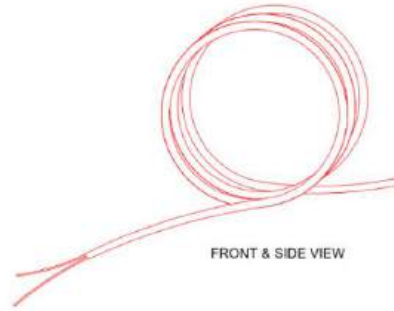
❖ SPECIFICATIONS

MODEL No	P102/P102-1
POWER SOURCE	DC24V / 10mA
AMBIENT CONDITION	-10 °C TO 50 °C, 95% RH
SIZE/WEIGHT	W100mm x H148mm x D51mm / 610g
PIPE DIAMETER	OUTSIDE: 2.0mm INSIDE : 1.4mm
INSTALLATION WIDTH	OVER 20m ~ UNDER 100m
RANGE OF DETECT	OVER 8m ~ UNDER 15m: 36m ²
STANDARD LENGTH	100m
APPLICATION	WASTEWATER TREATMENT PLANT, WAREHOUSE, BATTERY ROOM, GENERATOR ROOM, ENGINE ROOM, ...

12

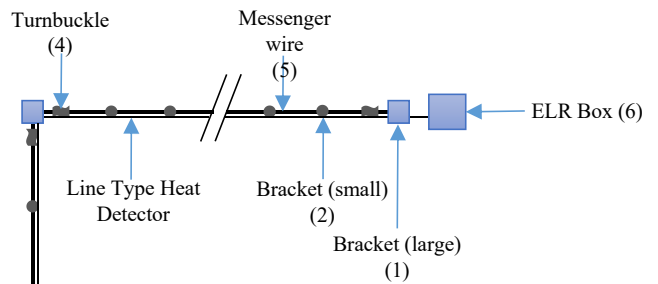
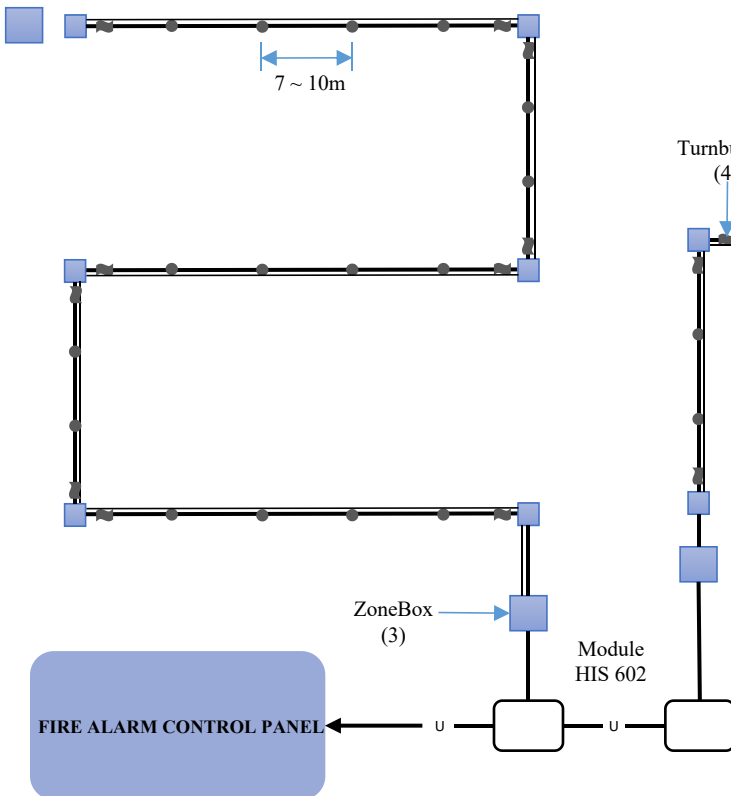
WIRE-TYPE HEAT DETECTOR

❖ **PRODUCT DRAWINGS**





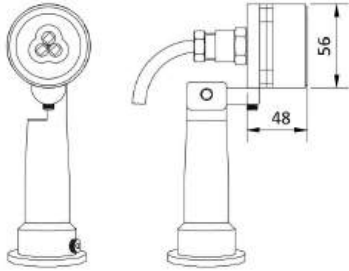
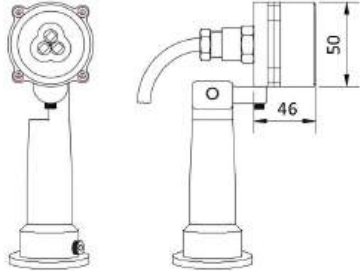
❖ **SPECIFICATIONS**

MODEL No	HD1008
POWER SOURCE	DC 24V / 10mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	DIAMETER 0,9 mm
OPERATING TEMPERATURE	70°C / 90°C / 120°C
INSTALLATION HEIGHT	UNDER 8m
STANDARD LENGTH	UNDER 1.200m
APPLICATION	BOILER ROOM, WELDING WORKSHOP, DRYING ROOM, SEWAGE DISPOSAL PLANT, PROJECTION ROOM, BURIED PIPE AND CULVERT, ...

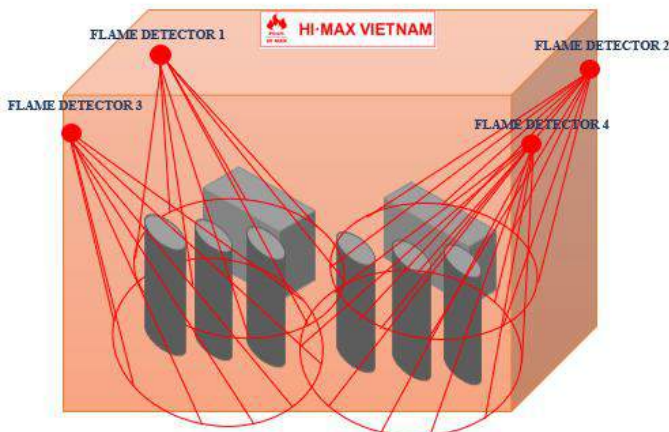
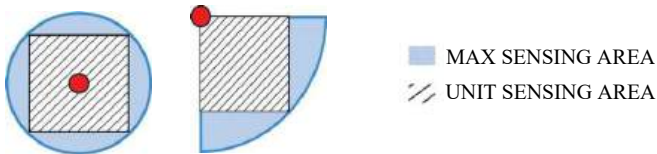


No	Installation Standard
1	Install the large rack in a straight line
2	Permanently install each small shelf section of 7-10m
3	Each zone will connect to a ZoneBox
4	Fixing screws - Bracket (large): 2EA Fixing screw - Bracket (small): 1EA
5	Attach the cable to the bracket
6	Connect a resistor at the end of the wire heat detector

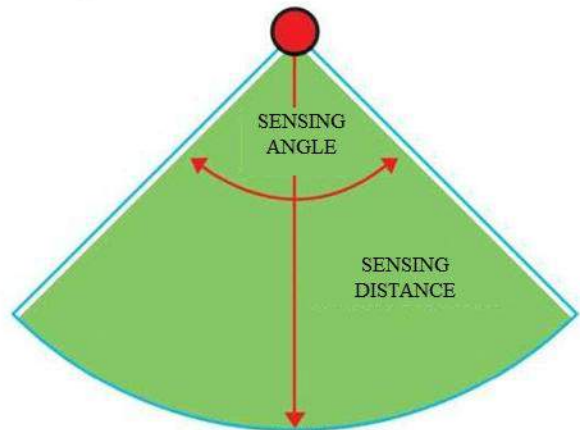
13 FLAME DETECTOR/ EXPLOSION PROOF FLAME DETECTOR

MODEL No	IRT-330-K	IRT-021-K
PRODUCT		
PRODUCT DRAWINGS		
SENSING ANGLE	90°	90°
POWER SOURCE	DC 24V	
AMBIENT CONDITION	-40°C to +85°C, 95% RH	
SIZE / WEIGHT	56mm x 48mm (580g)	50mm x 46mm (930g)
MATERIAL	ANODIZED ALUMINUM	STAINLESS STEEL
RANGE OF DETECT	50m	50m
TYPE	IR3	IR3 Ex d IIC T6, Ex tD A21 IP67 T85°C
APPLICATION	MUSEUM, GYMNASIUM, CONFERENCE, HOTEL LOUNGE, AIRPORT, ART CENTER, DOM BASEBALL PARK, FACTORY, PLANT, WAREHOUSE, CLEAN ROOM, ...	

❖ REFERENCE SENSING AREA

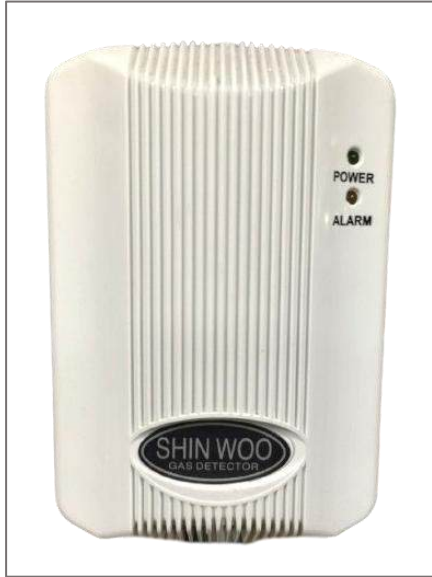


FLAME DETECTOR

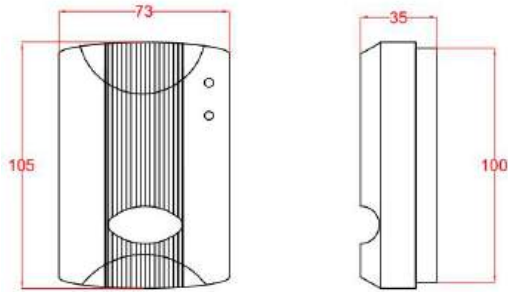


- ❑ Type of flame detector are different depending on the sensing angle and sensing distance.
- ❑ So, the Based on the reference sensing area of ceiling and wall to install the appropriate number.

14 GAS DETECTOR



❖ **PRODUCT DRAWINGS**



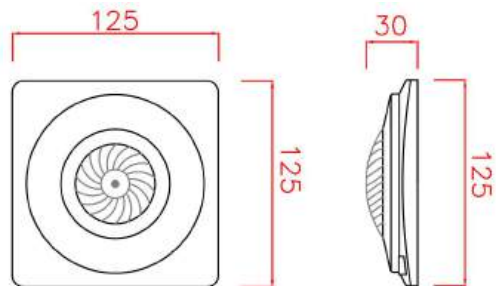
❖ **SPECIFICATIONS**

MODEL No	ND-114
POWER SOURCE	AC 220V, 50/60Hz
AMBIENT CONDITION	-20°C TO 40°C, 95% RH
SIZE/WEIGHT	W73mm x H105mm x D35mm / 220g
ALARM METHOD	YELLOW LED AND BUZZER
MEASURING GAS	LPG, LNG
POWER CONSUMPTION	3.6 W
APPLICATION	HAZARDOUS AREA, HOUSING, OFFICE, ...

15 STROBE



❖ **PRODUCT DRAWINGS**

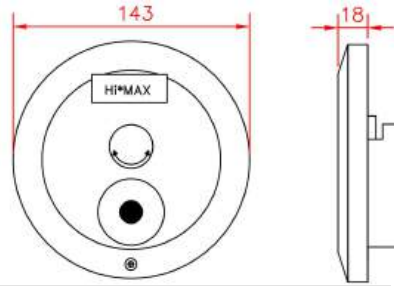


❖ **SPECIFICATIONS**

MODEL No	HE2006-1
POWER SOURCE	DC 24V / 120mA
AMBIENT CONDITION	-10 °C TO 50 °C, 95% RH
SIZE	W125mm x H125mm x D30mm / 100g
SOURCE OF LIGHT	HIGHT BRIGHTNESS LED
INSTALLATION HEIGHT	2.0m ~ 2.5m
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM, CONFERENCE ROOM, KARAOKE,...

16 MANUAL CALL POINT (CIRCLE)

❖ PRODUCT DRAWINGS

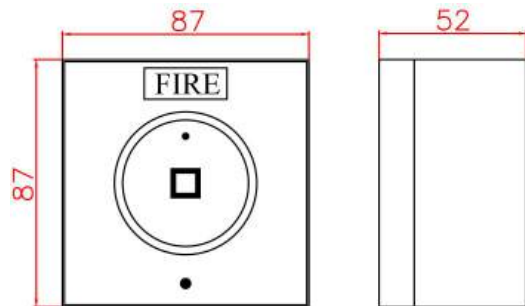


❖ SPECIFICATIONS

MODEL No	HE2001
POWER SOURCE	DC 24V / 100mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	Ø143mm x D18mm / 130g
COMPOSITION	TELEPHONE JACK, PUSH BUTTON, RESPONSE LED
INSTALLATION HEIGHT	0.8m ~ 1.5m / DISTANCE 25m
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM, CONFERENCE ROOM, KARAOKE, ...

17 MANUAL CALL POINT (SQUARE)

❖ PRODUCT DRAWINGS



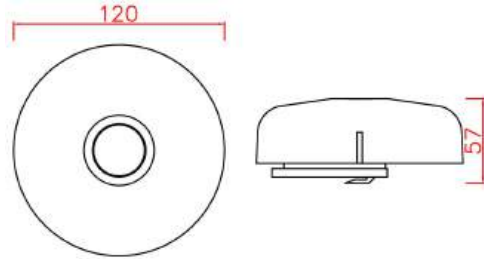
❖ SPECIFICATIONS

MODEL No	HE2001-1
POWER SOURCE	DC 24V / 100mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	W87mm x H87mm x D52mm / 143g
COMPOSITION	PUSH BUTTON, RESPONSE LED
INSTALLATION HEIGHT	0.8 ~ 1.5m / DISTANCE 25m
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM, CONFERENCE ROOM, KARAOKE, ...

18 ALARM BELL



❖ **PRODUCT DRAWINGS**



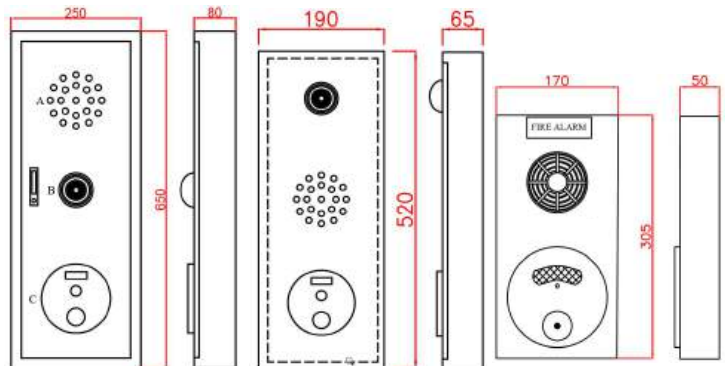
❖ **SPECIFICATIONS**

MODEL No	HE2002
RATED VOLATAGE	DC 24V / 50mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	Ø120mm x D57mm / 200g
SOUND OUTPUT	MORE THAN 90dB AT 1m
INSTALLATION HEIGHT	0.8 ~ 1.5m / DISTANCE 25m
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM, CONFERENCE ROOM, KARAOKE, ...

19 FIRE ALARM COMBINATION BOX



❖ **PRODUCT DRAWINGS**



❖ **SPECIFICATIONS**

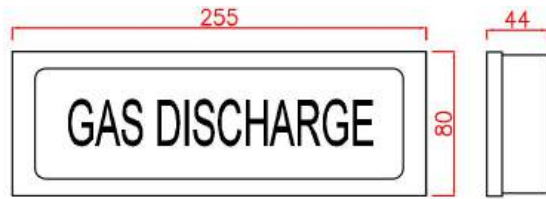
MODEL No (WALL MOUNT TYPE)	HM4007 (STEEL, INOX), HM4009 (STEEL) HM4009S (ABS)	
SIZE / WEIGHT	HM4007	W250mm x H650mm x D80mm / 4.5Kg
	HM4009	W190mm x H520mm x D65mm / 2.0Kg
	HM4009S	W170mm x H305mm x D50mm / 1.0Kg
INSTALLATION HEIGHT	0.8m ~ 1.5m / DISTANCE 25m	
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM, CONFERENCE ROOM, KARAOKE, ...	

20

**GAS DISCHARGE/
SIREN AND STROBE**



❖ **PRODUCT DRAWINGS**



❖ **SPECIFICATIONS**

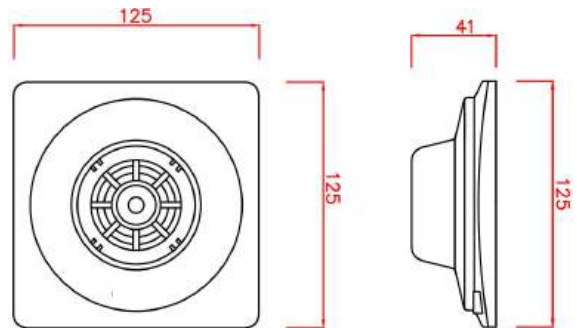
MODEL No	HM4004	HM4004S
POWER SOURCE	DC 24V / 250mA	DC 24V / 310mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH	
SIZE/WEIGHT	W255mm x H80mm x D44mm / 500g	Ø83mm x H125mm x D112mm / 470g
COLOR	IVORY	GREY
INSTALLATION HEIGHT	HEAD OF THE DOOR	
APPLICATION	ELECTRIC ROOM, COMPUTER ROOM, BUILDING SAFTY CENTER, CLEAN ROOM, ...	

21

ELECTRIC SIREN



❖ **PRODUCT DRAWINGS**



❖ **SPECIFICATIONS**

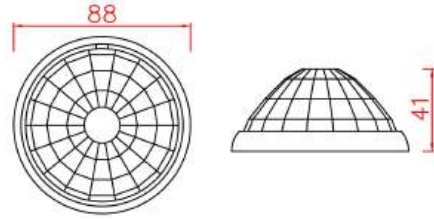
MODEL No	HR208S
POWER SOURCE	DC 24V / 60mA
SIZE/WEIGHT	W125mm x H125mm x D41mm / 158g
SOUND OUTPUT	MORE THAN 90dB AT 1m
COLOR	WHITE
INSTALLATION HEIGHT	2.0m ~ 2.5m
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM, CONFERENCE ROOM, KARAOKE, ...

22

INDICATING LAMP



❖ **PRODUCT DRAWINGS**



❖ **SPECIFICATIONS**

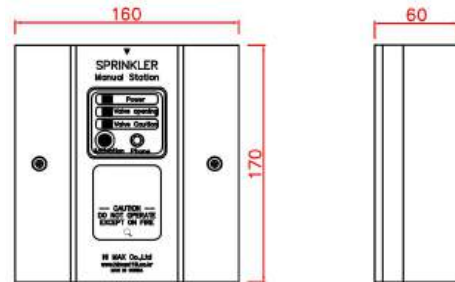
MODEL No	HE2003
POWER SOURCE	DC 24V / 30mA
AMBIENT CONDITION	10°C TO 50°C, 85% RH
SIZE/WEIGHT	Ø88mm x D41mm / 36g
SOURCE OF LIGHT	LED
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM, CONFERENCE ROOM, KARAOKE, ...

23

SPRINKLER MANUAL BUTTON



❖ **PRODUCT DRAWINGS**

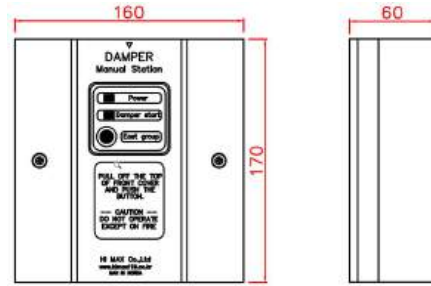


❖ **SPECIFICATIONS**

MODEL No	HM4001
POWER SOURCE	DC 24V / 100mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	W160mm x H170mm x D60mm / 550g
COMPOSITION	POWER LAMP, VALVE CAUTION LAMP, VALVE OPEN LAMP, VALVE ACTUATING SWITCH, TELEPHONE JACK
COLOR	GRAY
INSTALLATION HEIGHT	0.8m ~ 1.5m
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM, CONFERENCE ROOM, KARAOKE, ...

24 DAMPER MANUAL BUTTON

❖ PRODUCT DRAWINGS

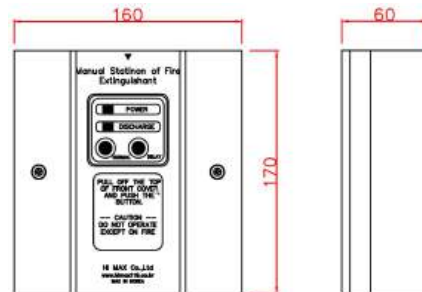


❖ SPECIFICATIONS

MODEL No	HM4003
POWER SOURCE	DC 24V / 100mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	W160mm x H170mm x D60mm / 550g
COMPOSITION	POWER LAMP, VALVE CAUTION LAMP, VALVE OPEN LAMP, VALVE ACTUATING SWITCH, TELEPHONE JACK
COLOR	GRAY
INSTALLATION HEIGHT	0.8m ~ 1.5m
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM, CONFERENCE ROOM, KARAOKE, ...

25 EXTINGUISHING GAS MANUAL BUTTON

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	HM4002
POWER SOURCE	DC 24V / 100mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	W160mm x H170mm x D60mm / 550g
COMPOSITION	POWER, GAS RELEASE INDICATOR, RELEASE THE PUSH BUTTON TYPE START SWITCH
COLOR	GRAY
INSTALLATION HEIGHT	0.8m ~ 1.5m
APPLICATION	ELECTRIC ROOM, COMPUTER ROOM, BUILDING SAFTY CENTER, CLEAN ROOM, ...

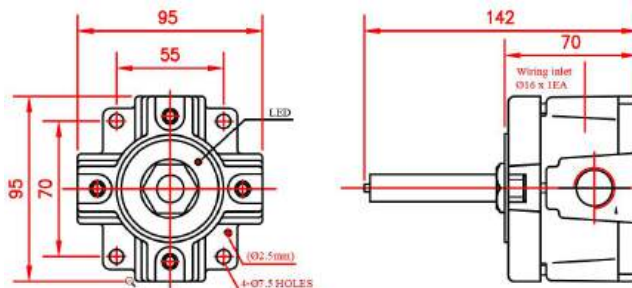
❖ Explosion Proof Type

26

**EXPLOSION PROOF
TYPE HEAT DETECTOR**



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

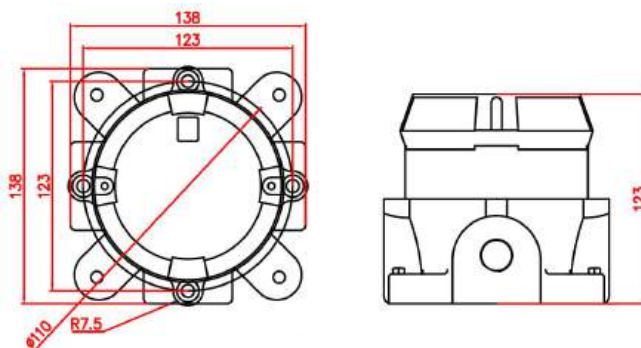
MODEL No	HK-EXFD 70
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
POWER SOURCE	DC 24V
AMBIENT CONDITION	-10°C TO MAX 20°C LOWER TO THE PERFORMANCE TEMPERATURE OF THE DETECTOR, MAX 95% RH
SIZE/WEIGHT	W95mm x H142mm x D95mm / 0.8Kg
OPERATING TEMPEATURE	70°C / 90°C / 120°C / 130°C
OPERATING INDICATOR	LED-RED COLOR
TYPICAL USAGE	MAX 50EA
INSTALLATION HEIGHT	UNDER 8m
RANGE OF DETECT	UNDER 4m : 70 m ² OVER 4m ~ UNDER 8m : 35m ²
APPLICATION	HAZARDOUS AREA

27

**EXPLOSION PROOF
TYPE SMOKE DETECTOR**



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	FSD
TYPE	EXPLOSION PROOF (Ex d IIC T6)
POWER SOURCE	DC 24V
SIZE/WEIGHT	W138mm x H123mm x D138mm / 1.8Kg
RANGE OF DETECT	UNDER 4m: 150m ² OVER 4m ~ UNDER 20m: 75m ²
APPLICATION	HAZARDOUS AREA

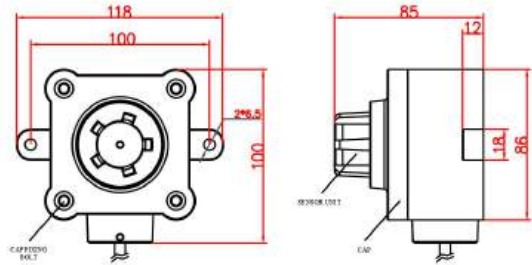
❖ Explosion Proof Type

28

**EXPLOSION PROOF TYPE
GAS MANUAL STATION**



❖ PRODUCT DRAWINGS



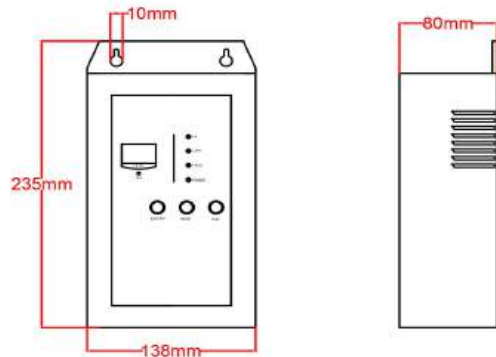
❖ SPECIFICATIONS

MODEL No	EX-301
TYPE	EXPLOSION PROOF (Ex d IIB T4)
MEASURING GAS	COMBUSTIBILITY GAS (LPG, LNG)
POWER SOURCE	DC 12V ~ 24V
OPERATING TEMPERATURE	- 20°C ~ + 50°C
SIZE	W100mm x H118mm x D85mm
APPLICATION	HAZARDOUS AREA

29

**GAS DETECTOR CONTROL
CABINET**

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS



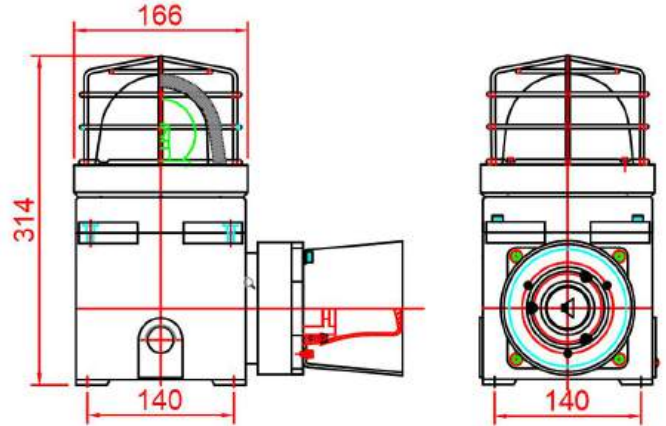
MODEL No	GRD-3000P
POWER SOURCE	AC 100 ~ 240V, 50/60 Hz
POWER CONSUMPTION	2.5W
SIZE	W138mm x H235mm x D80mm
MEASURING GAS	LNG / LPG
OPERATING TEMPERATURE	- 20°C ~ + 40°C
ALARM SOUND	MORE THAN 70dB AT 1m
INDICATOR LIGHT SIGNAL	YELLOW LIGHT (ALARM), RED LIGHT (ERROR), GREEN LIGHT (SOURCE)
APPLICATION	GAS STORAGE, GAS USING STATION, ...

❖ Explosion Proof Type

30

EXPLOSION PROOF TYPE ALARM SIGNAL & SIREN SIGNAL

❖ PRODUCT DRAWINGS



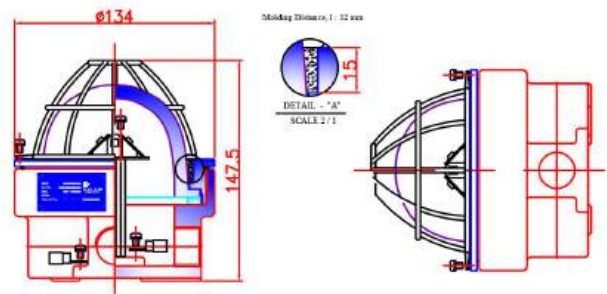
❖ SPECIFICATIONS

MODEL No	FXAL
TYPE	EXPLOSION PROOF (Ex d IIC T6 IP65)
POWER SOURCE	DC 24V
SIZE/WEIGHT	W140mm x H314mm x D309mm / 15Kg
MATERIAL	CASTING ALUMINUM ALLOY IP65
APPLICATION	HAZARDOUS AREA

31

EXPLOSION PROOF TYPE STROBE

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	FVA
TYPE	EXPLOSION PROOF (Ex d IIC T6 IP65)
POWER SOURCE	DC 24V
SIZE/WEIGHT	Ø134mm x 147.5mm
APPLICATION	HAZARDOUS AREA

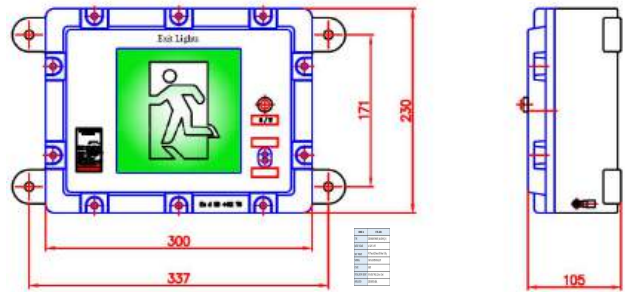
❖ Explosion Proof Type

32

EXPLOSION PROOF TYPE EXIT LIGHTING



❖ PRODUCT DRAWINGS



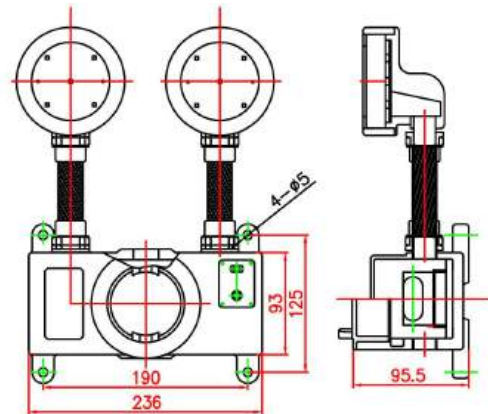
❖ SPECIFICATIONS

MODEL No	FUFL-LED-S
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
POWER SOURCE	AC 220V / 4.0W
SIZE/WEIGHT	W337mm x H230mm x D105mm / 8.3Kg
MATERIAL	CAST ALUMINUM ALLOY
COLOR	GRAY
INSTALLATION HEIGHT	ON A FLAT WALL (2.0m ~ 2.5m)
APPLICATION	HAZARDOUS AREA

33

EXPLOSION PROOF TYPE EMERGENCY LIGHTING

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

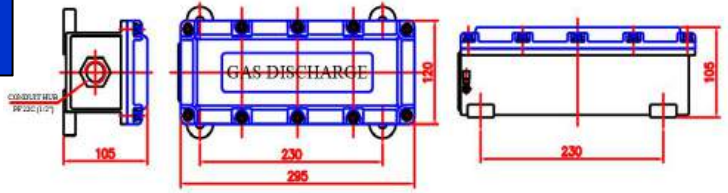
MODEL No	WC-14-3
TYPE	EXPLOSION PROOF (Ex d IIC T6 IP65)
POWER SOURCE	AC 220V
LIGHTING VOLTAGE	4.4V
STANDBY POWER	DC 4.8V, 1300mAh Ni-Cd
APPLICATION	HAZARDOUS AREA

❖ Explosion Proof Type

34

EXPLOSION PROOF GAS DISCHARGE WARNING LIGHT

❖ PRODUCT DRAWINGS



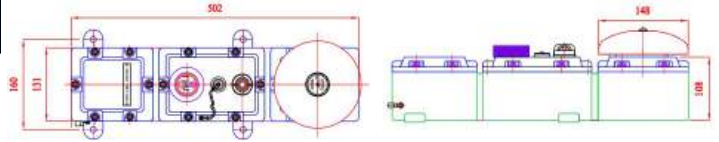
❖ SPECIFICATIONS

MODEL No	FUFL
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T ₆) CLOSE ON THE WALL (FLUSH)
POWER SOURCE	DC 24V / 100mA
SIZE/WEIGHT	W295mm x H120mm x D105mm / 4Kg
LIGHTING	LED LIGHTS
MATERIAL	ALUMINUM ALLOY
INSTALLATION HEIGHT	THE HEAD OF THE DOOR
APPLICATION	HAZARDOUS AREA

35

EXPLOSION PROOF TYPE FIRE ALARM MANUAL STATION

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	P-1
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T ₆) CLOSE ON THE WALL (FLUSH)
CONSIST	MANUAL CALL POINT RATED VOLTAGE: - DC 24V CONTACT RATING CURRENT: - NORMAL - 0mA, - CONTACT - 100mA ALARM BELL RATED VOLTAGE: - DC 24V CONTACT RATING CURRENT: - NORMAL - 0mA, - CONTACT - 50mA SOUND: MORE THAN 90dB AT 1M INLET PIPE SIZE: PF 28CX2EA
SIZE/WEIGHT	W190mm x H502mm x D152mm / 8.6Kg
INSTALLATION HEIGHT	0.8m ~ 1.5m
APPLICATION	HAZARDOUS AREA

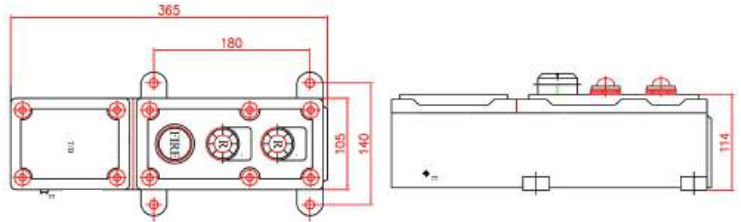
❖ Explosion Proof Type

36

**EXPLOSION PROOF TYPE
GAS MANUAL STATION**



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

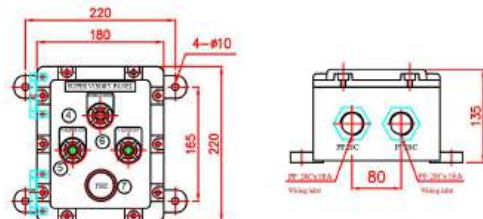
MODEL No	FMS
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
POWER SOURCE	DC 24V
SIZE/WEIGHT	W140mm x H365mm x D114mm / 5Kg
CONTACT RATING CURRENT	100mA
INSTALLATION HEIGHT	0.8m ~ 1.5m
APPLICATION	HAZARDOUS AREA

37

**EXPLOSION PROOF TYPE
SVP PANEL**



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	SVP
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T6 IP65) CLOSE ON THE WALL (FLUSH)
CONSIST	- POWER INDICATOR RATED VOLTAGE: DC 24V LED COLOR: RED - VALVE CAUTION LAMP RATED VOLTAGE: DC 24V LED COLOR: YELLOW - VALVE DISCHARGE LAMP RATED VOLTAGE: DC 24V LED COLOR: GREEN - TERMINAL BOX NUMBER OF POLES: 10P x 2EA, 20A - INLET PIPE SIZE: PF 3/4 x 2EA, PF 1 x 1EA
SIZE/WEIGHT	W220mm x H220mm x D135mm / 12Kg
INSTALLATION HEIGHT	0.8m ~ 1.5m
APPLICATION	HAZARDOUS AREA

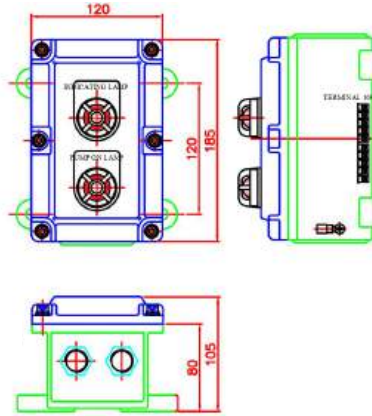
❖ Explosion Proof Type

38

EXPLOSION PROOF PUMP MONITOR LIGHT



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

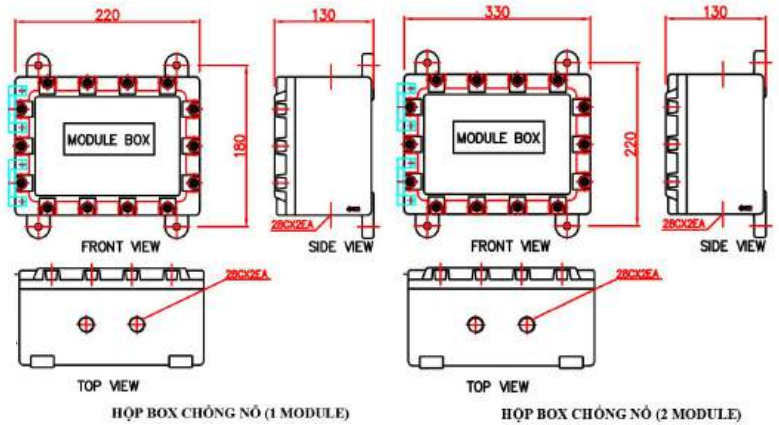
MODEL No	FOB-2
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
SIZE/WEIGHT	W120mm x H185mm x D105mm
APPLICATION	HAZARDOUS AREA

39

EXPLOSION PROOF TYPE JUNCTION & CONTROL BOX



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

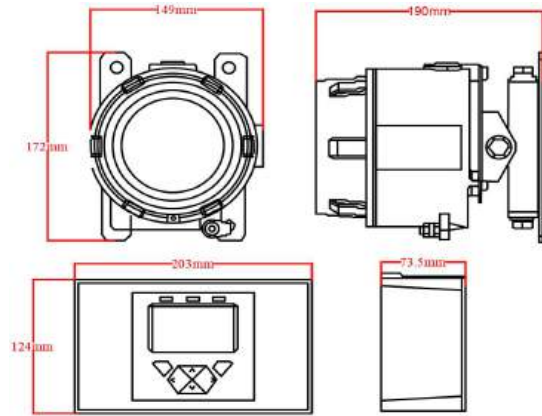
MODEL No	FCJB
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
COLOR	RED
APPLICATION	HAZARDOUS AREA
SIZE/WEIGHT	CUSTOM MADE

❖ Explosion Proof Type

40 EXPLOSIVE PROOF BEAM SMOKE DETECTOR



❖ PRODUCT DRAWINGS



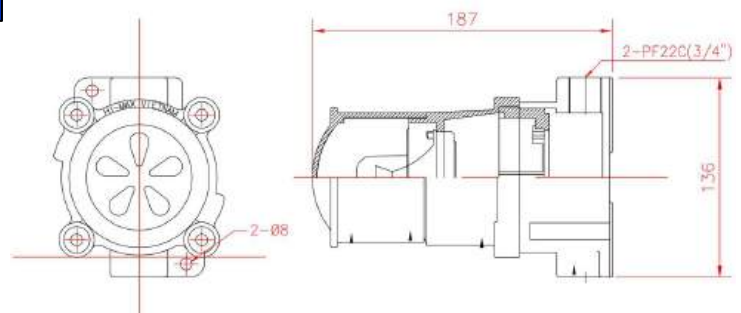
❖ SPECIFICATIONS

MODEL No	FIRERAY 3000 EXD
INSTALLATION HEIGHT	ABOVE 10m
DETECTION RANGE	FROM 5m TO 100m
POWER SOURCE	DC 12 – 36V ± 10%
AMBIENT CONDITION	-10°C TO 55°C
ACCREDITATION	(UL. CE) Ex II 2GD/ Ex db op is IIC T6 Gb/ Ex tb IIIC T85°C Db/ IP.66
APPLICATION	MUSEUM, SPORT ROOM, WORKSHOP ROOM, AIRPORT, EXHIBITION ROOM, BASEBALL, FACTORY, WAREHOUSE,...

41 EXPLOSION PROOF TYPE ELECTRIC SIREN



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	FP-FKEX
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
POWER SOURCE	DC 24V
SIZE/WEIGHT	H187mm x D136mm / 2Kg
CONTACT RATING CURRENT	400mA
SOUND OUTPUT	90dB AT 1M
INSTALLATION HEIGHT	2m ~ 2.5m
APPLICATION	HAZARDOUS AREA

42 ADDRESS CONTROL PANEL (R-TYPE) – STANDING TYPE

❖ SPECIFICATION



MODEL No	HIP600W
TYPE	ADDRESS TYPE (R-TYPE) - STANDING TYPE
POWER SOURCE	AC 220V, 50/60Hz
AMBIENT CONDITION	-10°C ~ 50°C, 95% RH
SIZE	W600mm x H2000mm x D600mm
SPECIFICATIONS	TYPE R, AC 220V, LCD DISPLAY, STORED IN DATA FORM TO CHECK THE OPERATION OF FIRE FIGHTING EQUIPMENT (INDOOR, OUTDOOR, SPRINKLER,...) FIRE ALARM (GAS, SMOKE ALARM, HEAT ALARM, BEAM,...)
LOOP	1 LOOP 250 ADDRESS (INPUT: 1000 / OUTPUT: 1000)
INPUT	16 LOOP x 250 ADDRESSES x 4 INPUTS = 16000 INPUTS
OUTPUT	16 LOOP x 250 ADDRESSES x 4 OUTPUTS = 16000 OUTPUTS
NETWORK	2WIRE TCP/IP, RS485 OR OPTICAL COMMUNICATION
ACCUMULATION TIME	30S-60S
RATED POWER	DC 24V / 15A
STANDBY POWER	DC 24V, 12Ah, Ni-Cd BATTERY
SCREEN	19" LCD (TOUCHSCREEN)
BOX MATERIAL	1.6mm STEEL
WEIGHT	120Kg
COLOR	BLACK

❖ SYSTEM FEATURES

Capable of monitoring and controlling connection addresses with high resolution graphic
 Check the operating position in each area, each location

❖ Performance and management issues

Search by display feature, sound warning
 Stored in Excel file and has print function

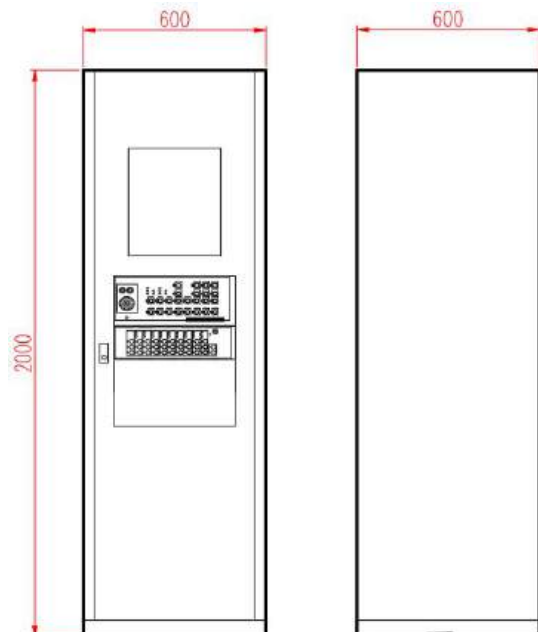
❖ Connect the sub cabinet

Ability to connect multiple sub-cabins
 Simple sub-cabinet connection monitoring

❖ Test function

Check the input and output of each address
 Isolate the input and output of each address
 Control connections per address
 Set density, temperature, Analog sensor address

❖ PRODUCT DRAWINGS



43 ADDRESS CONTROL PANEL (R-TYPE) – WALL TYPE

❖ SPECIFICATION



MODEL No	HIP600W
TYPE	ADDRESS TYPE (R-TYPE) - WALL TYPE
POWER SOURCE	AC 220V, 50/60Hz
AMBIENT CONDITION	-10°C ~ 50°C, 95% RH
SIZE	W600mm x H1000mm x D250mm
STANDBY POWER	DC 24V, 12Ah, Ni-Cd BATTERY
RATED POWER	DC 24V / 15A
LOOP	1 LOOP 250 ADDRESS (INPUT: 1000 / OUTPUT: 1000)
INPUT	16 LOOP x 150 ADDRESSES x 4 INPUTS = 16000 INPUTS
OUTPUT	16 LOOP x 150 ADDRESSES x 4 OUTPUTS = 16000 OUTPUTS
MAXIMUM OF LOOPS	24 LOOP
ACCUMULATION TIME	30S-60S
NETWORK	2WIRE TCP/IP, RS485 OR OPTICAL COMMUNICATION
BOX MATERIAL	1.6mm STEEL
COLOR	BLACK

❖ SYSTEM FEATURES

Capable of monitoring and controlling connection addresses with high resolution graphic
Check the operating position in each area, each location

❖ Performance and management issues

Search by display feature, sound warning
Stored in Excel file and has print function

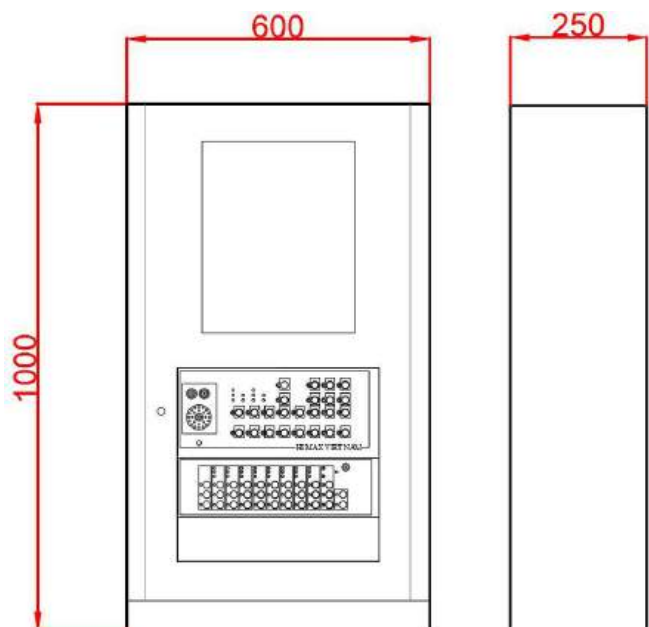
❖ Connect the sub cabinet

Ability to connect multiple sub-cabinets
Simple sub-cabinet connection monitoring

❖ Test function

Check the input and output of each address
Isolate the input and output of each address
Control connections per address
Set density, temperature, Analog sensor address

❖ PRODUCT DRAWINGS



44 ADDRESS CONTROL PANEL (R-TYPE) – WALL TYPE



❖ SPECIFICATION

MODEL No	HIP600W
TYPE	ADDRESS TYPE (R-TYPE) - WALL TYPE
POWER SOURCE	AC 220V, 50/60Hz
AMBIENT CONDITION	-10°C ~ 50°C, 95% RH
SIZE	W500mm x H800mm x D150mm
RATED POWER	DC24V / 10A
STANDBY POWER	DC 24V, 8Ah, Ni-Cd BATTERY
LOOP	1 LOOP 250 ADDRESSES (INPUT: 1000 / OUTPUT: 1000)
MAXIMUM OF LOOPS	MAX 4 LOOP (INPUT: 4000 / OUTPUT: 4000)
COMMUNICATION METHOD	MODULE: ADDRESS LOCATION / RS485 / CONTROL CENTER: TCP/IP
FIRE ALARM HISTORY	100.000
COLOR	BLACK

❖ SYSTEM FEATURES

Capable of monitoring and controlling connection addresses with high resolution graphic
 Check the operating position in each area, each location

❖ Performance and management issues

Search by display feature, sound warning
 Stored in Excel file and has print function

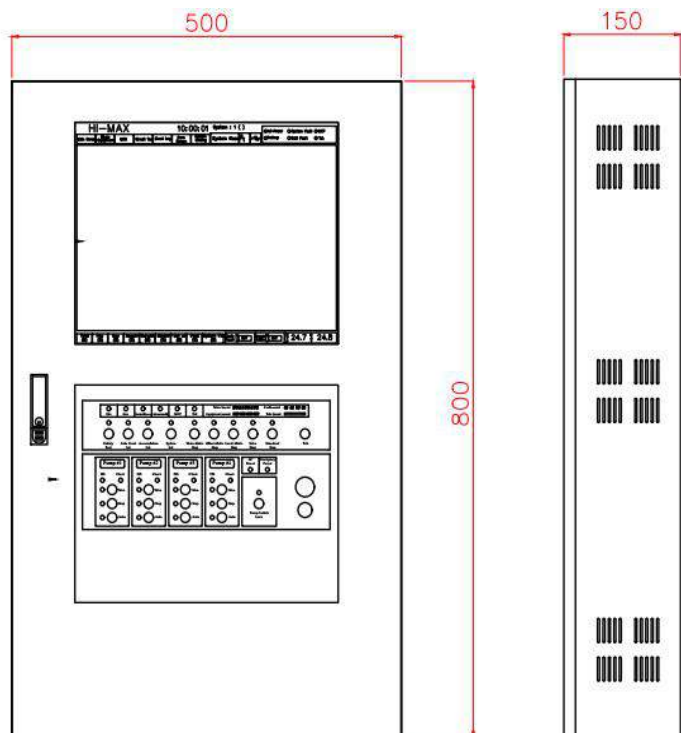
❖ Connect the sub cabinet

Ability to connect multiple sub-cabinets
 Simple sub-cabinet connection monitoring

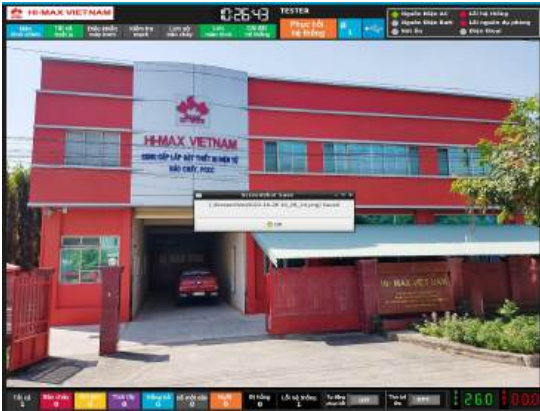
❖ Test function

Check the input and output of each address
 Isolate the input and output of each address
 Control connections per address
 Set density, temperature, Analog sensor address

❖ PRODUCT DRAWINGS



GRAPHIC USER INTERFACE



Screenshot function
Save the current screen image



Control screen
It can stop signals interlocked with the fire signal for a sound device, and each equipment



Fire alarm display screen
Automatically opens the first fire alarm display window



The screen displays the operating status of each module
Each loop module input and output operation status display on the screen



Module circuit operating conditions and test circuits
Module input and output displays the operating status of the facility
Each module test input and output



Operational records display screens
Each problem, date of occurrence search function
Quick check to a representative color display
Printer output function and save excel file

❖ GRAPHIC USER INTERFACE



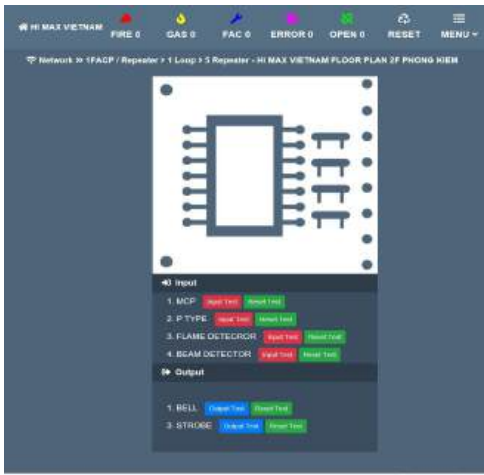
❖ Main display screen

Display company images and feature items that make it easy for users to monitor as well as access



❖ Display the fire alarm screen

Automatically open a window displaying the location on the diagram when a fire alarm signal is received



❖ The screen displays module information

Indicates which fire alarm device the input/output of the module is connected to and the ability to test the circuit



❖ The screen displays sensor information

Indicates the current temperature increase rate or smoke concentration of the fire detector



❖ The screen displays loop information

Indicates the number of addresses on a loop and whether the current address is a detector or module



❖ The screen displays system history

Save system activity information for each specific date and time

OPERATION PRINCIPLES OF ADDRESSED FIRE ALARM SYSTEM (HIP 600W)

ADDRESS TYPE FIRE ALARM



ADDRESSED TYPE FIRE ALARM CENTER CABINE



CONNECT AUXILIARY LOOP CABINET



CONNECT TO 150 EA

NORMAL TYPE FIRE ALARM



FM 200 GAS EXHAUST SYSTEM



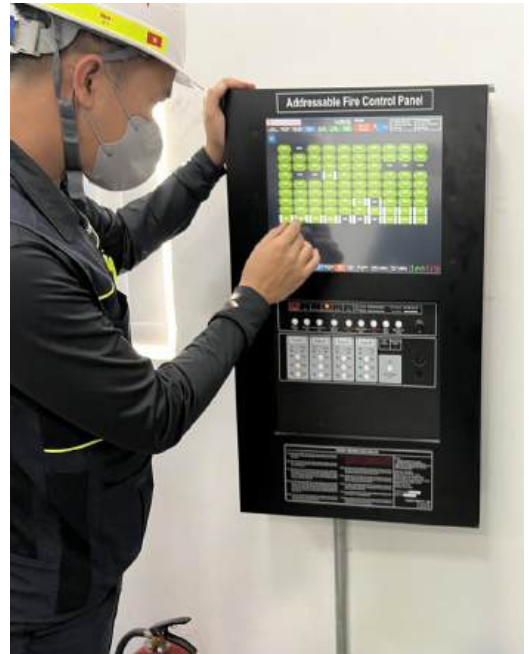
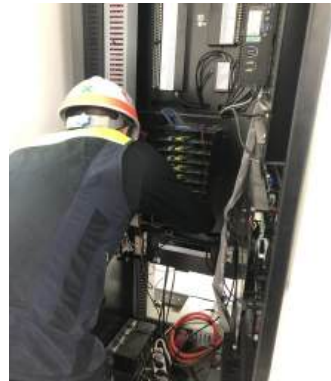
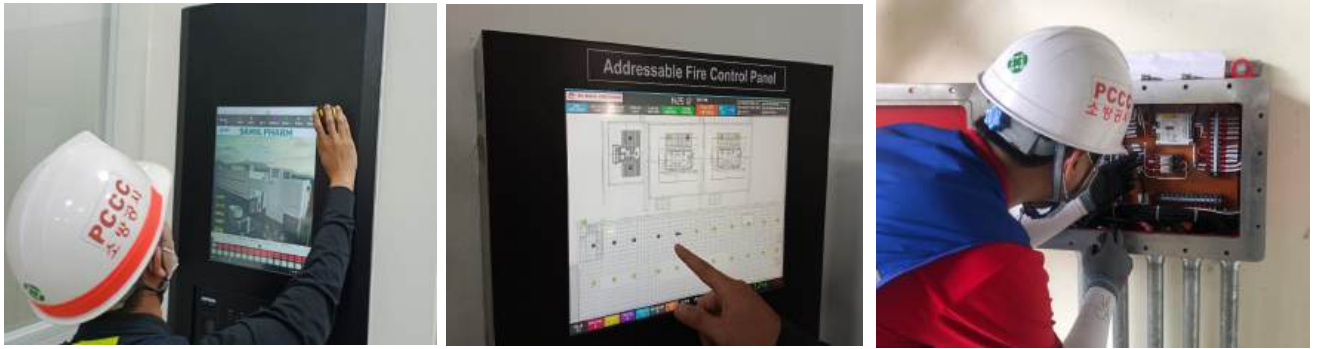
EXPLOSION-PROOF TYPE FIRE ALARM



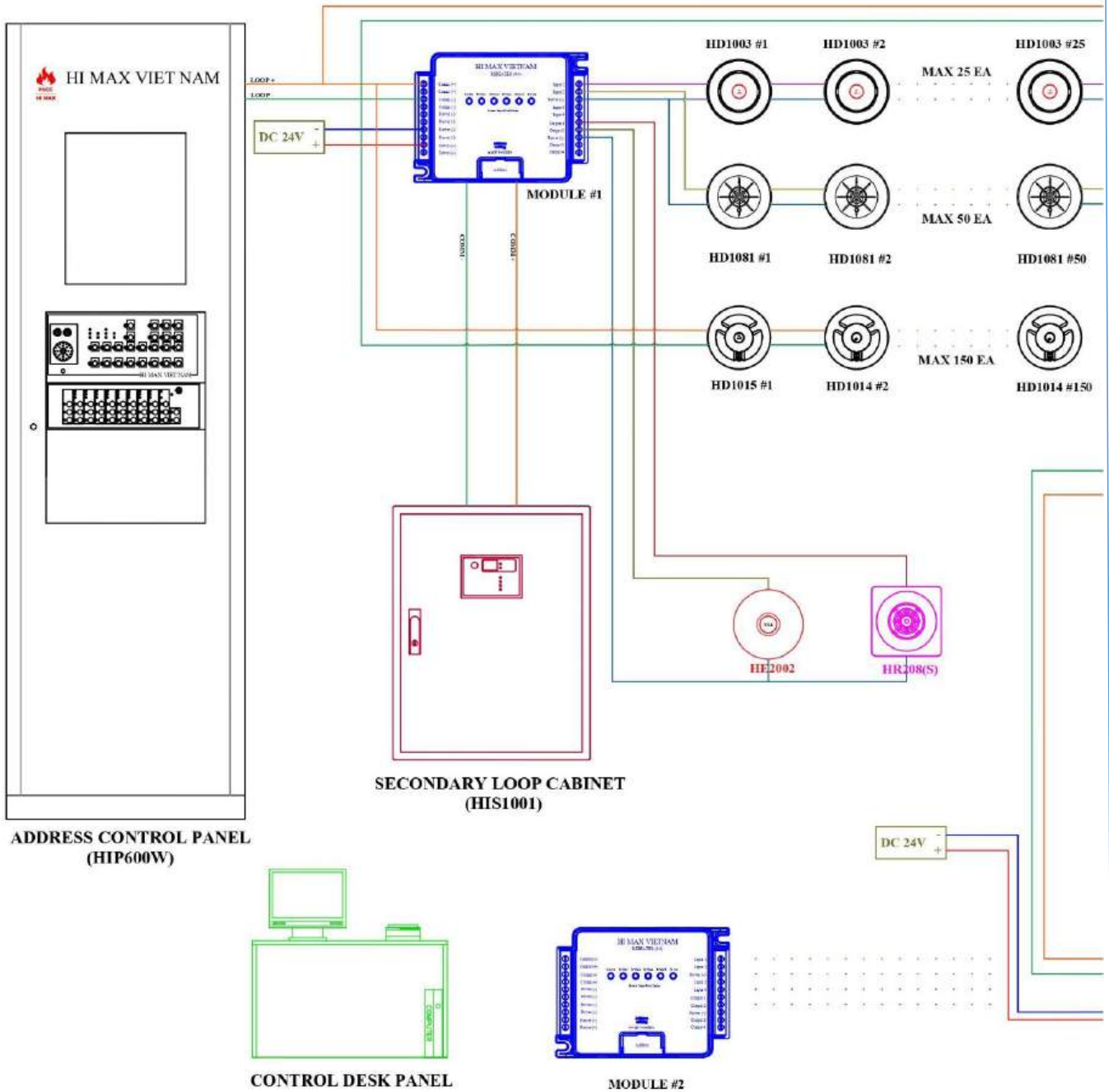
FIRE SYSTEM

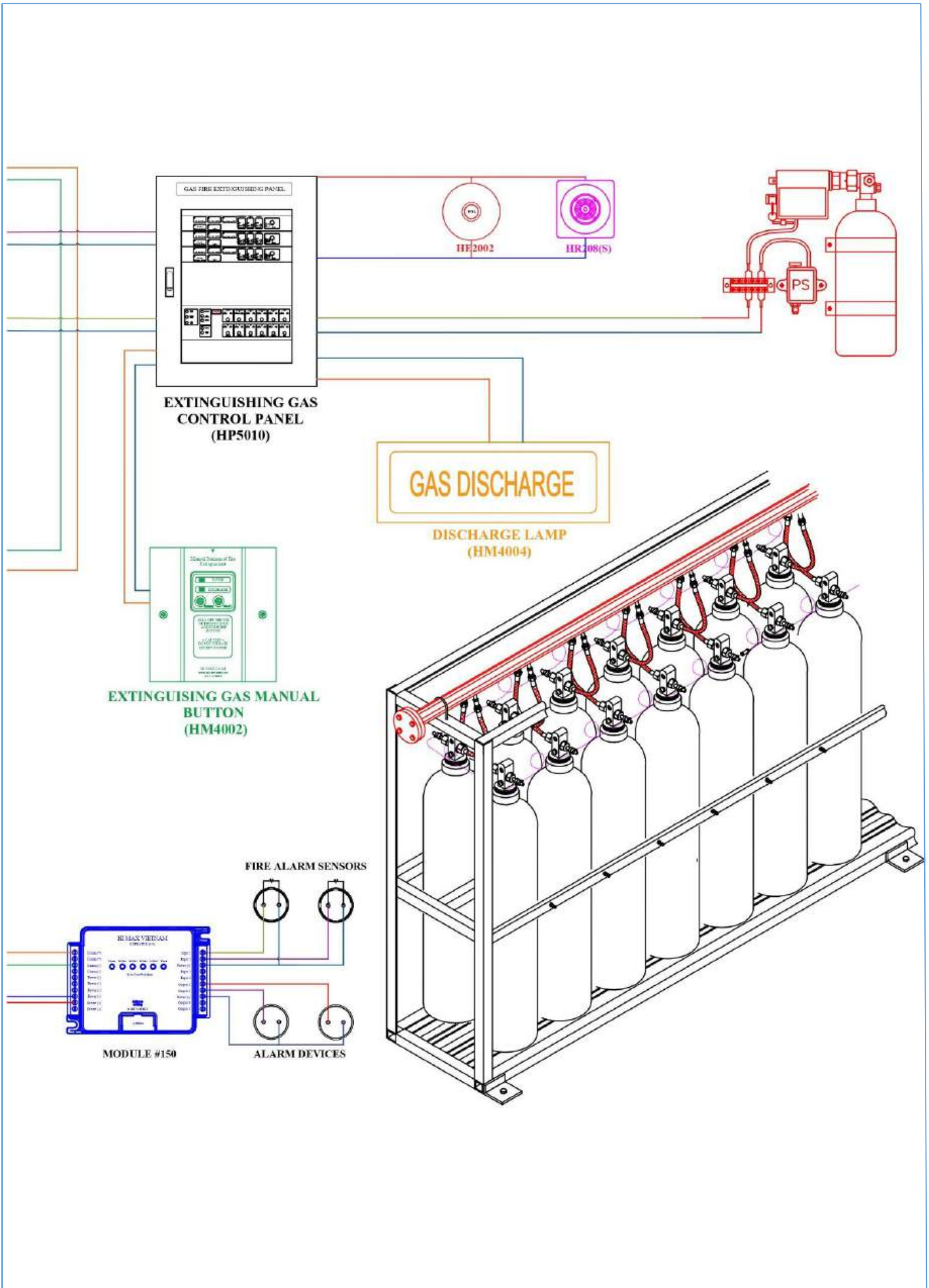


❖ IMAGES OF INSTALLATION AND OPERATION OF R-TYPE ADDRESSAL FIRE ALARM CENTER CABINET



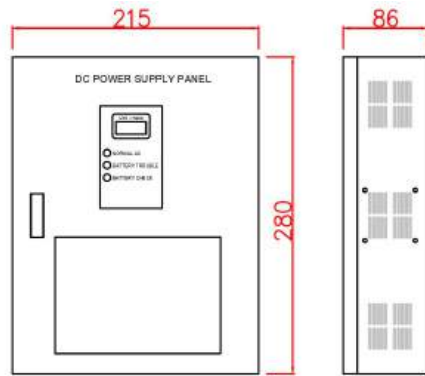
❖ CONNECTION DIAGRAM OF ADDRESSED FIRE ALARM SYSTEM





45 DC POWER SUPPLY 24V 5A

❖ PRODUCT DRAWINGS

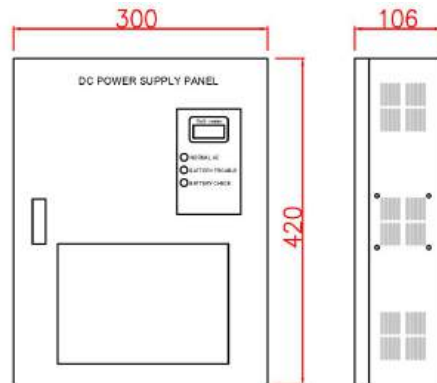


❖ SPECIFICATIONS

MODEL No	HR6023
TYPE	WALL MOUNT
POWER SOURCE	AC 220V, 50/60 Hz
SIZE/WEIGHT	W215mm x H280mm x D86mm / 3Kg
OUTPUT VOLTAGE	DC 24V, 5A
STANDBY POWER	Ni-Cd 24V / 0.6Ah
APPLICATION	SAFETY CENTER WORKS, NEAR CABINET CENTER CONTROL, ...

46 DC POWER SUPPLY 24V 15A

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

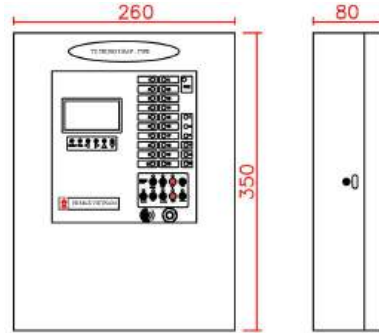
MODEL No	HR6023
TYPE	WALL MOUNT
POWER SOURCE	AC 220V, 50/60 Hz
SIZE/WEIGHT	W300mm x H420mm x D106mm / 7Kg
OUTPUT VOLTAGE	DC 24V, 15A
STANDBY POWER	Ni-Cd 24V / 2.6Ah
APPLICATION	SAFETY CENTER WORKS, NEAR CABINET CENTER CONTROL, ...

47

FIRE ALARM CONTROL PANEL (P-TYPE)



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

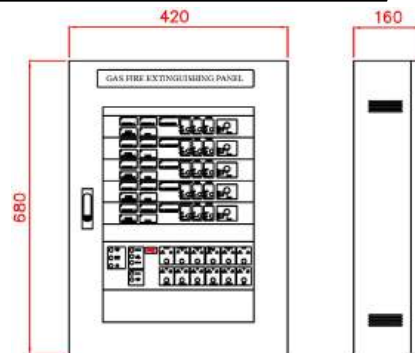
MODEL No	HP5020
POWER SOURCE	AC 220V, 50/60Hz
AMBIENT CONDITION	-10 °C TO 50 °C, 95% RH
CONTROL VOLTAGE	DC 24V
EMERGENCY SOURCES	PIN Ni-Cd 24V / 0.9Ah
MATERIAL/COLOR	STEEL PLATE 1.2t / CUSTOM MADE
POWER CONSUMPTION	125 W
NUMBER OF ZONES	ACCORDING TO CUSTOMER REQUIREMENTS (5 ZONES, 10 ZONES, 20 ZONES, ...)
APPLICATION	BUILDING SAFETY CENTER, SECURITY OFFICE,....

48

EXTINGUISHING GAS CONTROL PANEL



❖ PRODUCT DRAWINGS



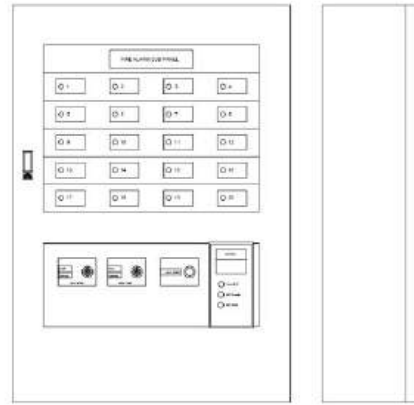
❖ SPECIFICATIONS

MODEL No	HP5010
POWER SOURCE	AC 220V, 50/60Hz
AMBIENT CONDITION	-10 °C TO 50 °C, 95% RH
CONTROL VOLTAGE	DC 24V
EMERGENCY SOURCES	PIN Ni-Cd 24V / 1.3Ah
MATERIAL/COLOR	STEEL PLATE 1.2t / CUSTOM MADE
POWER CONSUMPTION	125 W
NUMBER OF ZONES	ACCORDING TO CUSTOMER REQUIREMENTS (3 ZONES, 5 ZONES, 10 ZONES, ...)
APPLICATION	BUILDING SAFETY CENTER, CHEMICAL ROOM ,....

49 FIRE ALARM SUB PANEL (P-TYPE)



❖ PRODUCT DRAWINGS

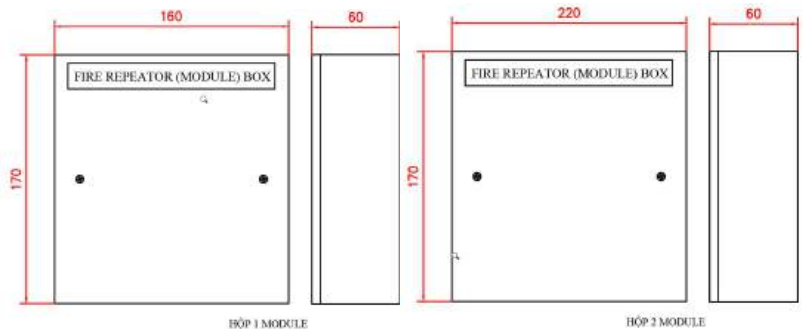


❖ SPECIFICATIONS

MODEL No	HP5020
TYPE	CUSTOM MADE
POWER SOURCE	
SIZE/WEIGHT	
CONTROL VOLTAGE	
STANDBY POWER	
APPLICATION	

50 MODULE BOX

❖ PRODUCT DRAWINGS



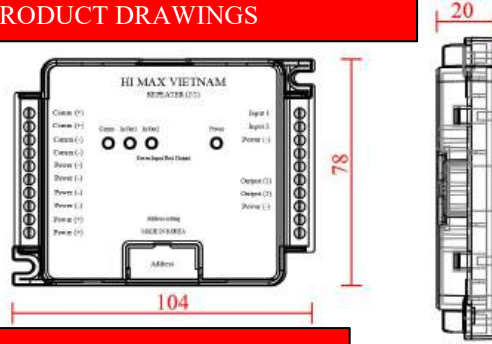
❖ SPECIFICATIONS

MODEL No	HR613	HR613(S)
TYPE	FLAT WALL MOUNT	FLAT WALL MOUNT
SIZE	W160mm x H170mm x D60mm EXPOSED ABS	W160mm x H170mm x D60mm (1 Module) W220mm x H170mm x D60mm (2 Module) COVER W182mm x H193mm
COLOR	GRAY	IVORY
NOTE	ABLE TO INCLUDE REPEATER 1EA	ABLE TO INCLUDE REPEATER 1EA-2EA. MADE TO ORDER: OVER 2EA



51 MODULE 2/2

❖ PRODUCT DRAWINGS

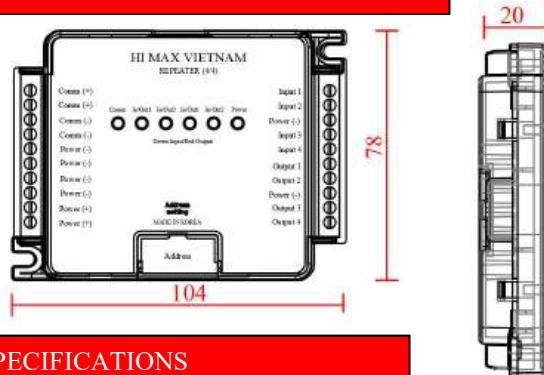


❖ SPECIFICATIONS

MODEL No	HIS602
POWER SOURCE	DC 24V
AMBIENT CONDITION	-10°C ~ 50°C, 95% RH
SIZE/WEIGHT	W104mm x H78mm x D20mm / 100g
TYPE	R-TYPE / ADDRESS
INPUT/OUTPUT	2/2
APPLICABLE LIMITATIONS	FOR ADDRESSABLE FIRE ALARM CENTRAL CABINET
POWER CONSUMPTION	SUPERVISE: 3mA, ACTIVE: 3mA
OUTPUT POWER	DC 24V, 0.8A
CONNECT THE DETECTOR	HEAT DETECTOR: 50 EA/MODULE SMOKE DETECTOR: 25 EA/MODULE

52 MODULE 4/4

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

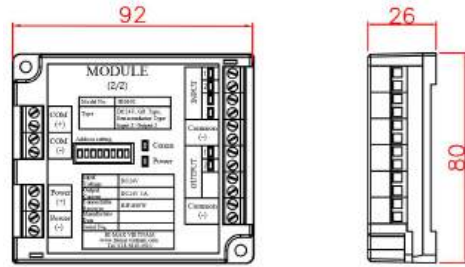
MODEL No	HIS604
POWER SOURCE	DC 24V
AMBIENT CONDITION	-10°C ~ 50°C, 95% RH
SIZE/WEIGHT	W104mm x H78mm x D20mm / 100g
TYPE	R-TYPE / ADDRESS
INPUT/OUTPUT	4/4
APPLICABLE LIMITATIONS	FOR ADDRESSABLE FIRE ALARM CENTRAL CABINET
POWER CONSUMPTION	SUPERVISE: 3mA, ACTIVE: 3mA
OUTPUT POWER	DC 24V, 0.8A
CONNECT THE DETECTOR	HEAT DETECTOR: 50 EA/MODULE SMOKE DETECTOR: 25 EA/MODULE

53

MODULE 2/2



❖ **PRODUCT DRAWINGS**

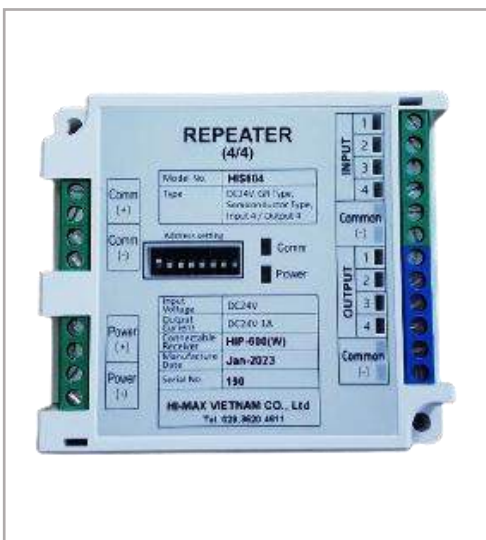


❖ **SPECIFICATIONS**

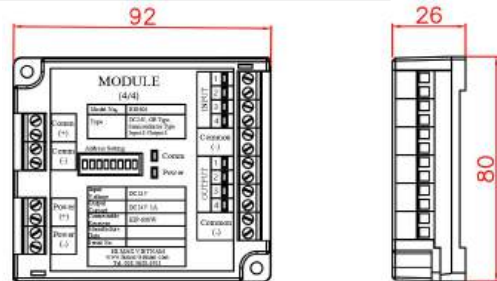
MODEL No	HIS602
POWER SOURCE	DC 24V
AMBIENT CONDITION	-10 °C ~ 50 °C, 95% RH
SIZE/WEIGHT	W92mm x H80mm x D26mm / 130g
TYPE	R-TYPE / ADDRESS
INPUT/OUTPUT	2/2
APPLICABLE LIMITATIONS	FOR ADDRESSABLE FIRE ALARM CENTRAL CABINET
POWER CONSUMPTION	SUPERVISE: 6mA, ACTIVE: 35mA
OUTPUT POWER	DC 24V, 1A
CONNECT THE DETECTOR	HEAT DETECTOR: 50 EA/MODULE SMOKE DETECTOR: 25 EA/MODULE

54

MODULE 4/4



❖ **PRODUCT DRAWINGS**



❖ **SPECIFICATIONS**

MODEL No	HIS604
POWER SOURCE	DC 24V
AMBIENT CONDITION	-10 °C ~ 50 °C, 95% RH
SIZE/WEIGHT	W92mm x H80mm x D26mm / 130g
TYPE	R-TYPE / ADDRESS
INPUT/OUTPUT	4/4
APPLICABLE LIMITATIONS	FOR ADDRESSABLE FIRE ALARM CENTRAL CABINET
POWER CONSUMPTION	SUPERVISE: 24mA, ACTIVE: 70mA
OUTPUT POWER	DC 24V, 1A
CONNECT THE DETECTOR	HEAT DETECTOR: 50 EA/MODULE SMOKE DETECTOR: 25 EA/MODULE

55

GAS PACKAGE HOSE REEL



PACKAGE 1 Bottle

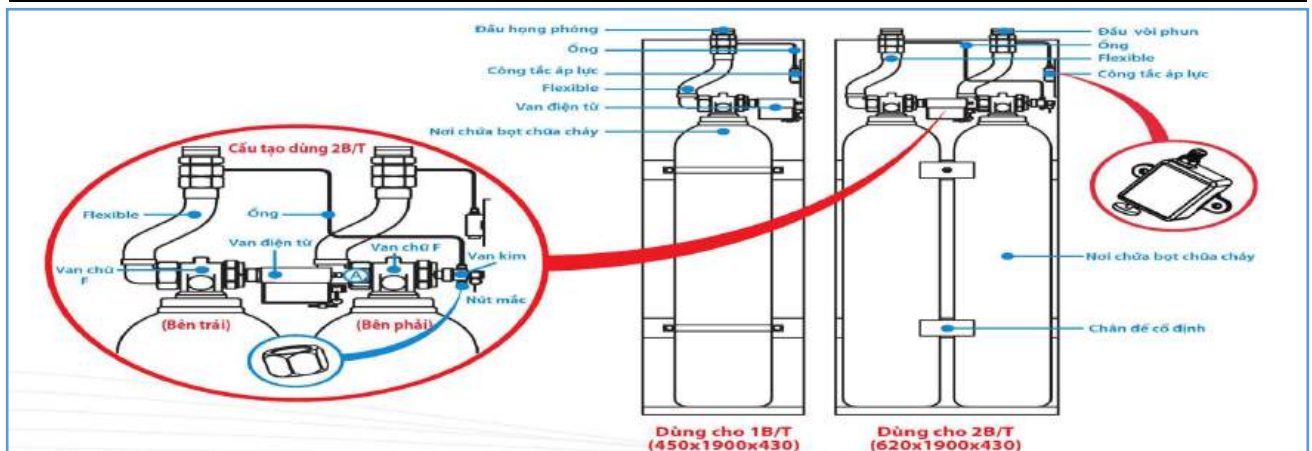


PACKAGE 2 Bottle



CO2 Hose reel(15M)

No	PRODUCT NAME	SPECIFICATIONS	BUILT IN GAS WEIGH T (Kg)	NON BUILT IN GAS WEIGHT (Kg)	PROTECTION AREA (m ³)	MODEL NO.
1	HFC-23 (PACKAGE)	30kg x 1BOTTLE	190	160	46.7	HF30-1
2		43kg x 1BOTTLE	203	160	66.9	HF43-1
3		50kg x 1BOTTLE	210	160	77.8	HF50-1
4		86kg x 2BOTTLE	331	245	133.8	HF86-2
5		100kg x 2BOTTLE	345	245	155.6	HF100-2
6	HCFC-BLEND (PACKAGE)	35kg x 1BOTTLE	195	160	56.5	HC35-1
7		50kg x 1BOTTLE	210	160	80.7	HC50-1
8		100kg x 2BOTTLE	345	245	161.5	HC100-2
9	HFC-222ea (FM200) (PACKAGE)	50kg x 1BOTTLE	210	160	67.6	HMF50-1
10		75kg x 1BOTTLE	235	160	101.4	HMF75-1
11		100kg x 2BOTTLE	345	245	135.2	HMF100-2
12		150kg x 2BOTTLE	445	245	202.8	HMF150-2
13	HFC-125 (PACKAGE)	50kg x 1BOTTLE	210	160	71.6	HFC50-1
14		100kg x 2BOTTLE	345	245	143.1	HFC100-2
15	CO ₂ (carbon dioxide) (PACKAGE)	45kg x 1BOTTLE	205	160	45	CO ₂ 45-1
16		90kg x 2BOTTLE	335	245	90	CO ₂ 9-2
17	HOSE REEL CO ₂ (15M)	90kg x 2BOTTLE	335	245	Direct Digestion	CO ₂ H-15





➤ **SPECIFICATIONS & MAIN FUNCTIONS**

1. Definition and characteristics of automatic fire extinguishing gas system-FM 200

- Automatic fire extinguishing gas system of cabinet type is a device for sensing heat or smoke, which is born from a fire with the structure of components such as sensor, nozzle, hose reel, lamp of powder-containing parts, etc. receiving, operating equipment, automatically emitting under the pressure of the fire-fighting foam towards the fire and in the event of a power failure, after switching to the standby power source will perform the above function.
- The ability to extinguish the fire by the method of effective fire extinguishing, after the fire, there are no leftovers so minimize damage on the equipment.
- When there is a fire, because of fire by automatic fire extinguishing, so even at night, even where there are no people, there is no need to worry.
- On the periphery outside the protective area, install a fire extinguisher by hand so that fire foam can be released outside the door. The cabinet will switch to using backup power (Ni-Cd 24V) when there is a power failure.

2. Specifications

Input	AC220V, 50/60Hz	Backup source	Ni-Cd Battery DC24V/ 600mA
Solenoid valve	DC24V, MAX 1.5A	Pressure switch	DC24V 3A, impact pressure – 5Kg/m ³
Warning output	Warning by sound or electric bell	Product color	White powder coating (EK427K)
Nozzle	Fire extinguishing gas discharge		
Peripherals	Sensor (A, B), manual fire box, indicator light discharge		
Size	1 B/T: W450 x H1900 x D430, 2 B/T: W620 x H1900 x D430		

❖ **AUTOMATIC FIRE EXTINGUISHING GAS SYSTEM-FM 200**

- ❖ The standby source uses Ni-Cd DC24V/600mAh, which can indicate 24V, 20V depending on the status of the reserve power, in case the power supply is below 18V, the sensor light of the standby power is on. (Power under 85% 20.4V lamp is turned on)
- ❖ When testing the standby power supply, the status of the standby power status shall be shown to be out, if more than 2 seconds of the standby power switch is pressed, the voltage will be indicated.
- ❖ In case when the normal power of 220V is blocked, when returning to the source, it will automatically switch to the normal power source.
- ❖ Structure of the circuit represents the safety system by the structure of tame semiconductors and intermediate devices.
- ❖ Resistors A, B of the sensor use 10KΩ, the circuit breaker test applies the mutual sensor circuit to the design including the testing position.
- ❖ Application of separate device warnings and switches made to the BEEP sound emitting switch.
- ❖ The signal received from the external input is made up of discontinuous circuits, the circuit structure in order to minimize noise and external interference.

4. Displays operating status and manual starter

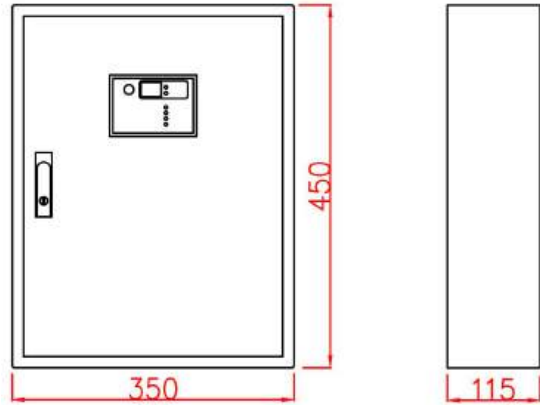
- ❖ The display unit has a fire and motion is turned on in the form of an icon, so it is convenient for the manager as well as ensuring visible.
- ❖ Receive sensor signal and manual start signal including basic function and alarm as well as fire indication.
- ❖ When fires occur, the functions effect on some non-voltage contacts of clock device (A, B contacts), gas release, manual start.
- ❖ The sensor input circuit is composed of an A, B replacement circuit, which prevents the release of gas due to an erroneous motion of a circuit, the function of preventing false operation (45 seconds).
- ❖ Manual start switch is constructed to provide double protection against false alarms or false discharges due to false start-up, when the start is stored in memory.

5. Product installation location

- ❖ Install electronic/electrical equipment in each supervisory communication department, generating room, electrical room, computer room for installation in necessary places. Non-conductive extinguishing media.
- ❖ Install in important places (avoiding the 2nd loss caused by fire extinguishing powder), such as museums, libraries, operating rooms.
- ❖ Installation of equipment, semiconductor equipment in the air or can be installed in places where it is necessary to cope with fires in the first place and uninhabited places.

57 SECONDARY LOOP CABINET

❖ PRODUCT DRAWINGS

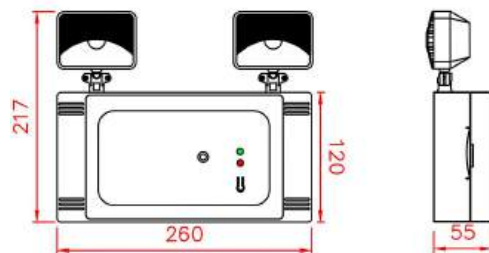


❖ SPECIFICATIONS

MODEL No	HIS1001
TYPE	GR (ADDRESS)
INSTALLATION	WALL MOUNTING TYPE
POWER SOURCE	AC 220V, 50/60Hz
AMBIENT CONDITION	-10 °C ~ 50 °C, 95% RH
SIZE	W350mm x H450mm x D115mm
STANDBY POWER	DC 24V 4Ah (DC12V 4Ah x 2EA)
MAXIMUM LOOP	MAX 4 LOOP (IN 4.000 CCT / OUT 4.000 CCT)
COLOR	CUSTOM MADE
APPLICATION	BUILDING SAFETY CENTER, NEAR PANEL BOARD, ...

58 EMERGENCY LIGHTING

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

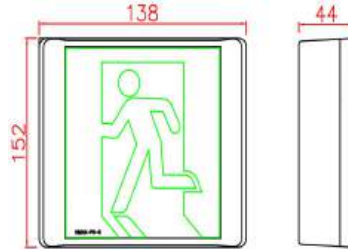
MODEL No	KOREA
TYPE	LED LIGHTS
POWER SOURCE	AC 220V, 50/60Hz
STANDBY POWER	400 mAh x 3.6V (Ni-Cd)
SIZE/WEIGHT	W260mm x H217mm x D55mm / 592g
STANDBY TIME	120 MINUTES
POWER CONSUMPTION	2W

59

EMERGENCY EXIT LIGHTING (SMALL)



PRODUCT DRAWINGS



SPECIFICATIONS

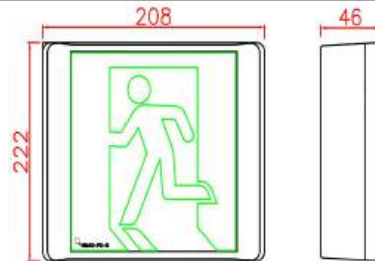
MODEL No	HL3111	HL3111-1
TYPE	SMALL (SIDE)	SMALL (BOTH SIDES)
POWER SOURCE	AC 220V / 2.2W	AC 220V / 2.2W
SIZE/WEIGHT	W138mm x H152mm x D44mm / 0.5Kg	W197mm x H174mm x D81mm / 1.1Kg
STANDBY POWER	4.8V, 600mAh Ni-Cd BATTERY	4.8V, 600mAh Ni-Cd BATTERY
STANDBY TIME	120 MINUTES	120 MINUTES
INSTALLATION HEIGHT	ON THE DOOR/CEILING	CEILING
APPLICATION	KITCHEN, BOILER ROOM, WELDING WORKSHOP, DRYING ROOM, SEWAGE DISPOSAL PLANT, PROJECTION ROOM, CONFERENCE ROOM, KARAOKE, BASEMENT, TERMINAL, WAREHOUSE, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM, COMPUTER ROOM, ...	

60

EMERGENCY EXIT LIGHTING (MEDIUM)



PRODUCT DRAWINGS



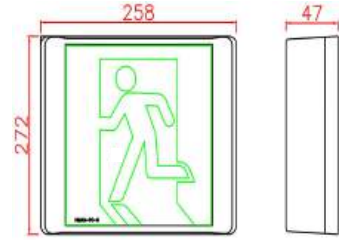
SPECIFICATIONS

MODEL No	HL3113	HL3113-1
TYPE	MEDIUM (SIDE)	MEDIUM (BOTH SIDES)
POWER SOURCE	AC 220V / 3.9W	AC 220V / 3.9W
SIZE/WEIGHT	W208mm x H222mm x D46mm / 1.25Kg	W266mm x H245mm x D80mm / 1.3Kg
STANDBY POWER	4.8V, 600mAh Ni-Cd BATTERY	4.8V, 600mAh Ni-Cd BATTERY
STANDBY TIME	120 MINUTES	120 MINUTES
INSTALLATION HEIGHT	ON THE DOOR/CEILING	CEILING
APPLICATION	KITCHEN, BOILER ROOM, WELDING WORKSHOP, DRYING ROOM, SEWAGE DISPOSAL PLANT, PROJECTION ROOM, CONFERENCE ROOM, KARAOKE, BASEMENT, TERMINAL, WAREHOUSE, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM / COMPUTER ROOM, ...	

61 EMERGENCY EXIT LIGHTING (LARGE)



❖ PRODUCT DRAWINGS



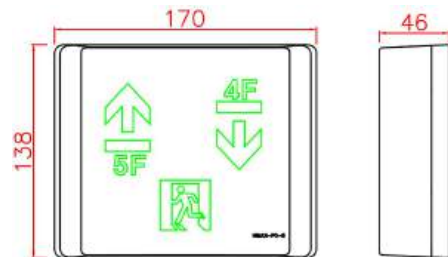
❖ SPECIFICATIONS

MODEL No	HL3119	HL3119-1
TYPE	LARGE (SIDE)	LARGE (BOTH SIDES)
POWER SOURCE	AC 220V / 6.6W	AC 220V / 6.6W
SIZE/WEIGHT	W258mm x H272mm x D47mm / 1.5Kg	W316mm x H295mm x D80mm / 1.5Kg
STANDBY POWER	4.8V, 600mAh Ni-Cd BATTERY	4.8V, 600mAh Ni-Cd BATTERY
STANDBY TIME	120 MINUTES	120 MINUTES
INSTALLATION HEIGHT	ON THE DOOR/CEILING	CEILING
APPLICATION	KITCHEN, BOILER ROOM, WELDING WORKSHOP, DRYING ROOM, SEWAGE DISPOSAL PLANT, PROJECTION ROOM, CONFERENCE ROOM, KARAOKE, BASEMENT, TERMINAL, WAREHOUSE, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM, COMPUTER ROOM, ...	

62 EMERGENCY EXIT LIGHTING (TYPE OF DIRECTION)



❖ PRODUCT DRAWINGS



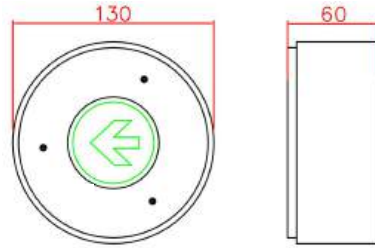
❖ SPECIFICATIONS

MODEL No	HL3117
TYPE	DIRECTIONS (SIDE, BOTH SIDES)
POWER SOURCE	AC 220V / 3.7W
SIZE/WEIGHT	W170mm x H138mm x D46mm / 430g
STAND-BY POWER	4.8V, 600mAh Ni-Cd BATTERY
STANDBY TIME	120 MINUTES
INSTALLATION HEIGHT	OVER 1m
APPLICATION	KITCHEN, BOILER ROOM, WELDING WORKSHOP, DRYING ROOM, SEWAGE DISPOSAL PLANT, PROJECTION ROOM, CONFERENCE ROOM, KARAOKE, BASEMENT, TERMINAL, WAREHOUSE, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM, COMPUTER ROOM, ...

**63 EMERGENCY EXIT LIGHTING
(TYPE OF DIRECTION)**



❖ PRODUCT DRAWINGS



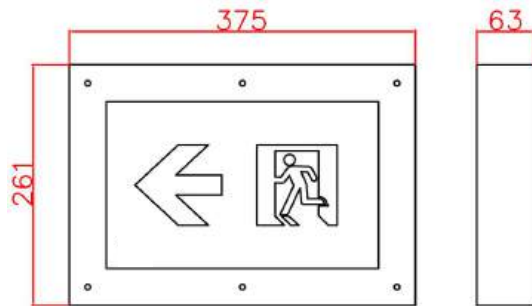
❖ SPECIFICATIONS

MODEL No	HL3022
TYPE	TYPE OF UNDERFLOOR DIRECTIONS (FLOOR FLUSH)
POWER SOURCE	AC 220V / 3.8W
SIZE/WEIGHT	Ø130mm x D60mm
LIGHTING	HIGHT BRIGHTNESS LED
STANDBY TIME	120 MINUTES
INSTALLATION HEIGHT	ON THE FLOOR (FLUSH)
APPLICATION	CONFERENCE ROOM, RESTAURANT, DEPARTMENT STORE, THEATER, MUSEUM, GALLERY,...

**64 EMERGENCY EXIT LIGHTING
(TYPE OF DIRECTION)**



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	HL3081
TYPE	TYPE OF UNDERFLOOR DIRECTIONS (FLOOR FLUSH)
POWER SOURCE	AC 220V / 3.8W
SIZE/WEIGHT	W375mm x H261mm x D63mm
STANDBY POWER	4.8V, 600mAh Ni-Cd BATTERY
STANDBY TIME	120 MINUTES
INSTALLATION HEIGHT	ON THE FLOOR (FLUSH)
APPLICATION	CONFERENCE ROOM, RESTAURANT, DEPARTMENT STORE, THEATER, MUSEUM, GALLERY, SUBWAY, ...

65

EMERGENCY EXIT LIGHTING (MEDIUM)



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	KT-610/KT-620
TYPE	MEDIUM (SIDE, BOTH SIDES)
POWER SOURCE	AC 220V, 50/60Hz
SIZE/WEIGHT	W397mm x H157mm x D30mm / 1.3Kg
STANDBY POWER	3.6V, 700mAh Ni-Cd BATTERY
STANDBY TIME	120 MINUTES
INSTALLATION HEIGHT	CEILING/ON THE FLOOR
APPLICATION	KITCHEN, BOILER ROOM, WELDING WORKSHOP, DRYING ROOM, SEWAGE DISPOSAL PLANT, PROJECTION ROOM, CONFERENCE ROOM, KARAOKE, BASEMENT, TERMINA, WAREHOUSE, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM, COMPUTER ROOM, ...

66

EMERGENCY EXIT LIGHTING (MEDIUM)



❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	KT-650/KT-660
TYPE	MEDIUM (SIDE, BOTH SIDES)
POWER SOURCE	AC 220V, 50/60Hz
SIZE/WEIGHT	W420mm x H187mm x D26mm / 1.3Kg
STANDBY POWER	3.6V, 700mAh Ni-Cd BATTERY
STANDBY TIME	120 MINUTES
INSTALLATION HEIGHT	CEILING/ON THE FLOOR
APPLICATION	KITCHEN, BOILER ROOM, WELDING WORKSHOP, DRYING ROOM, SEWAGE DISPOSAL PLANT, PROJECTION ROOM, CONFERENCE ROOM, KARAOKE, BASEMENT, TERMINAL, WAREHOUSE, RESTAURANT, DEPARTMENT STORE, HOTEL ROOM, COMPUTER ROOM, ...

67-68-69

SPRINKLER HEADS

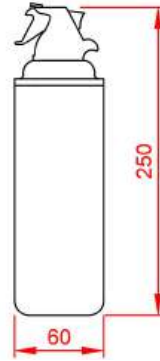
MODEL No	TYPE	OPERATING TEMPERATURE	GLASS BULB COLOR	PRESSURE	MATERIAL	PRODUCT
	UPRIGHT	68 °C, 93 °C	RED, GREEN	2,5MPa (25 kg/cm ²)	BRASS	
SPK	PENDENT	68 °C, 93 °C	RED, GREEN	2,5MPa (25 kg/cm ²)	BRASS	
	FLUSH TYPE	72 °C		2,5MPa (25 kg/cm ²)	BRASS	

❖ Explosion Proof Type

70

PORTABLE FIRE EXTINGUISHER

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	HF16-1
TYPE	PORTABLE FIRE EXTINGUISHER FOR CAR, OFFICE, HOUSE, SCHOOL,...
WEIGHT	400g
TYPE OF CHEMICAL	HCFC-123

71

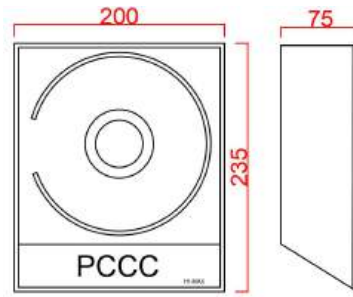
FIRE EXTINGUISHER

FIRE EXTINGUISHER CO ₂	FIRE EXTINGUISHER BC POWDER	FIRE EXTINGUISHER ABC POWER
SPECIFICATIONS	SPECIFICATIONS	SPECIFICATIONS
Type: CO ₂ Weight: 3Kg / 5Kg / 24Kg	Type: BC Powder Weight: 4Kg / 8Kg / 35Kg	Type: ABC Powder Weight: 4Kg / 8Kg / 35Kg
CẦU CHỮA CHÁY	SPECIFICATIONS	
	Type: Powder BC / Power ABC Weight :6Kg / 8Kg	

72 FIRE EXTINGUISHER BASE



❖ PRODUCT DRAWINGS



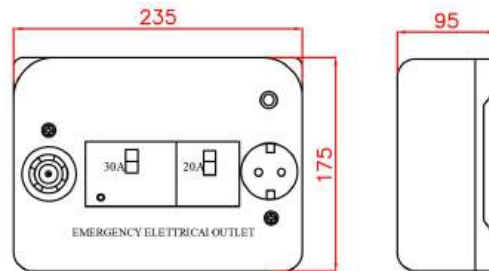
❖ SPECIFICATIONS

MODEL No	PCCC
ORIGIN	KOREA
SIZE	W200mm x H235mm x D75mm
WEIGHT	180g
CHARACTERISTIC	CAN BE USED FOR FIRE EXTINGUISHERS OF 5KG OR LESS

73 EMERGENCY POWER OUTLET



❖ PRODUCT DRAWINGS



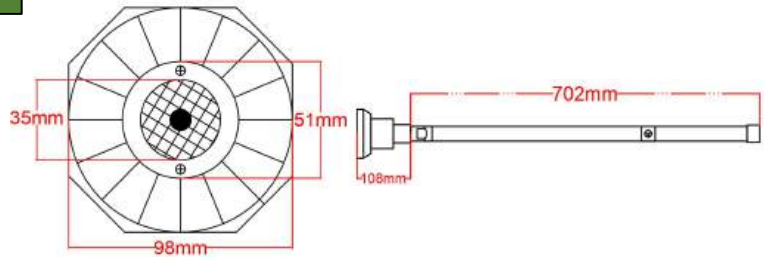
❖ SPECIFICATIONS

MODEL No	HM4013
POWER INDICATING LAMP	1 PHASE 220V, 3 PHASE 380V
AMBIENT CONDITION	-10°C ~ 50°C, 95% RH
SIZE / WEIGHT	W235mm x H175mm x D95mm / 1.6Kg
SWITCHES	3 PHASE - 3P 30AF / 30AT 1 PHASE - 2P 20AF / 20AT
SOCKETS	3 PHASE - 3P 460V / 30A
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM, CONFERENCE ROOM, KARAOKE, ...

❖ Equipment for testing and disassembling fire detectors

74 SMOKE AND HEAT DETECTOR TESTING DEVICE

❖ PRODUCT DRAWINGS

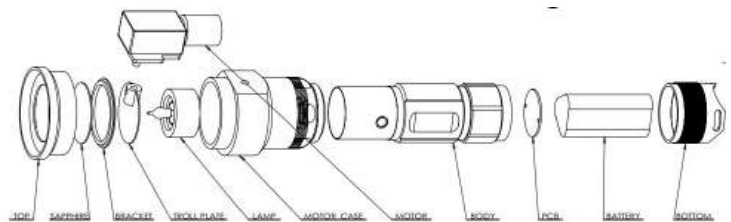


❖ SPECIFICATIONS

MODEL No	SL-HS-119CA
ORIGIN	KOREA
WEIGHT	1.5 Kg
BATTERIES	LITHIUM - ION
CHARGING INDICATOR LIGHT	RED LIGHT BATTERY CHARGING / GREEN LIGHT FULLY CHARGED
CHARGE TIME	2 – 3 HOURS
BATTERY OPERATION TIME	100 MINUTES
INCLUDE	SMOKE NOZZLE, ONE 0.9M MAIN HEAD, TWO 1.1M EXTENSIONS, CHARGER, SMOKE TANK

75 FIRE DETECTOR TESTING DEVICE

❖ PRODUCT DRAWINGS



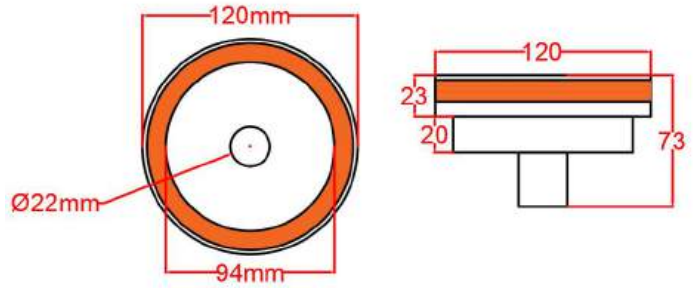
❖ SPECIFICATIONS

MODEL No	IRGQ2
ORIGIN	KOREA
OPERATIONAL DISTANCE	FROM 1m TO 3m
LAMP	HALOGEN
CHARGE TIME	3 HOURS
APPLICATION	CHECK THE OPERATION OF THE FIRE DETECTOR
ADVANTAGES	COMPACT, EASY TO USE

76

SMOKE AND HEAT DETECTOR INSTALLATION AND REMOVAL EQUIPMENT

❖ **PRODUCT DRAWINGS**

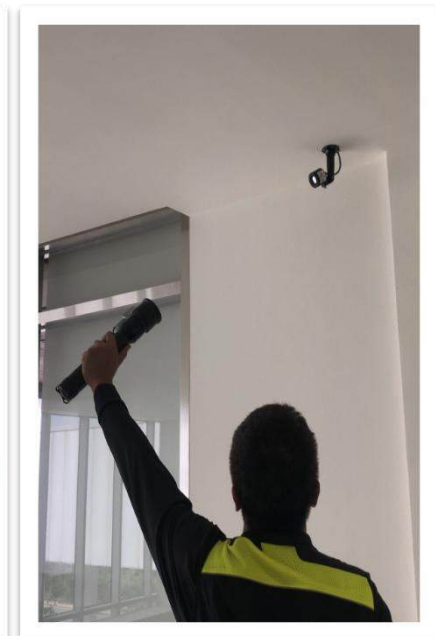
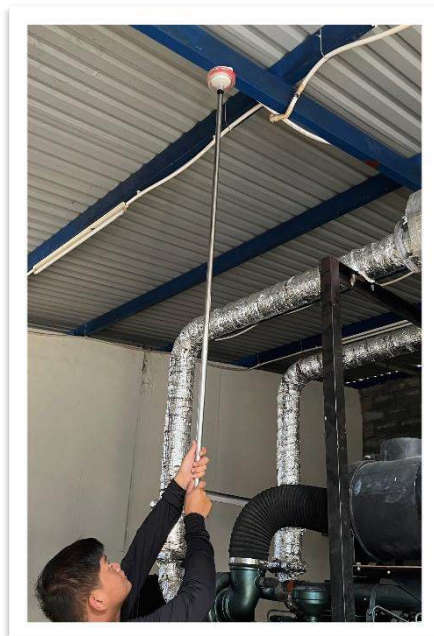


❖ **SPECIFICATIONS**

MODEL No	DS-AD119
ORIGIN	KOREA
LENGTH	1m, 5m, 7.5m
WEIGHT	200g
SIZE OF INSTALLATION HEAD	OUTSIDE DIAMETER: 120 mm INSIDE DIAMETER: 94 mm DEEP: 73 mm
ADVANTAGES	CAN CHOOSE SUITABLE FOR THE HEIGHT OF EACH DETECTOR, EASILY REMOVE AND INSTALL SMOKE AND HEAT DETECTORS OF DIFFERENT BRANDS



❖ *Product experimental images*



❖ SCHEMATIC DIAGRAM

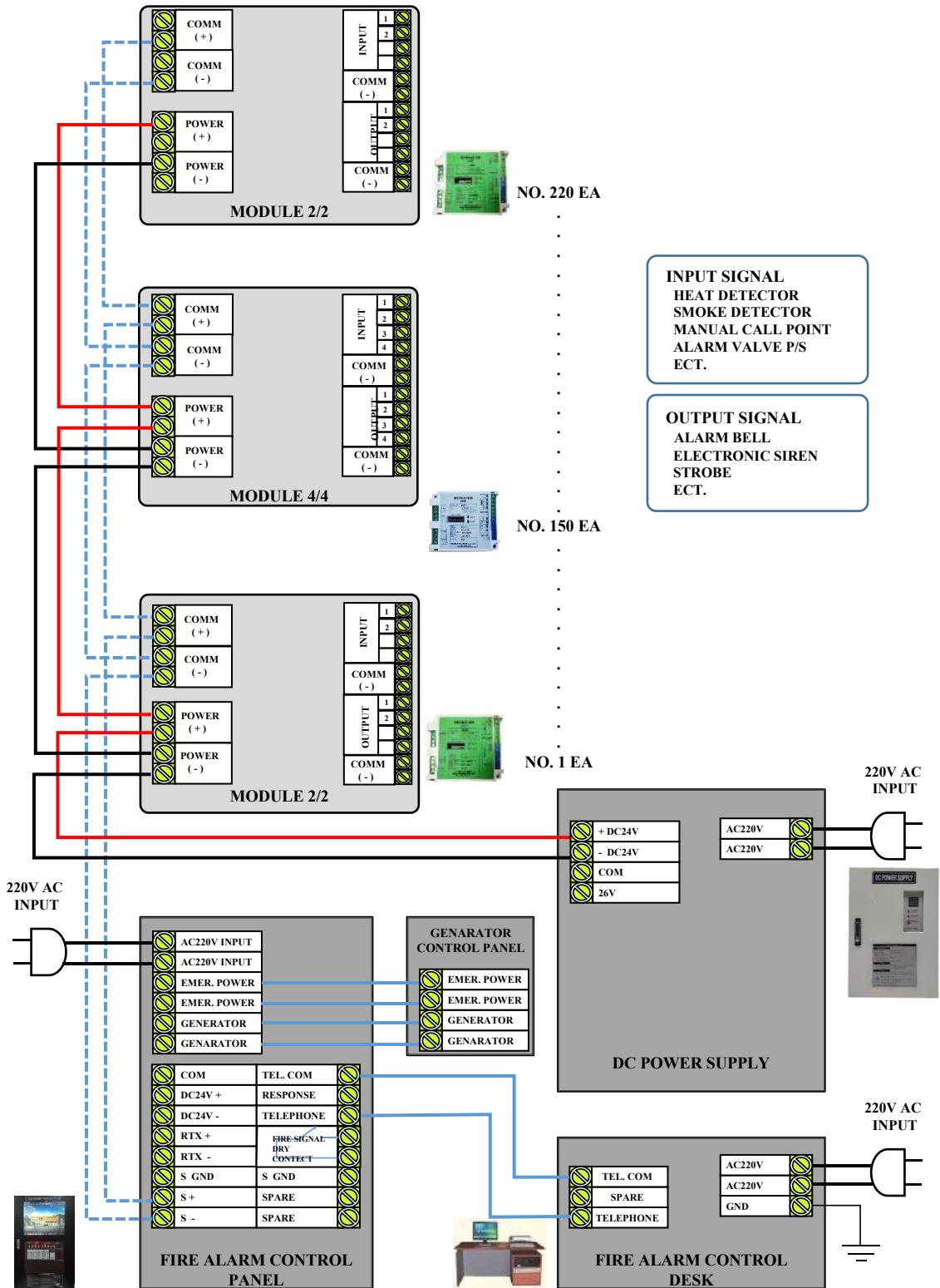
No	SCHEMATIC DIAGRAM	PAGE
1	R – TYPE - FIRE ALARM SYSTEM	57
2	R – TYPE - FIRE ALARM SYSTEM	58
3	R – TYPE - FIRE ALARM MANUAL CALL POINT	59
4	R – TYPE - FIRE ALARM MANUAL CALL POINT	60
5	R – TYPE - BELL, LAMP, RISE OF RATE HEAT DETECTOR	61
6	R – TYPE - NORMAL DETECTOR	62
7	R – TYPE - ANALOG DETECTOR	63
8	R – TYPE - BEAM DETECTOR	64
9	R – TYPE - FLAME DETECTOR	65
10	R – TYPE - STROBE, SIREN	66
11	R – TYPE - EXTINGUISHING GAS CONTROL PANEL	67
12	R – TYPE - EXTINGUISHING GAS SIGNAL REMOTE INDICATING CONNECTION	68
13	R – TYPE - PUMP, SPRINKLER	69
14	R – TYPE - SPRINKLER PREACTION VALVE (SVP) CONTROL	70
15	R – TYPE - PUMP, FAN, WATER TANK SYSTEM	71
16	R – TYPE - SMOKE WINDOW DETECTOR & FIRE SHUTTERS DETECTOR	72
17	R – TYPE - MODULE & ANALOG DTECTOR ADDRESS TABLE	73
18	EXPLANATION OF TERMINOLOGIES FIRE-RELATED	74
19	COMPARISON COMMUNICATION METHOD	74



❖ SCHEMATIC DIAGRAM

1 R – TYPE - FIRE ALARM SYSTEM

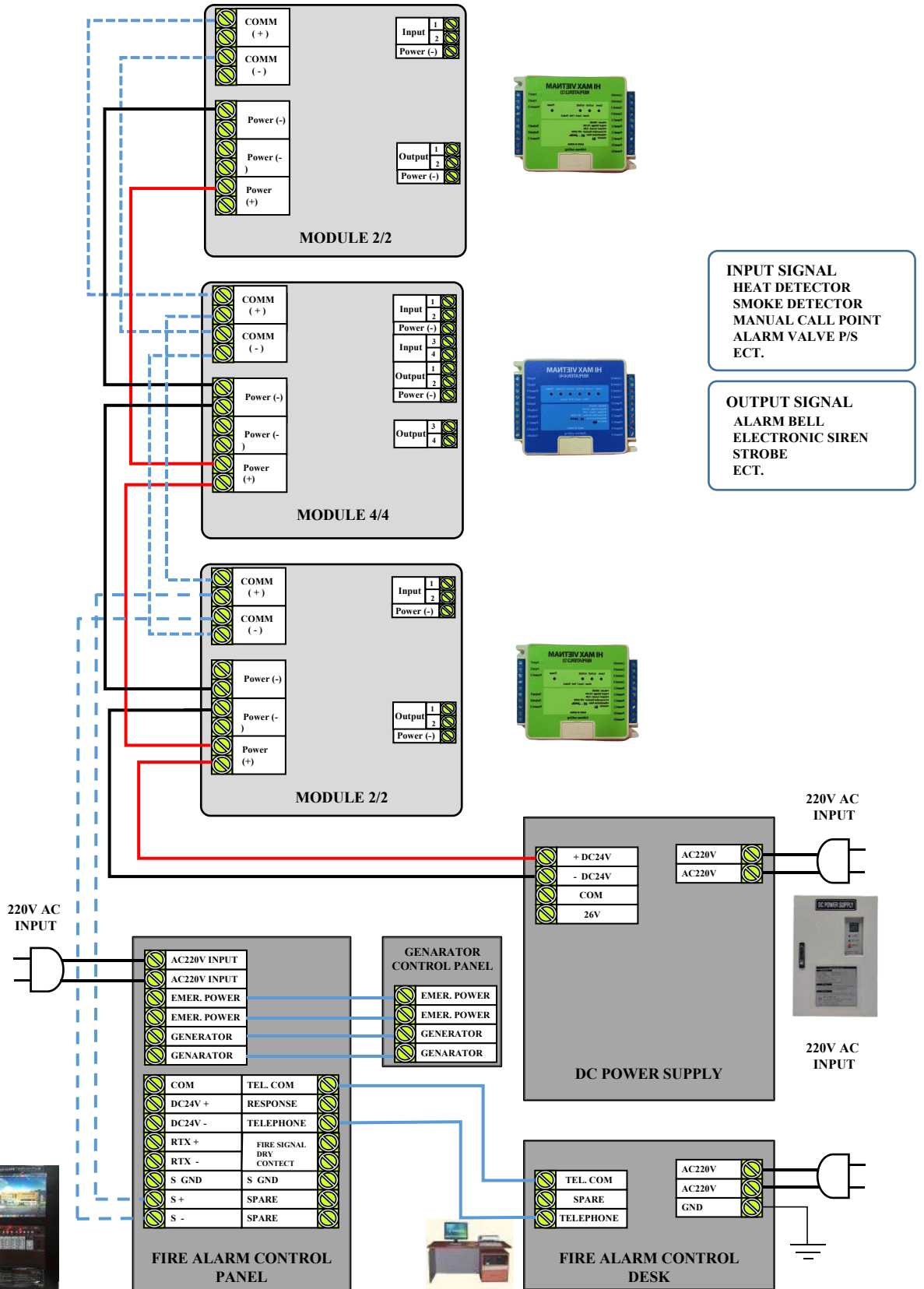
MODULE & FIRE CONTROL PANEL



❖ SCHEMATIC DIAGRAM

2 R – TYPE - FIRE ALARM SYSTEM

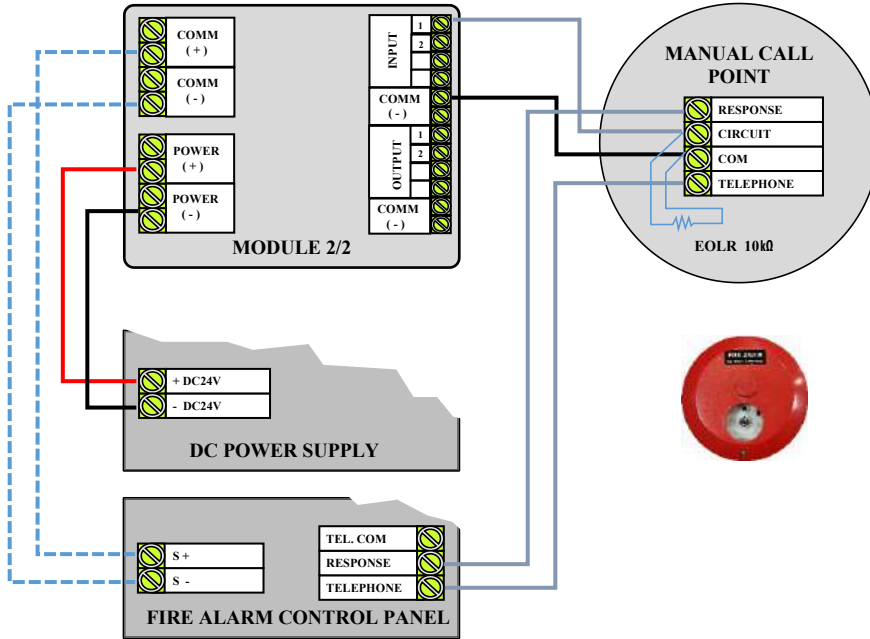
MODULE & FIRE CONTROL PANEL



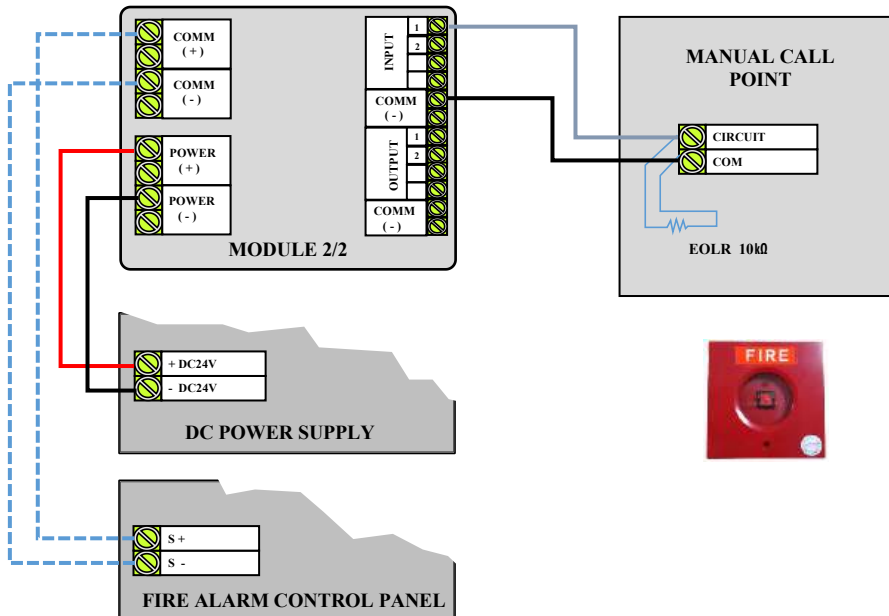
❖ SCHEMATIC DIAGRAM

3 R – TYPE - FIRE ALARM MANUAL CALL POINT

CIRCLE TYPE MANUAL CALL POINT



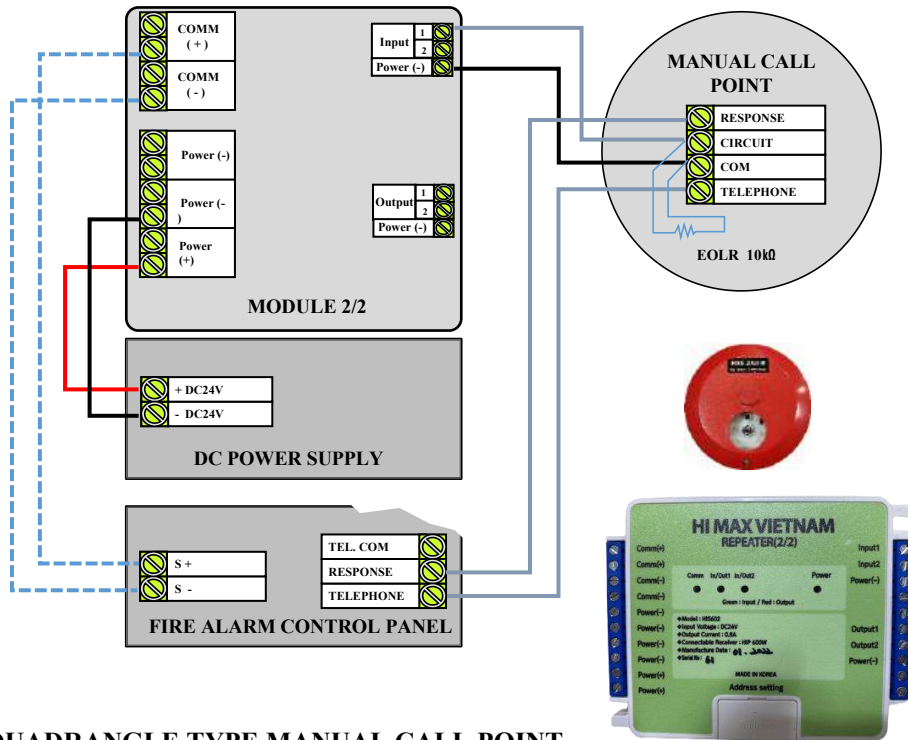
QUADRANGLE TYPE MANUAL CALL POINT



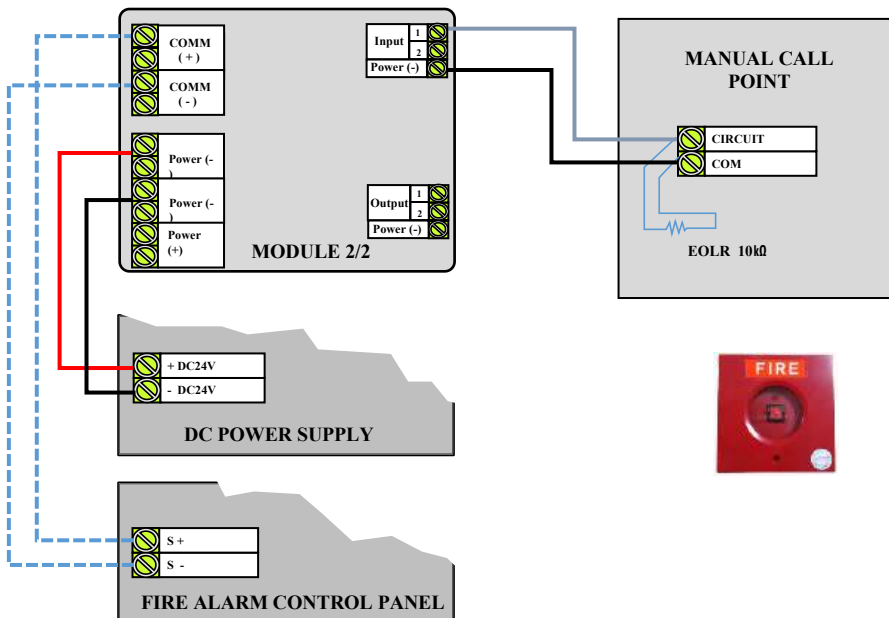
❖ SCHEMATIC DIAGRAM

4 R – TYPE - FIRE ALARM MANUAL CALL POINT

CIRCLE TYPE MANUAL CALL POINT



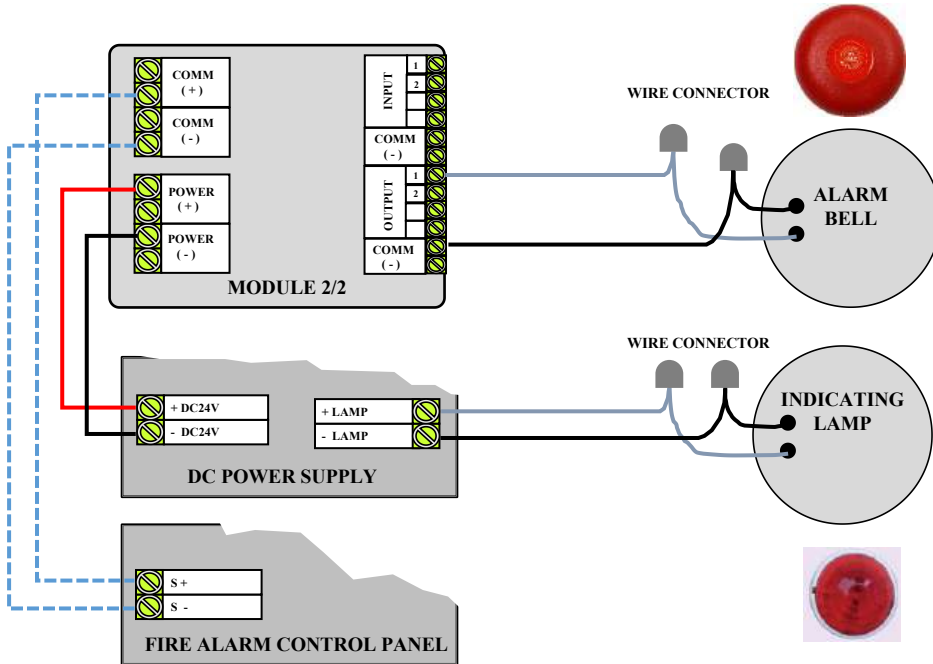
QUADRANGLE TYPE MANUAL CALL POINT



❖ SCHEMATIC DIAGRAM

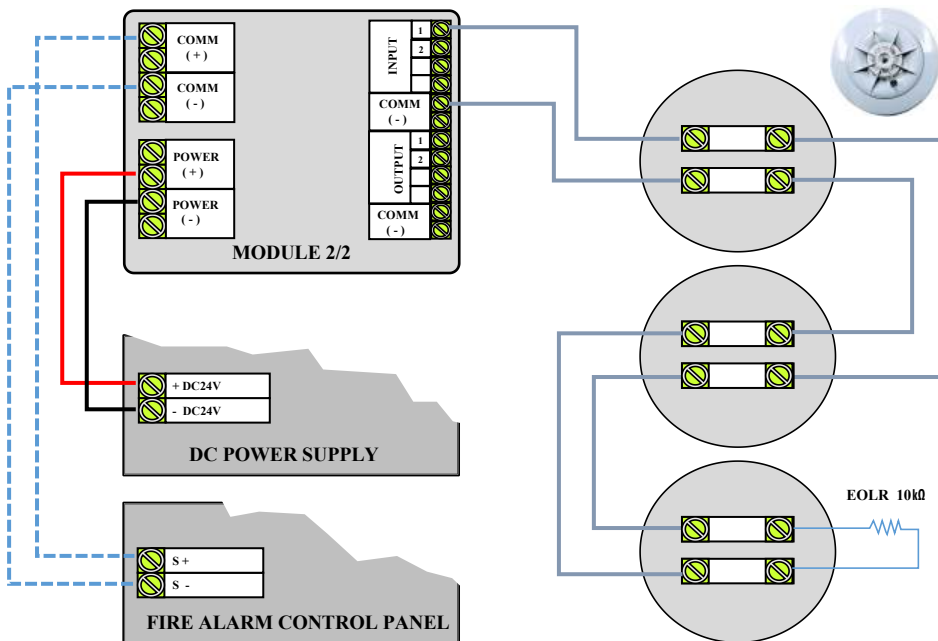
5 R – TYPE - BELL, LAMP, RISE OF RATE HEAT DETECTOR

ALARM BELL & INDICATING LAMP



RATE OF RISE HEAT DETECTOR

RATE OF RISE HEAT DETECTOR



❖ SCHEMATIC DIAGRAM

6 R – TYPE - NORMAL DETECTOR

FIXED TEMPERATURE HEAT DETECTOR

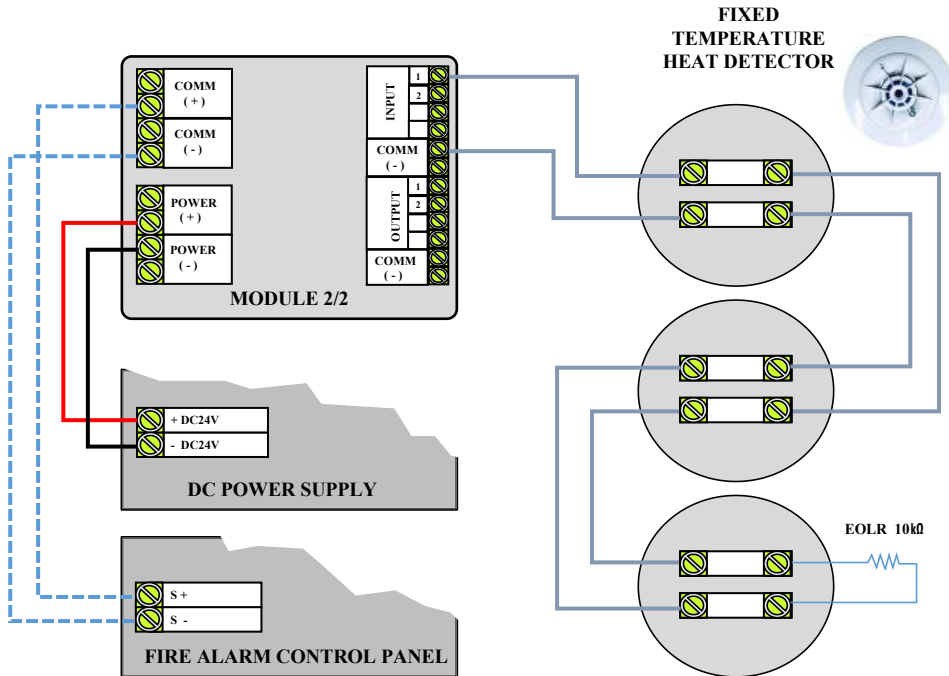
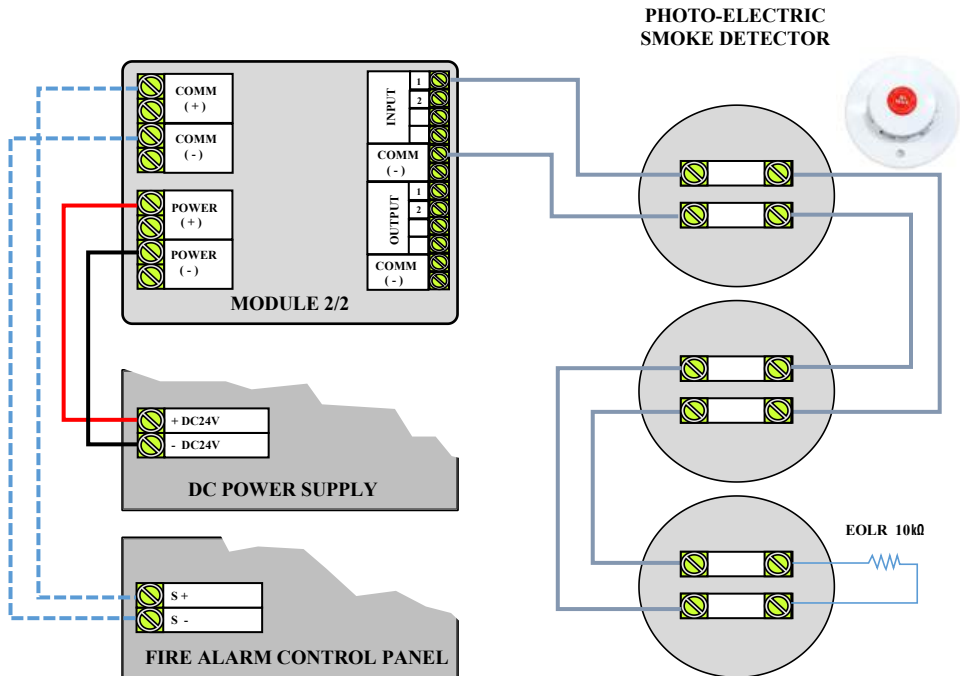


PHOTO-ELECTRIC SMOKE DETECTOR



❖ SCHEMATIC DIAGRAM

7 R – TYPE - ANALOG DETECTOR

ANALOG TYPE HEAT DETECTOR

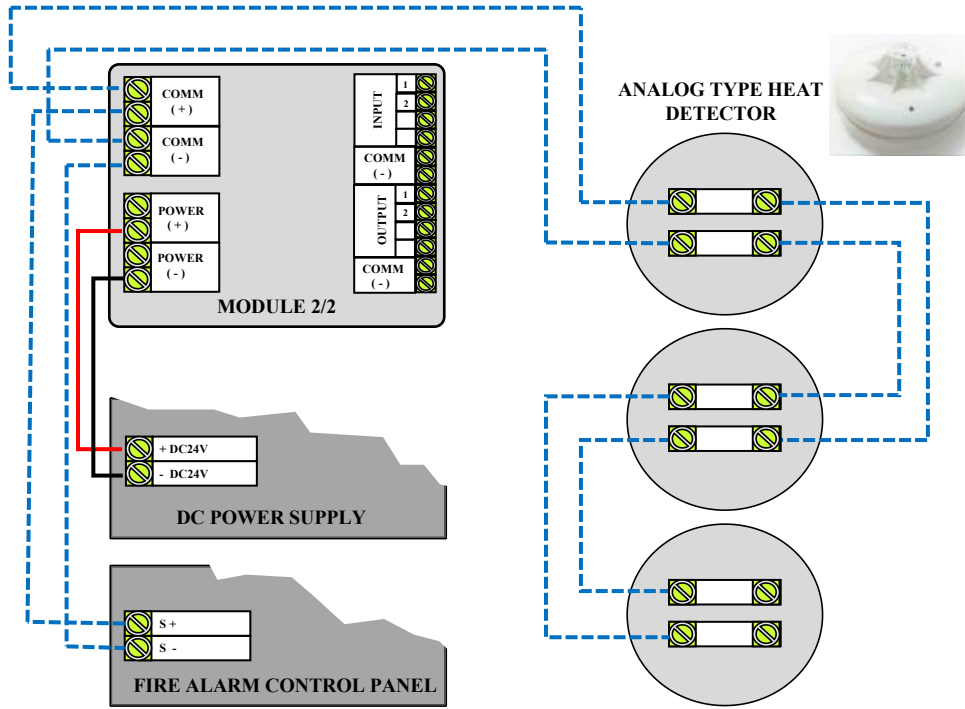
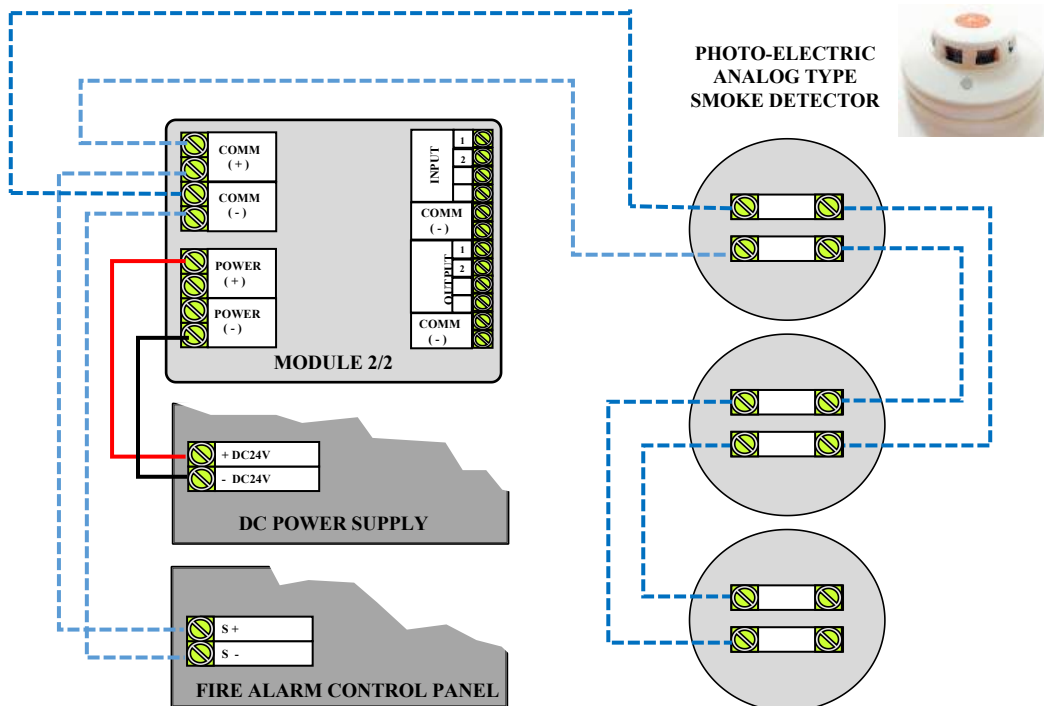
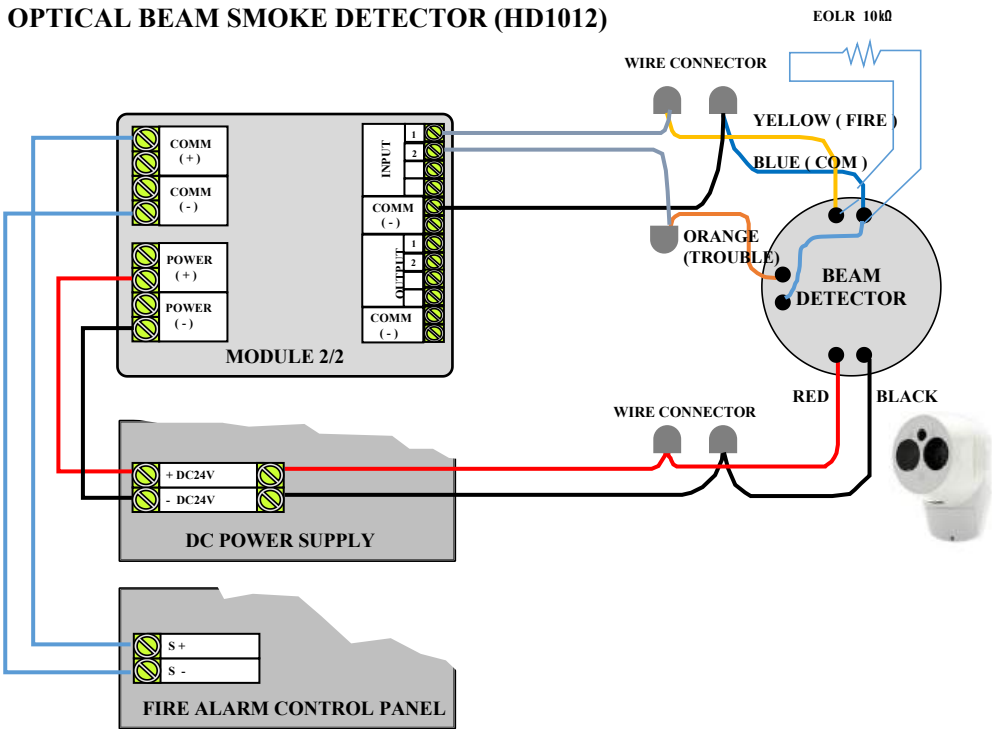


PHOTO-ELECTRIC ANALOG TYPE SMOKE DETECTOR

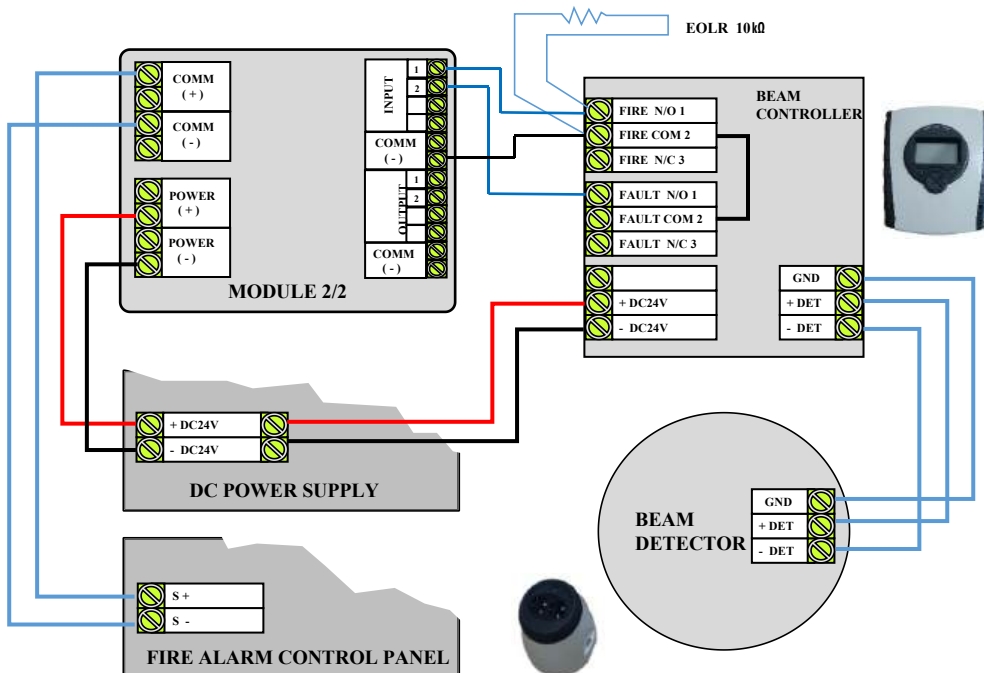


❖ SCHEMATIC DIAGRAM

8 R – TYPE - BEAM DETECTOR



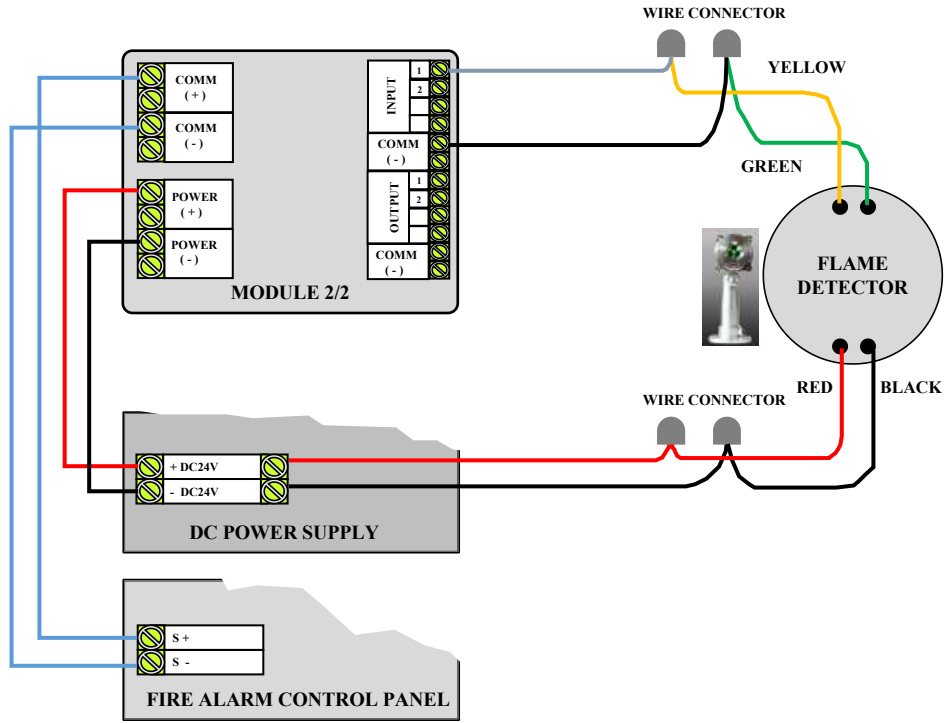
ANALOG TYPE OPTICAL BEAM SMOKE DETECTOR (HD1016)



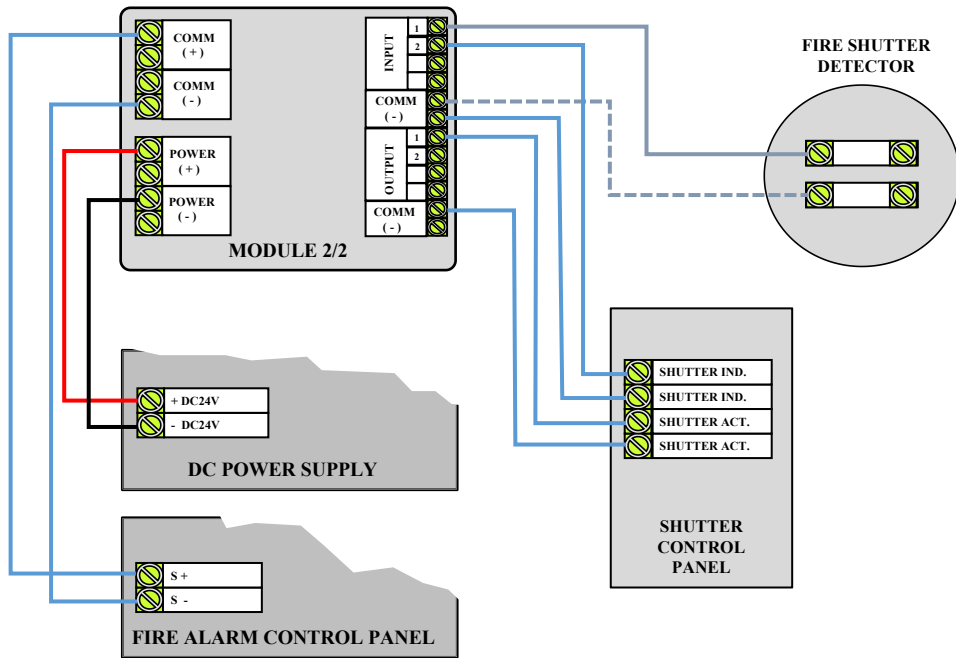
❖ SCHEMATIC DIAGRAM

9 R – TYPE - FLAME DETECTOR

FLAME DETECTOR



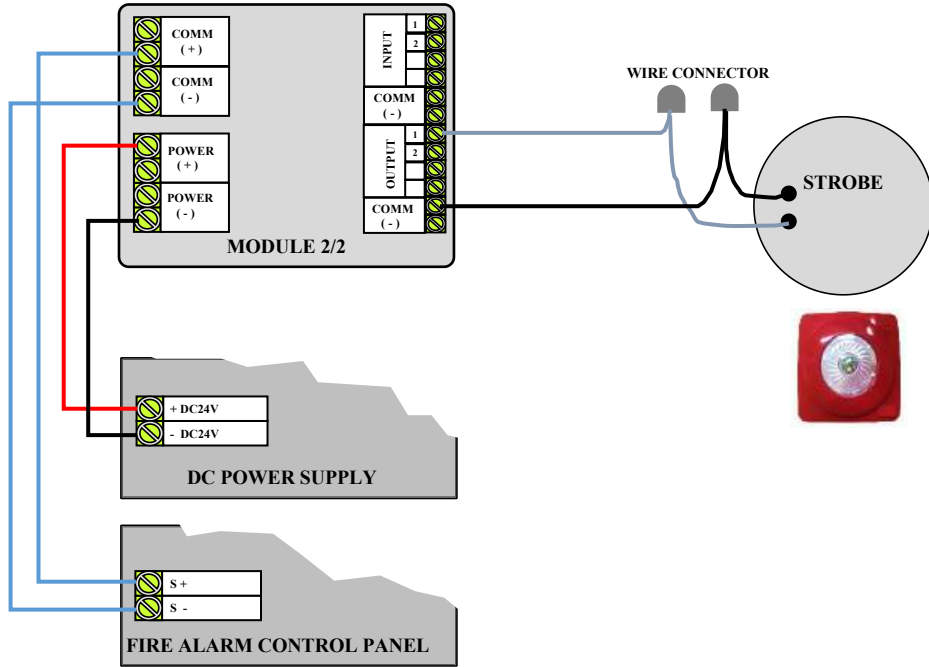
FIRE SHUTTER (The wiring also changes depending on the shutter manufacturer.)



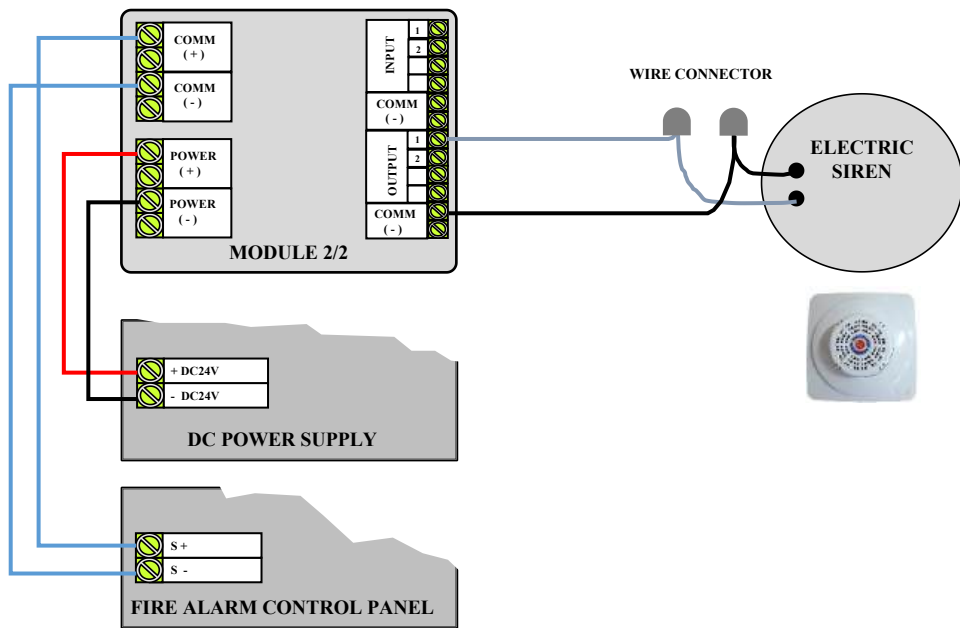
❖ SCHEMATIC DIAGRAM

10 R – TYPE - STROBE, SIREN

STROBE



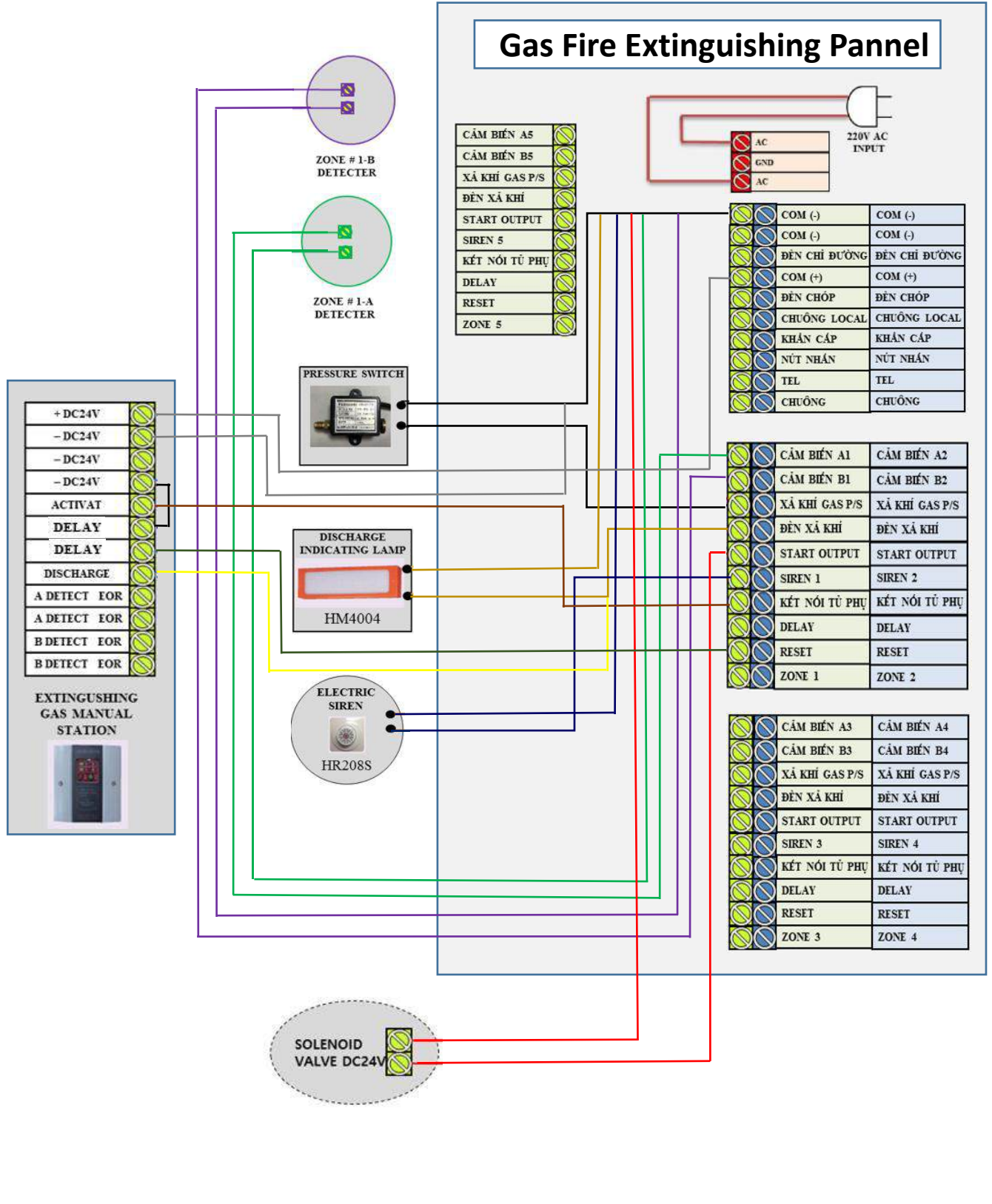
ELECTRIC SIREN



❖ SCHEMATIC DIAGRAM

11 R – TYPE - EXTINGUISHING GAS CONTROL PANEL

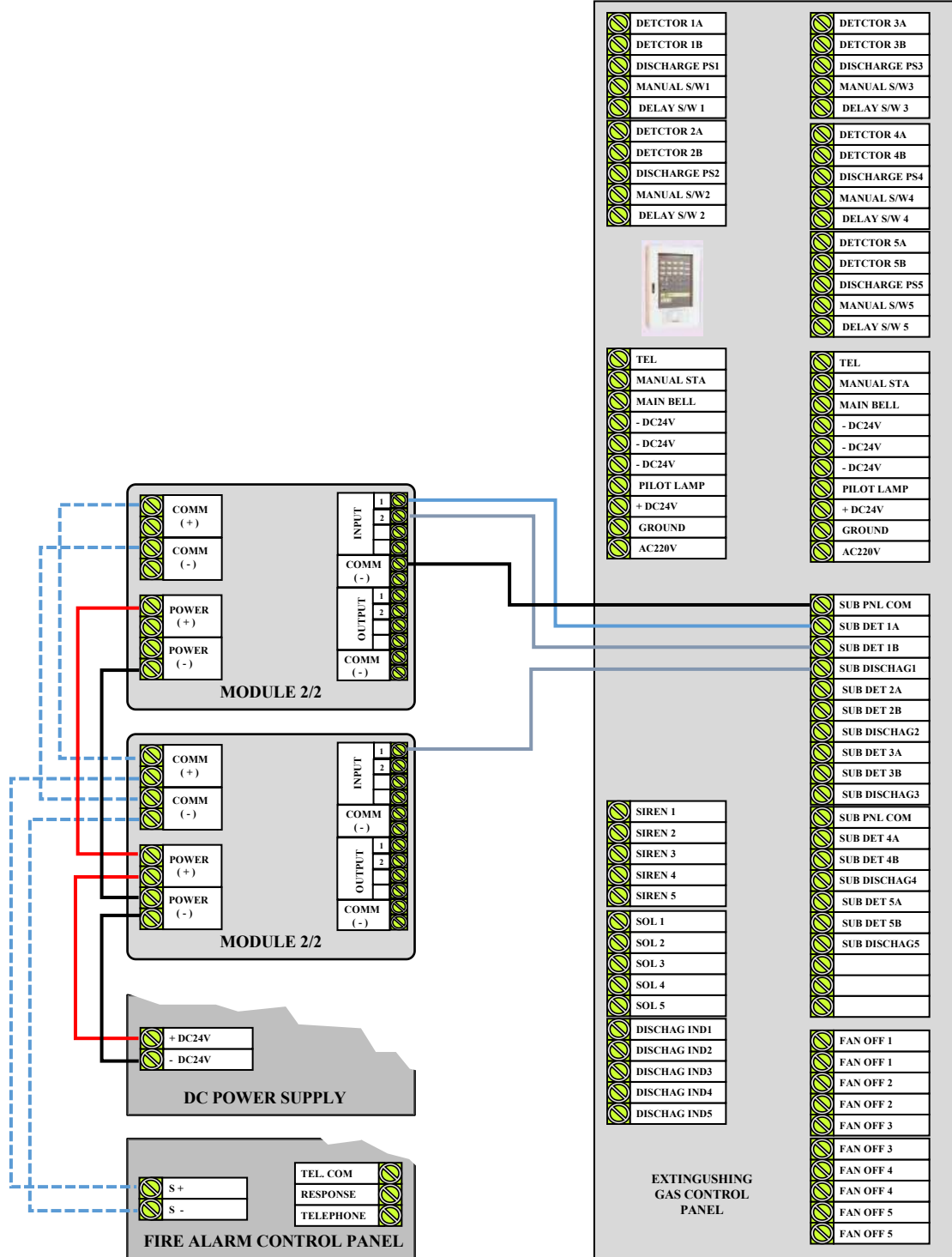
EXTINGUISHING GAS CONTROL PANEL
 (The wiring is also changed according to the customized fire panel.)



❖ SCHEMATIC DIAGRAM

12 R – TYPE - EXTINGUISHING GAS SIGNAL REMOTE INDICATING CONNECTION

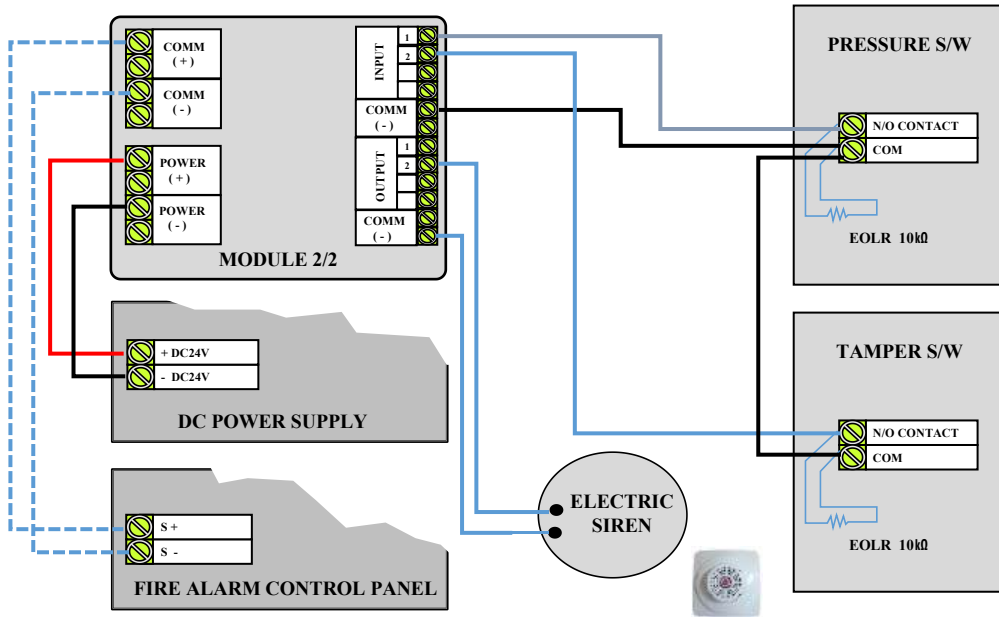
EXTINGUISHING GAS SIGNAL REMOTE INDICATING CONNECTION
 (The wiring is also changed according to the customized fire panel.)



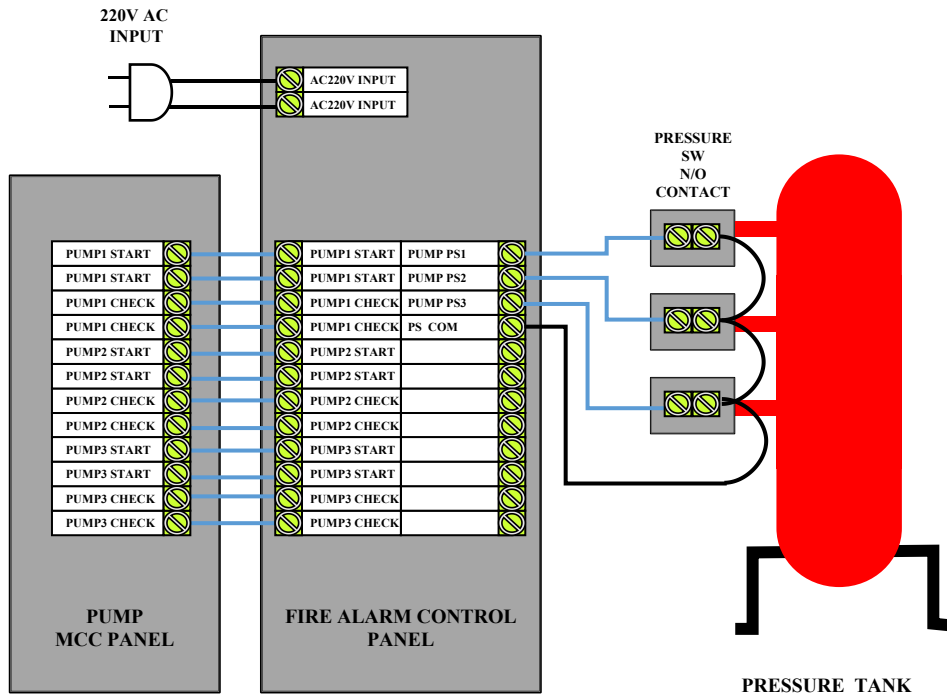
❖ SCHEMATIC DIAGRAM

13 R – TYPE - PUMP, SPRINKLER

SPRINKLER ALARM VALVE



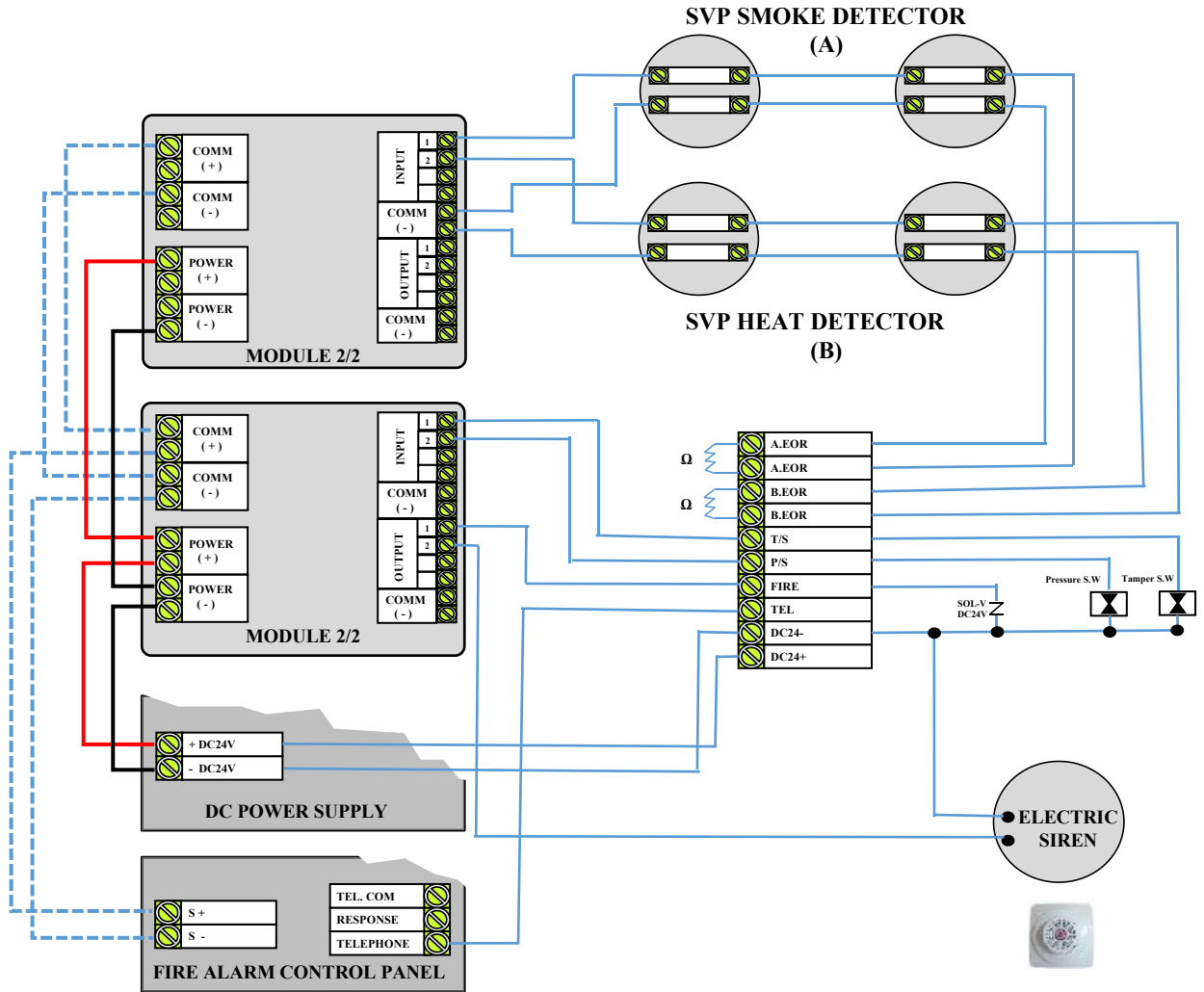
PUMP MCC & PRESSURE TANK



❖ SCHEMATIC DIAGRAM

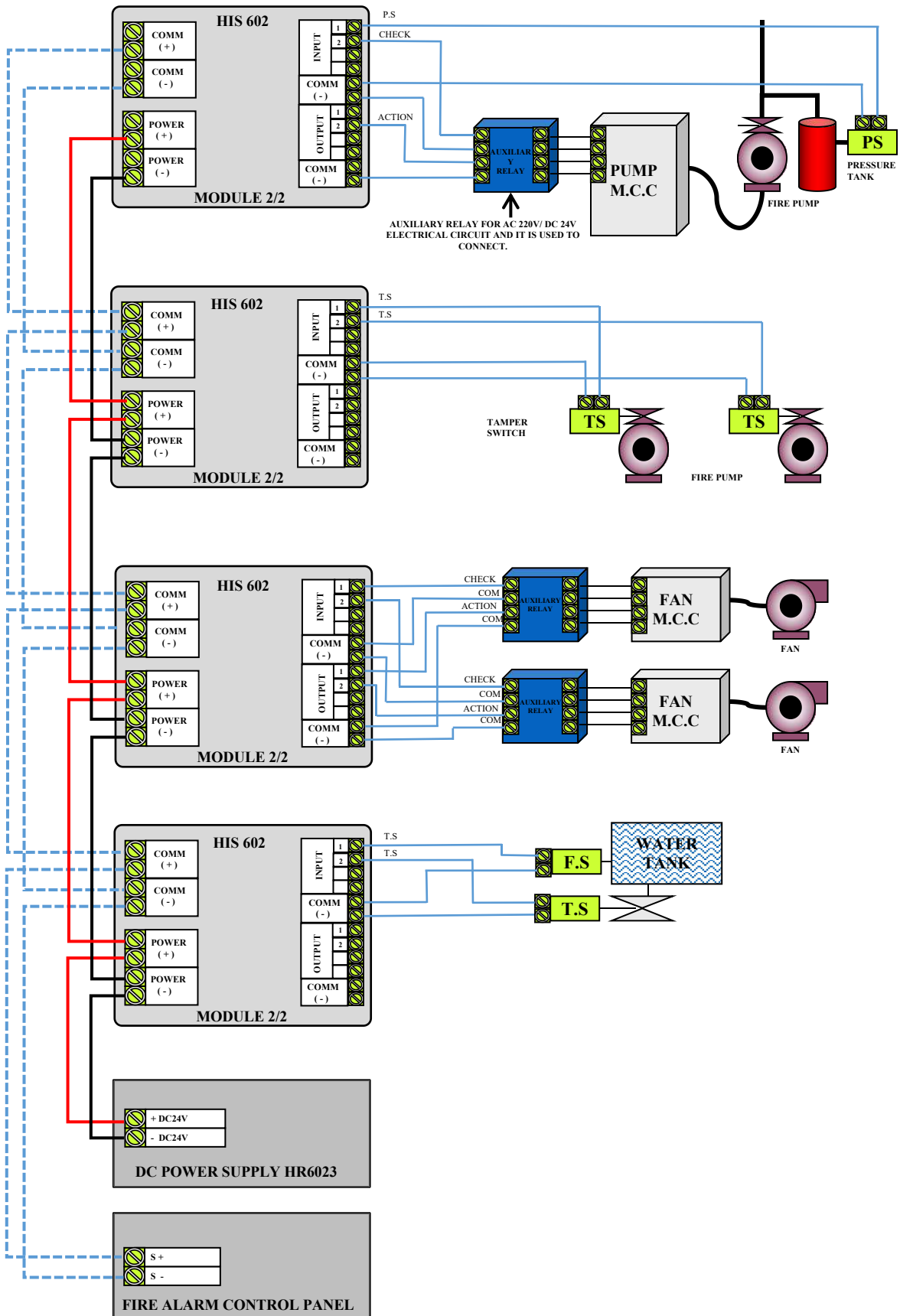
14 R – TYPE - SPRINKLER PREACTION VALVE (SVP) CONTROL

SPRINKLER PREACTION VALVE (SVP) CONTROL.
 (The wiring is also changed according to the customized fire panel.)



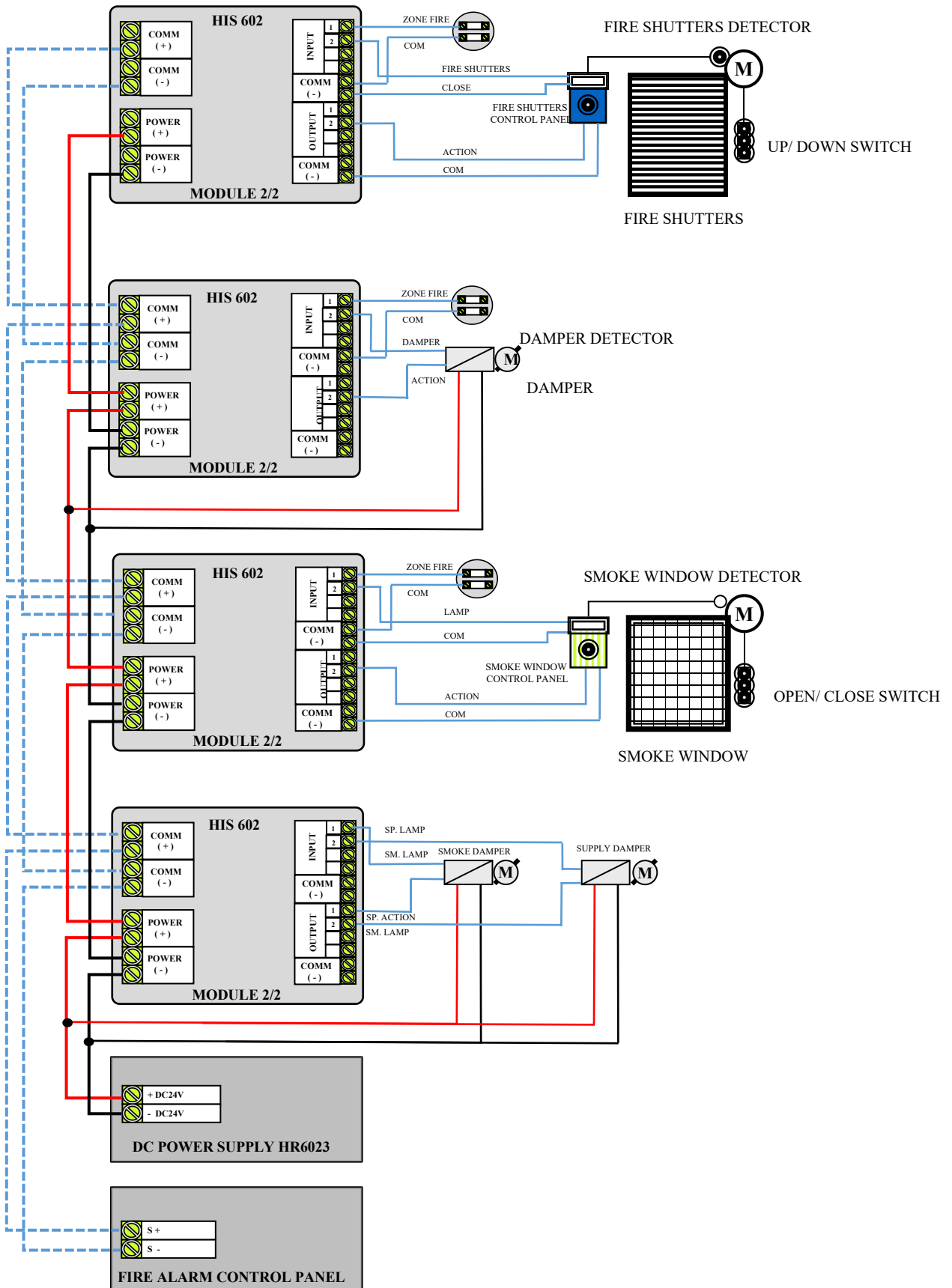
❖ SCHEMATIC DIAGRAM

15 R – TYPE - PUMP, FAN, WATER TANK SYSTEM



❖ SCHEMATIC DIAGRAM

16 R – TYPE - SMOKE WINDOW DETECTOR & FIRE SHUTTERS DETECTOR



❖ SCHEMATIC DIAGRAM

18 EXPLANATION OF TERMINOLOGIES FIRE-RELATED

TERM	EXPLANATION
Conventional Fire Alarm System	Is the automatic fire alarm system with fire alarm function to an area, a place (there may be one or more fire detectors).
Addressable Fire Alarm System	Is an automatic fire alarm system capable of accurately detecting to each location of each separate detector (each specific address).
Fire Alarm Control Panel	A device that provides power, receives and processes signals according to the set functions.
Detector	An automatic device sensitive to the phenomena associated with fire (temperature rise, smoke and light emitting), capable of generating appropriate signals and transmitting signals to the fire alarm center.
Fire Alarm Manual Call Point	A device to help people proactively operate a manual fire alarm when a person directly detects a fire when automatic fire alarm devices have not worked yet or in an area where there is no detector.
Addressable Fire Alarm Control Panel	In addition to the usual functions, the address fire alarm panel also supports information display on the screen, connects to the network, checks system parameters, activates or quarantines addresses when necessary, connect to computers to monitor the system, connect many peripherals.
Addressable Detector	In addition to normal functions, the addressable detector allows changing the working threshold at the request of the designer or installer.
Module	As a device to create addresses for conventional detectors or push buttons when the above devices want to connect to the fire alarm control panel.
Loop	Signal wire in the addressable fire alarm system is run from the first detector to the last detector and runs to the center to form a signal circuit (loop).
Addressable	Because all the main equipment of the system is connected to the main signal line, to distinguish between different devices, each main device must have a unique identifier on the entire fire alarm system. address. This identifier is called the address of the device.
Signal control peripheral device	Peripheral device is an external device of the automatic fire alarm system, controlled by fire alarm control panel. For example, elevator system, fire screen, pressure fan system for lift chamber, automatic fire fighting system.

17 COMPARISON COMMUNICATION METHOD

SPECIFICATION	RS232C	RS422	RS485
Operation Model	Single-ended	Differential	Differential
Maximum Number Of Driver/ Receiver	1 Driver	1 Driver	32 Driver
	1 Receiver	32 Receivers	32 Receivers
Maximum Coverage	About 15m	About 1.2km	About 1.2km
Maximum Communication Speed	20Kb/s	10Mb/s	10Mb/s
Support Transmission System	Full Duplex	Full Duplex	Half Duplex
Number Of Communication Lines	9	4	2
Features	Low-speed communication System A signal transmission distance is Short. Used to communicate between devices inside the emergency room	High speed communication System. Long distance signal transmission TX and RX lines are separated	High-communication system Long distance signal transmission RX and TX lines to public use

❖ CONTROL PANELS



❖ SECUTECH EXHIBITION



❖ INSTALLATION, MAINTENANCE OF FIRE PROTECTION SYSTEM



❖ FIRE PROTECTION EQUIPMENT QUALITY CHECKER



PHOTO ELECTRIC SMOKE DETECTOR TEST MACHINE



FIXED HEAT DETECTOR TEST MACHINE



INCREASED HEAT DETECTOR TEST MACHINE



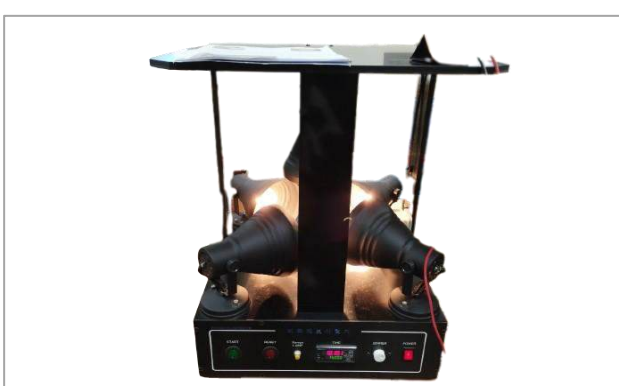
BELL FIRE ALARM TEST MACHINE



PUSH BUTTON TESTER



MACHINE TO TEST THE RELIABILITY OF THE FIRE ALARM BUTTON



ILLUMINATION TEST MACHINE



VIBRATION TESTING MACHINE

❖ FIRE PROTECTION EQUIPMENT QUALITY CHECKER



INJECTOR LEAK PRESSURE TEST MACHINE



INJECTOR HEAD FORCE TESTING MACHINE



MACHINE TO CHECK SPRAY HEAD OPERATION



IMPACT FORCE TESTING MACHINE



HIGH TEMPERATURE ELECTRIC FURNACE



CHECKER FOR ENVIRONMENTAL CORROSION OF EQUIPMENT



ELECTRONIC FIRE ALARM TESTING EQUIPMENT



ELECTRONIC FIRE ALARM TESTING EQUIPMENT

❖ HI-MAX VIETNAM



SUMMARY OF FIRE PROTECTION SYSTEM

THIS CONTENT WILL HELP THE INVESTOR KNOW MORE ABOUT THE FIRE PREVENTION SYSTEM



CONTROL PANEL



BUTTON



BELL



DETECTOR



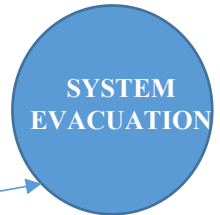
EXIT LIGHT



LIGHTS



DIRECTION BOARD



TOXIC SMOKE MASKS



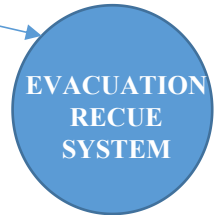
SOFT FIRE-PROOF BLANKET



MULTI-FUNCTIONAL DEMOLITION TOOLS FOR FIRE PROTECTION



ESCAPE STAIRS



AUTOMATIC FIRE GAS SYSTEM



FIRE PUMP



SPRINKLER



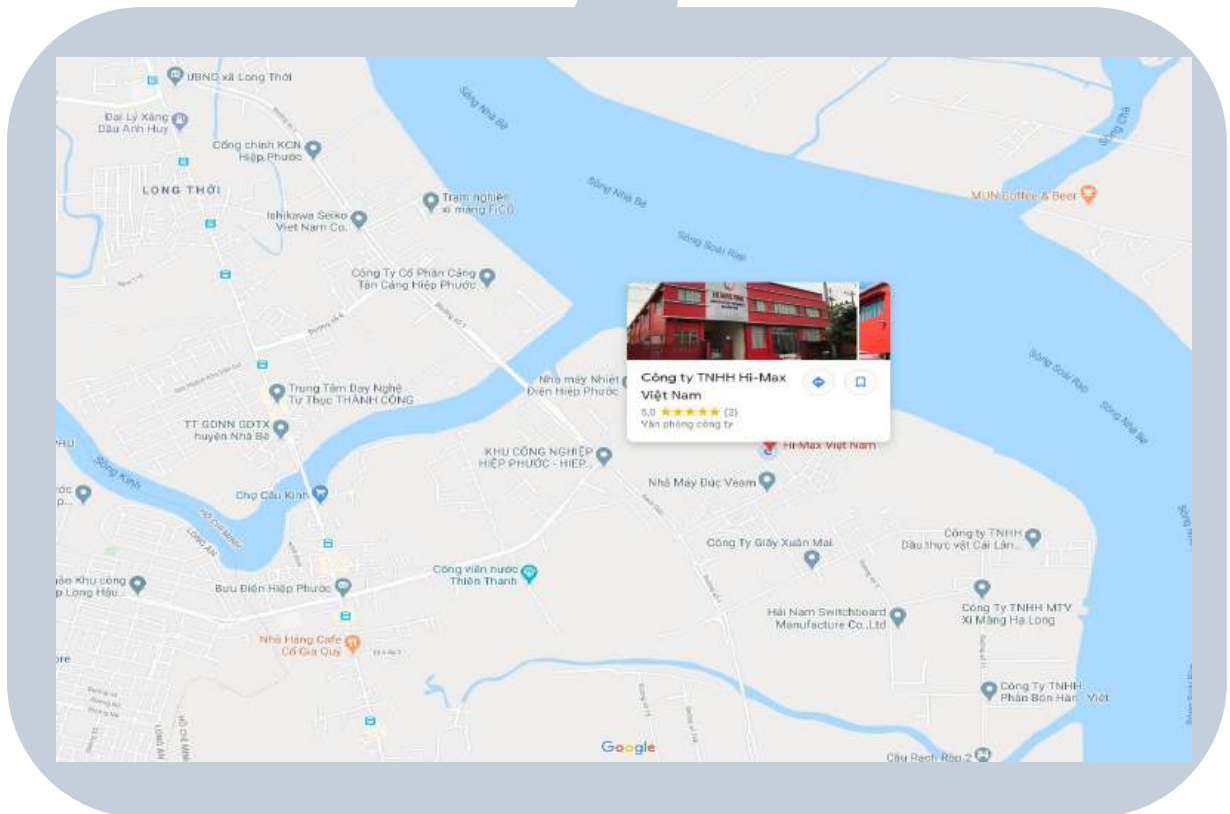
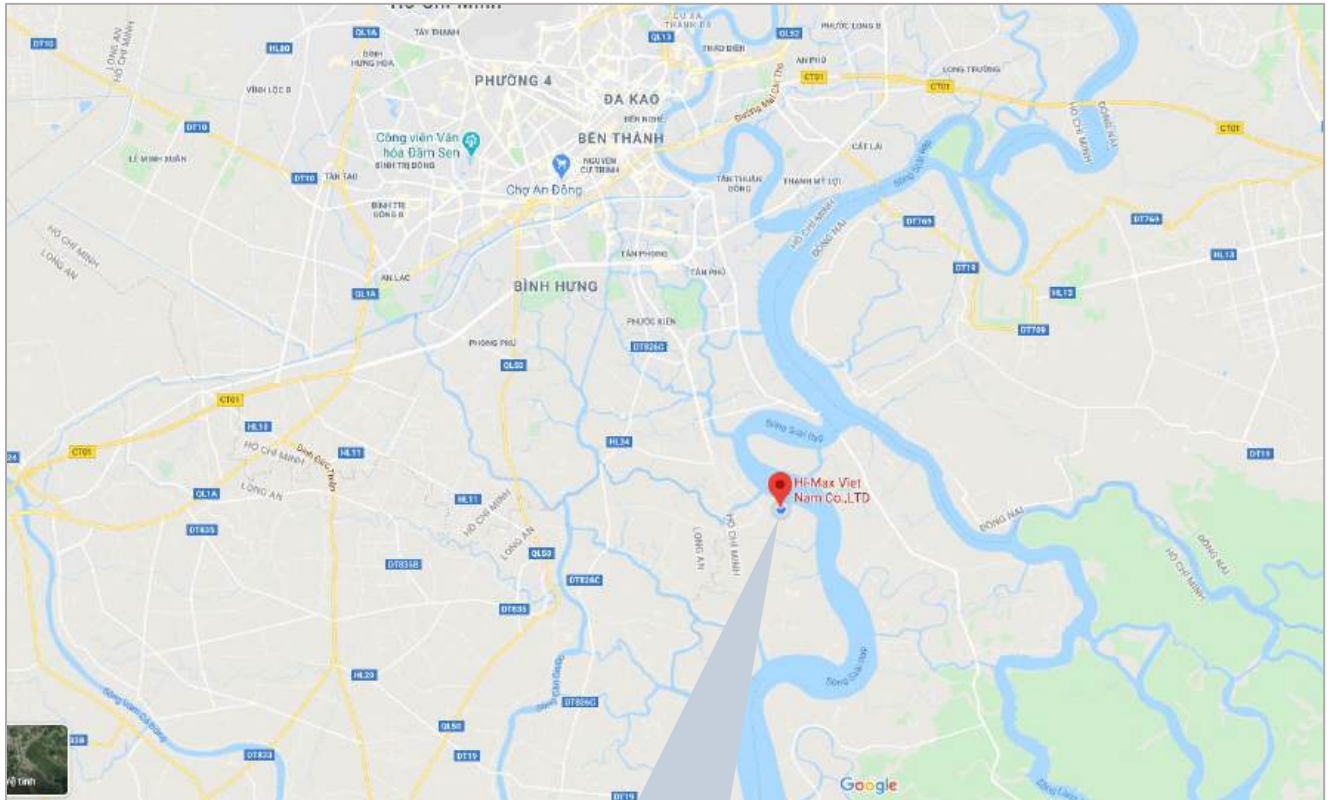
FIRE EXTINGUISHER



FIRE CABINETS

MAP

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