HI-MAX VIET NAM

FIRE ALARM AND FIRE EXTINGUISHING SYSTEM























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 wire 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.





Service

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.

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.

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, ...

Service

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



☐ 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 Coralis 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 syste	
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 material 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 nany 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)



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24	DAMPER MANUAL BUTTON	HM4003	DC 24V	21	
25	EXTINGUISHING GAS MANUAL BUTTON	HM4002	DC 24V	21	
himaxv	vietnam@gmail.com				3



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hima	axvietnam@gmail.com				4







PRODUCT LIST

			A CHOICE		
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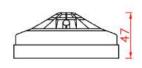
1

RATE OF RISE HEAT DETECTOR



❖ PRODUCT DRAWINGS





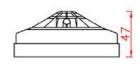
❖ SPECIFICATIONS

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,	

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,

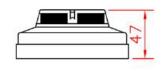
3

PHOTO-ELECTRIC SMOKE DETECTOR



PRODUCT DRAWINGS





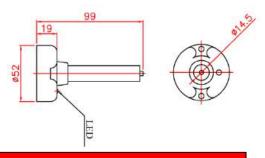
SPECIFICATIONS

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

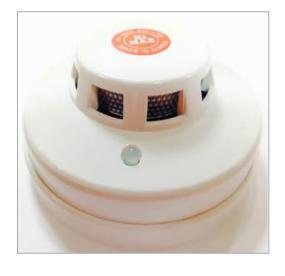


SPECIFICATIONS

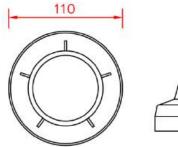
MODEL No	HD70S
POWER SOURCE	DC 24V
AMBIENT CONDITION	-10°C TO 50°C
SIZE/WEIGHT	W52mm x H99mm, Ø14.5mm
OPERATING TEMPEATURE	70°C/90°C/120°C
OPERATING INDICATOR	LED-RED COLOR
RANGE OF DETECT	UNDER 4m: 60 m ² OVER 4m - UNDER 8m: 35m ²
APPLICATION	AREAS WITH HIGH HUMIDITY

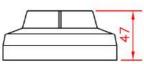
5

PHOTO-ELECTRIC ANALOG TYPE SMOKE DETECTOR



PRODUCT DRAWINGS





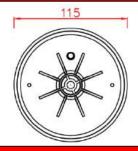
SPECIFICATIONS

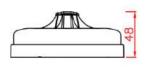
MODEL No	HD1015
POWER SOURCE	DC 24V / 3mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	Ø110mm x H47mm / 133g
ТҮРЕ	ADDRESS
OPERATING INDICATOR	LED-RED COLOR
USAGE STANDARD	250EA / LOOP
FIRE DETECTION DENSITY	3% ~ 18%
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT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

ANALOG TYPE HEAT DETECTOR



❖ PRODUCT DRAWINGS





SPECIFICATIONS

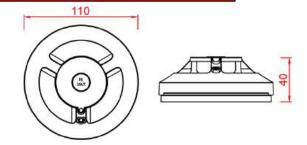
MODEL No	HD1014
POWER SOURCE	DC 24V / 3mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE/WEIGHT	Ø115mm x H48mm / 100g
ТҮРЕ	ADDRESS
OPERATING INDICATOR	LED-RED COLOR
USAGE STANDARD	250EA / LOOP
FIRE DETECTION TEMPERATURE	30°C ~ 90°C
APPLICATION	BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT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

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PHOTO-ELECTRIC ANALOG TYPE SMOKE DETECTOR



❖ PRODUCT DRAWINGS



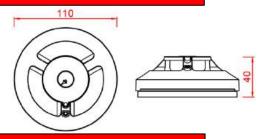
❖ SPECIFICATIONS

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

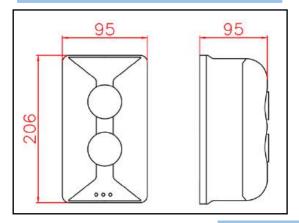
MODEL No	HD1014
POWER SOURCE	DC 24V / 3mA
AMBIENT CONDITION	-10°C TO 50°C, 90% RH
SIZE/WEIGHT	Ø110mm x D40mm / 90g
ТҮРЕ	ADDRESS
OPERATING INDICATOR	LED-RED COLOR
USAGE STANDARD	150EA / LOOP
FIRE DETECTION TEMPERATURE	40°C ~ 80°C (FIRE DETECTION TEMPERATURE CAN BE SET)
APPLICATION	OFFICE, BASEMENT, TERMINAL,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

9

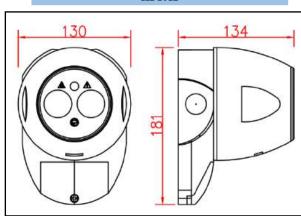
BEAM SMOKE DETECTOR

MODEL No	I9105R	HD1012	HD1016
PRODUCT		UL) C € VdS	•
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 OPPROVAL	FM/EN54:12/UL268/VdS/BOSEC		
INSTALLATION DISTANCE	1M FROM THE WALL		
APPLICATION	MUSEUM, SPORT ROOM, WORKSHOP ROOM, AIRPORT, EXHIBITION ROOM, BASEBALL, FACTORY, WAREHOUSE,		

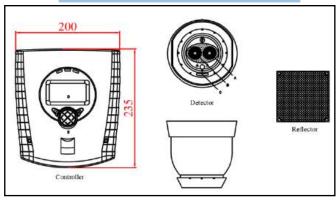
I9105R



HD1012



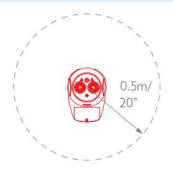
HD1016



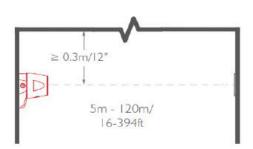
❖ SYSTEM DESCRIPTION



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.

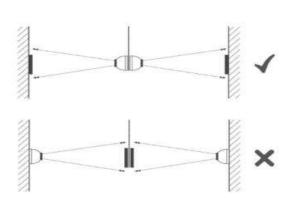


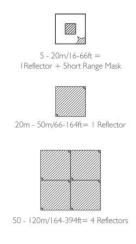
Ensure clear line of sight from detector to reflector



Mount on soild surfaces (structural wall or girder)

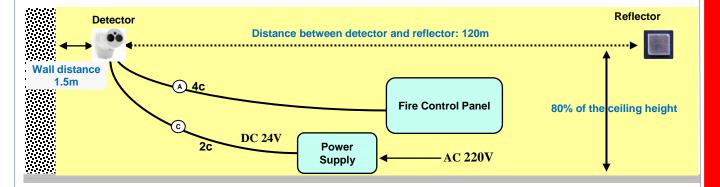
- Check the beam spacing against local regulations.
- Position beam as high as possible, but with a minium distance of 0.5m from detector to ceiling.
- Mount detector and reflector directly opposite each other.
- Do NOT position detector where personnel or objects can enter the beam path.
- Do NOT position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

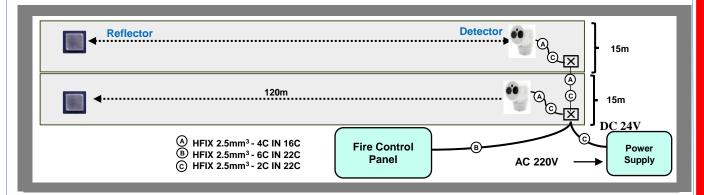




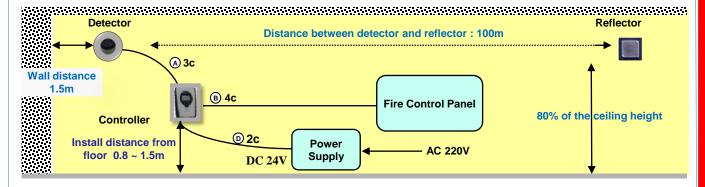
INSTALLTION GUIDE

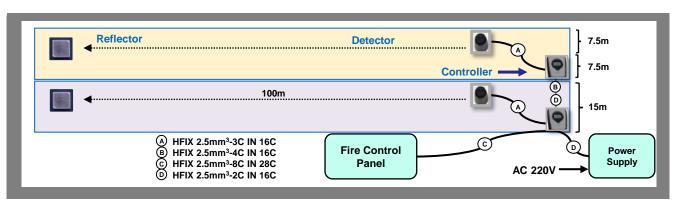
No. HD1012





No. HD1016



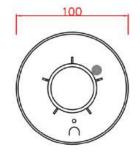


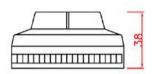
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SINGLE STATION SMOKE DETECTOR



PRODUCT DRAWINGS





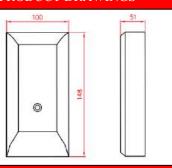
❖ SPECIFICATIONS

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





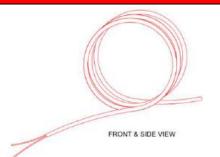
SPECIFICATIONS

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: 36m2
STANDARD LENGTH	100m
APPLICATION	WASTEWATER TREATMENT PLANT, WAREHOUSE, BATTERY ROOM, GENERATOR ROOM, ENGINE ROOM,

12 WIRE-TYPE HEAT DETECTOR

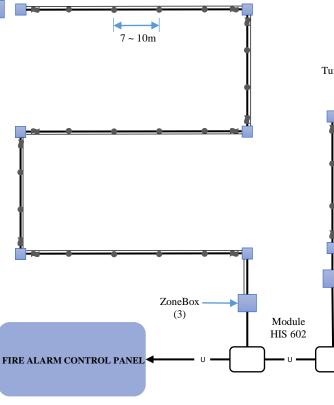
PRODUCT DRAWINGS

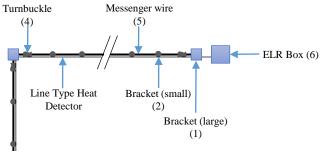




❖ SPECIFICATIONS

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,





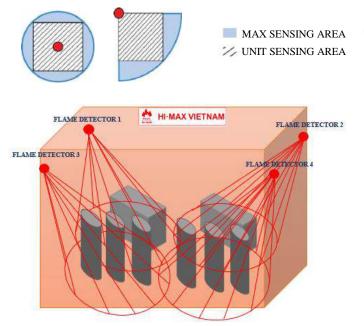
No	Installation Standard
1	Install the large rack in a straight line
2	Permanently install each small shelf section of 7-10m
3	Each zone will connect to a ZoneBox
4	Fixing screws - Bracket (large): 2EA Fixing screw - Bracket (small): 1EA
5	Attach the cable to the bracket
6	Connect a resistor at the end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

13

FLAME DETECTOR/ EXPLOSION PROOF FLAME DETECTOR

MODEL No	IRT-330-K	IRT-021-K
PRODUCT		
PRODUCT DRAWINGS	95	05
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
ТҮРЕ	IR3	IR3 Ex d IIC T6, Ex tD A2I IP67 T85°C
APPLICATION	MUSEUM, GYMNASIUM, CONFERENCE, HOTEL LOUNGE, AIRPORT, ART CENTER, DOM BASEBALL PARK, FACTORY, PLANT, WAREHOUSE, CLEAN ROOM,	

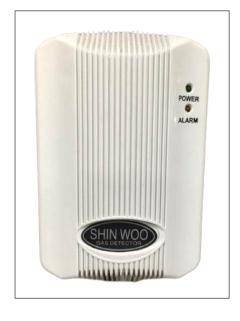
❖ REFERENCE SENSING AREA



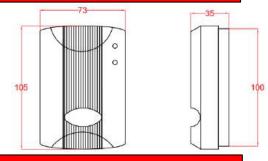
SENSING ANGLE SENSING DISTANCE

- ☐ 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



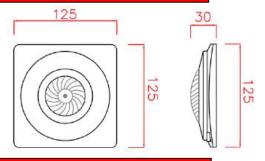
❖ SPECIFICATIONS

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

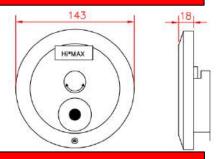
MODEL No	HE2006-1
POWER SOURCE	DC 24V / 120mA
AMBIENT CONDITION	-10°C TO 50°C, 95% RH
SIZE	W125mm x H125mm x D30mm / 100g
SOURCE OF LIGHT	HIGHT BRIGHTNESS LED
INSTALLATION HEIGHT	2.0m ~ 2.5m
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH, RESTAURANT, DEPARTMENT STORE, HOTEL, COMPUTER ROOM,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

16

MANUAL CALL POINT (CIRCLE)



PRODUCT DRAWINGS



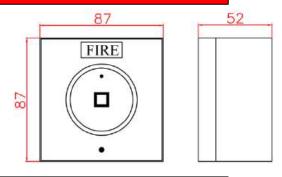
❖ SPECIFICATIONS

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



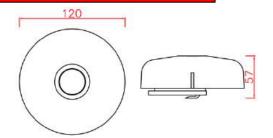
SPECIFICATIONS

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

HITCO

PRODUCT DRAWINGS



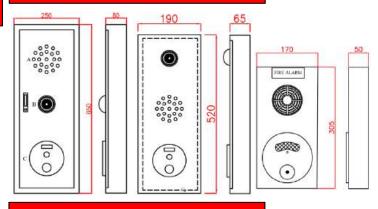
❖ SPECIFICATIONS

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

HM4007 HM4009 HM40098

❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No (WALL MOUNT TYPE)		HM4007 (STEEL, INOX), HM4009 (STEEL) HM4009S (ABS)
	HM4007	W250mm x H650mm x D80mm / 4.5Kg
SIZE / WEIGHT	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

GAS DISCHARGE

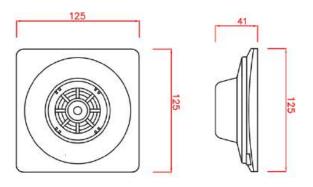
❖ SPECIFICATIONS

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 T	HE DOOR
APPLICATION	ELECTRIC ROOM, C BUILDING SAFTY CEN 	ŕ

21 ELECTRIC SIREN



PRODUCT DRAWINGS



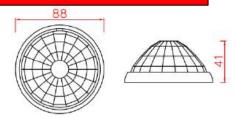
SPECIFICATIONS

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



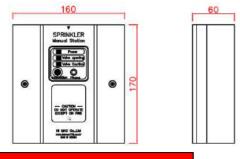
❖ SPECIFICATIONS

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



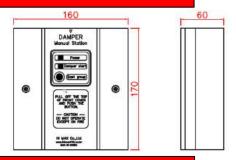
❖ SPECIFICATIONS

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

DAMPER Manual Station | Section | S

PRODUCT DRAWINGS



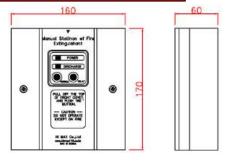
SPECIFICATIONS

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 EXTINGUISING 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,

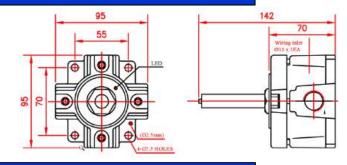
* Explosion Proof Type

26

EXPLOSION PROOF TYPE HEAT DETECTOR



❖ PRODUCT DRAWINGS



SPECIFICATIONS

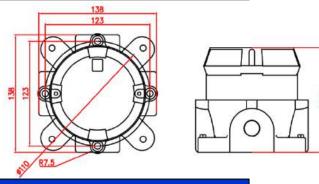
MODEL No	HK-EXFD 70
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
POWER SOURCE	DC 24V
AMBIENT CONDITION	-10°C TO MAX 20°C LOWER TO THE PERFORMANCE TEMPERATURE OF THE DETECTOR, MAX 95% RH
SIZE/WEIGHT	W95mm x H142mm x D95mm / 0.8Kg
OPERATING TEMPEATURE	70°C/90°C/120°C/130°C
OPERATING INDICATOR	LED-RED COLOR
TYPICAL 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

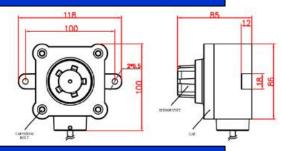
MODEL No	FSD
ТҮРЕ	EXPLOSION PROOF (Ex d IIC T6)
POWER SOURCE	DC 24V
SIZE/WEIGHT	W138mm x H123mm x D138mm / 1.8Kg
RANGE OF DETECT	UNDER 4m: 150m ² OVER 4m ~ UNDER 20m: 75m ²
APPLICATION	HAZARDOUS AREA

28

EXPLOSION PROOF TYPE GAS MANUAL STATION



❖ PRODUCT DRAWINGS



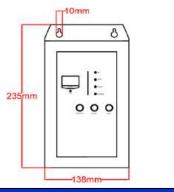
❖ SPECIFICATIONS

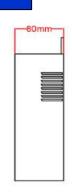
MODEL No	EX-301
TYPE	EXPLOSION PROOF (Ex d IIB T4)
MEASUIRNG GAS	COMBUSTIBILITY GAS (LPG, LNG)
POWER SOURCE	DC 12V ~ 24V
OPERATING TEMPERATURE	- 20°C ~ + 50°C
SIZE	W100mm x H118mm x D85mm
APPLICATION	HAZARDOUS AREA

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
MEASUIRNG 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,

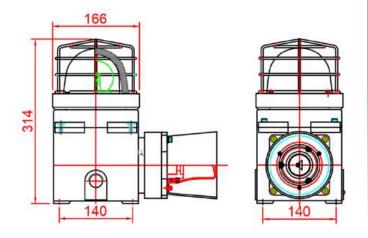
***** Explosion Proof Type

30

EXPLOSION PROOF TYPE ALARM SIGNAL & SIREN SIGNAL



❖ PRODUCT DRAWINGS



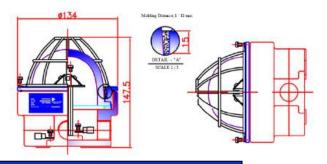
❖ SPECIFICATIONS

MODEL No	FXAL
ТҮРЕ	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

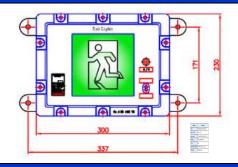
***** Explosion Proof Type

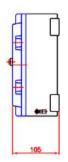
32

EXPLOSION PROOF TYPE EXIT LIGHTING



❖ PRODUCT DRAWINGS





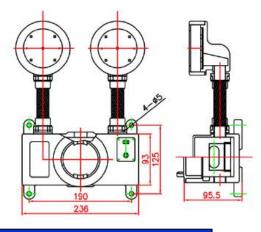
SPECIFICATIONS

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

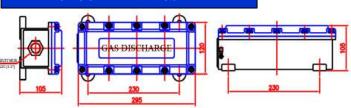
MODEL No	WC-14-3
ТҮРЕ	EXPLOSION PROOF (Ex d IIC T6 IP65)
POWER SOURCE	AC 220V
LIGHTING VOLTAGE	4.4V
STANDBY POWER	DC 4.8V, 1300mAh Ni-Cd
APPLICATION	HAZARDOUS AREA

34

EXPLOSION PROOF GAS DISCHARGE WARNING LIGHT







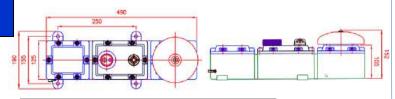
SPECIFICATIONS

MODEL No	FUFL
TYPE	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
THE	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

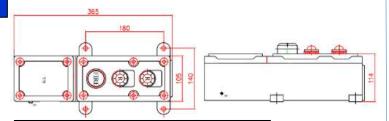
MODEL No	P-2
	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
ТҮРЕ	CLOSE ON THE WALL (FLUSH)
CONSIST	MANUAL CALL POINT RATED VOLTAGE: - DC 24V CONTACT RATING CURRENT: - NORMAL - 0mA, - CONTACT - 100mA
	ALARM BELL RATED VOLTAGE: - DC 24V CONTACT RATING CURRENT: - NORMAL - 0mA, - CONTACT - 50mA SOUND: MORE THAN 90dB AT 1M
	TERMINAL BOX: - NUMBER OF POLES: 6P 20A - INLET PIPE SIZE: PF 3/4
SIZE/WEIGHT	W190mm x H490mm x D152mm / 9Kg
INSTALLATION HEIGHT	0.8m ~ 1.5m
APPLICATION	HAZARDOUS AREA

36

EXPLOSION PROOF TYPE GAS MANUAL STATION



❖ PRODUCT DRAWINGS



SPECIFICATIONS

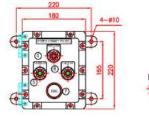
MODEL No	FMS
ТҮРЕ	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
POWER SOURCE	DC 24V
SIZE/WEIGHT	W140mm x H365mm x D114mm / 5Kg
CONTACT RATING CURRENT	100mA
INSTALLATION HEIGHT	0.8m ~ 1.5m
APPLICATION	HAZARDOUS AREA

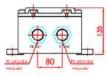
37

EXPLOSION PROOF TYPE SVP PANEL



❖ PRODUCT DRAWINGS





SPECIFICATIONS

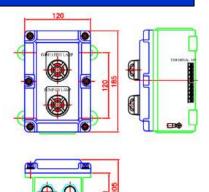
MODEL No	SVP
ТҮРЕ	EXPLOSION PROOF (Ex d IIB+H ₂ T6 IP65)
	CLOSE ON THE WALL (FLUSH)
CONSIST	- POWER INDICATOR RATED VOLTAGE: DC 24V LED COLOR: RED
	- VALVE CAUTION LAMP RATED VOLTAGE: DC 24V LED COLOR: YELLOW
	- VALVE DISCHARGE LAMP RATED VOLTAGE: DC 24V LED COLOR: GREEN
	- TERMINAL BOX NUMBER OF POLES: 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

38

EXPLOSION PROOF PUMP MONITOR LIGHT



▶ PRODUCT DRAWINGS



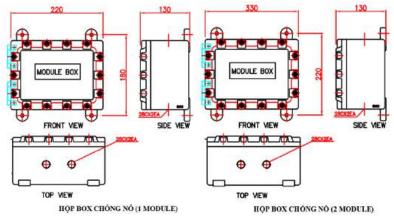
SPECIFICATIONS

MODEL No	FOB-2
ТҮРЕ	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

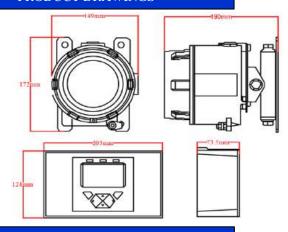
MODEL No	FCJB
ТҮРЕ	EXPLOSION PROOF (Ex d IIB+H ₂ T6)
COLOR	RED
APPLICATION	HAZARDOUS AREA
SIZE/WEIGHT	CUSTOM MADE

40

EXPLOSIVE PROOF BEAM SMOKE DETECTOR



❖ PRODUCT DRAWINGS



SPECIFICATIONS

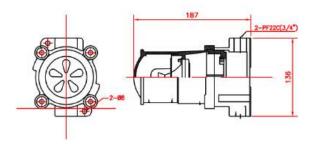
MODEL No	FIRERAY 3000 EXD
INSTALLATION HEIGHT	ABOVE 10m
DETECTION RANGE	FROM 5m TO 100m
POWER SOURCE	DC $12 - 36V \pm 10\%$
AMBIENT CONDITION	-10°C TO 55°C
ACCREDITATION	(UL. CE) Ex II 2GD/ Ex db op is IIC T6 Gb/ Ex tb IIIC T85°C Db/ IP.66
APPLICATION	MUSEUM, SPORT ROOM, WORKSHOP ROOM, AIRPORT, EXHIBITION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

41

EXPLOSION PROOF TYPE ELECTRIC SIREN



PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	FP-FKEX
ТҮРЕ	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

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 150 ADDRESS (INPUT: 600 / OUTPUT: 600)
INPUT	16 LOOP x 150 ADDRESSES x 4 INPUTS = 9600 INPUTS
OUTPUT	16 LOOP x 150 ADDRESSES x 4 OUTPUTS = 9600 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

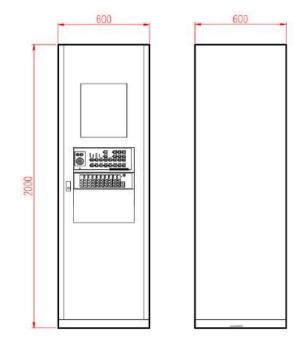
Connect the sub cabinet

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
ТҮРЕ	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 150 ADDRESS (INPUT: 600 / OUTPUT: 600)
INPUT	16 LOOP x 150 ADDRESSES x 4 INPUTS = 9600 INPUTS
OUTPUT	16 LOOP x 150 ADDRESSES x 4 OUTPUTS = 9600 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

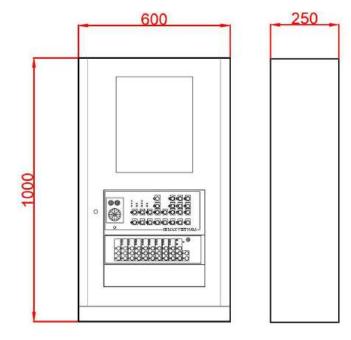
Ability to connect multiple sub-cabins

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



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ADDRESS CONTROL PANEL (R-TYPE) – WALL TYPE



❖ SPECIFICATION

MODEL No	HIP600W
ТҮРЕ	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

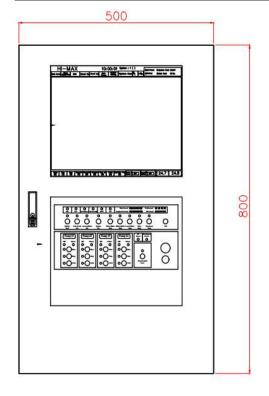
Connect the sub cabinet

Ability to connect multiple sub-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



GRAPHIC USER INTERFACE



Screenshot function

Save the current screen image



Fire alarm display screen

Automatically opens the first fire alarm display window



❖ Module circuit operating conditions and test circuits

Module input and output displays the operating status of the facility

Each module test input and output



Control screen

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



* The screen displays the operating status of each module

Each loop module input and output operation status display on the screen



Operational records display screens

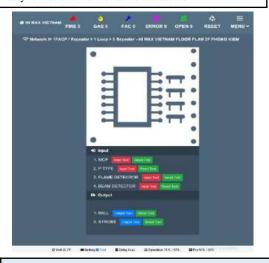
Each problem, date of occurrence search function Quick check to a representative color display Printer output function and save excel file

GRAPHIC USER INTERFACE



Main display screen

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



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



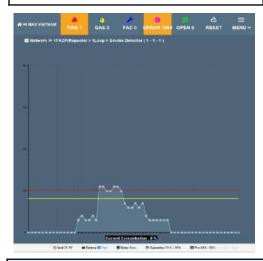
The screen displays loop information

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



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 sensor information

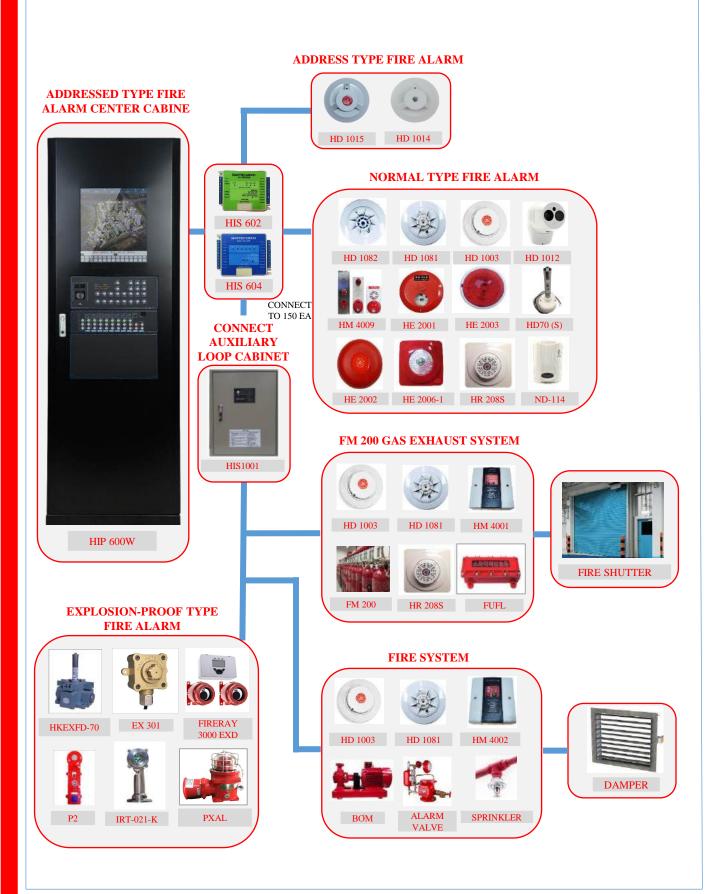
Indicates the current temperature increase rate or smoke concentration of the fire detector



The screen displays system history

Save system activity information for each specific date and time

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



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











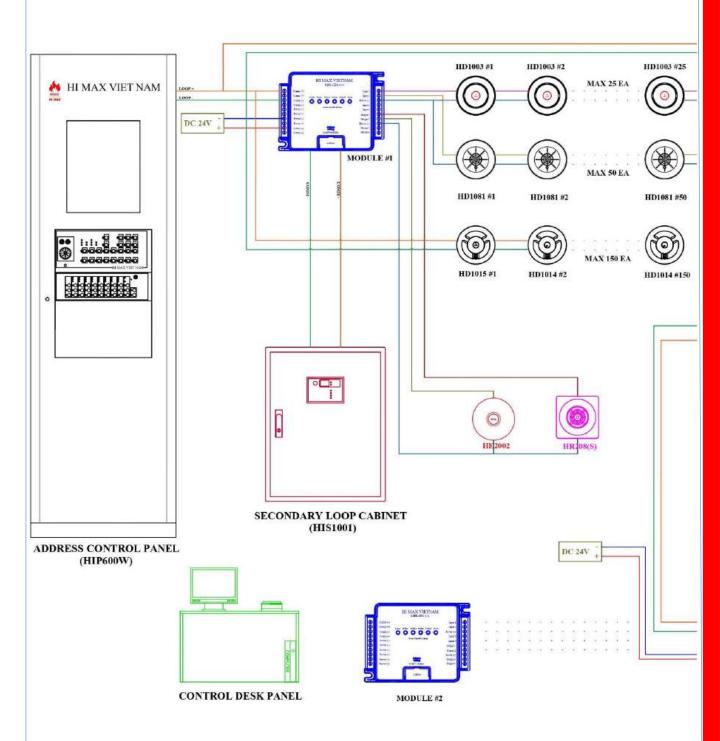


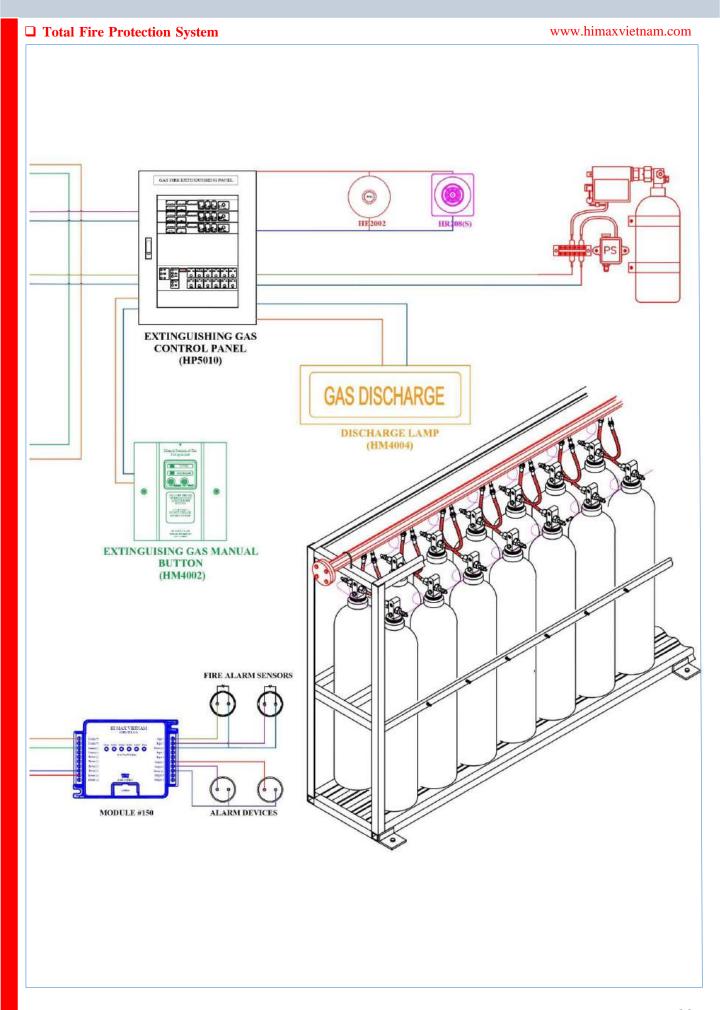






❖ CONNECTION DIAGRAM OF ADDRESSED FIRE ALARM SYSTEM

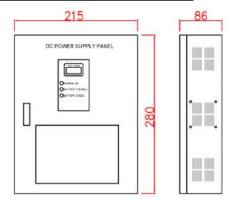




45 DC POWER SUPPLY 24V 5A



PRODUCT DRAWINGS



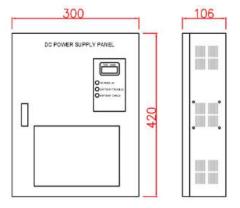
SPECIFICATIONS

MODEL No	HR6023	
ТҮРЕ	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







❖ SPECIFICATIONS

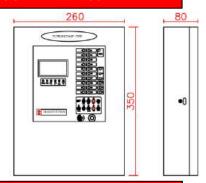
MODEL No	HR6023	
TYPE	WALL MOUNT	
POWER SOURCE	AC 220V, 50/60 Hz	
SIZE/WEIGHT	W300mm x H420mm x D106mm / 7Kg	
OUTPUT VOLTAGE	DC 24V, 15A	
STANDBY POWER	Ni-Cd 24V / 2.6Ah	
APPLICATION	SAFETY CENTER WORKS, NEAR CABINET CENTER CONTROL,	

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FIRE ALARM CONTROL PANEL (P-TYPE)



❖ PRODUCT DRAWINGS



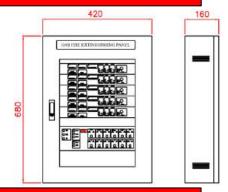
❖ SPECIFICATIONS

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



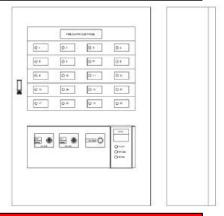
SPECIFICATIONS

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			
ТҮРЕ				
POWER SOURCE				
SIZE/WEIGHT				
CONTROL VOLTAGE	CUSTOM MADE			
STANDBY POWER				
APPLICATION				

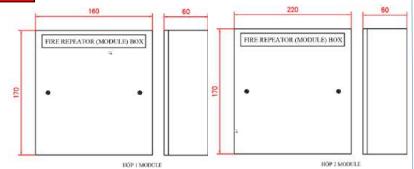
50 MODULE BOX







❖ PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	HR613	HR613(S)
ТҮРЕ	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 IEA	ABLE TO INCLUDE REPEATER 1EA- 2EA. MADE TO ORDER: OVER 2EA

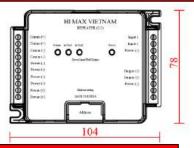
20

☐ Total Fire Protection System

MODULE 2/2 51



PRODUCT DRAWINGS



* SPEC

TYPE

Devel C Deve	Sept Sept
MODEL No	HIS602
POWER SOURCE	DC 24V
AMBIENT CONDITION	-10°C ~ 50°C, 95% RH
SIZE/WEIGHT	W104mm x H78mm x D20mm / 100g

INPUT/OUTPUT FOR ADDRESSABLE FIRE ALARM CENTRAL APPLICABLE LIMITATIONS

R-TYPE / ADDRESS

CABINET POWER CONSUMPTION SUPERVISE: 3mA, ACTIVE: 3mA

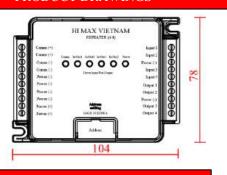
OUTPUT POWER DC 24V, 0.8A

HEAT DETECTOR: 50 EA/MODULE CONNECT THE DETECTOR SMOKE DETECTOR: 25 EA/MODULE

MODULE 4/4



PRODUCT DRAWINGS



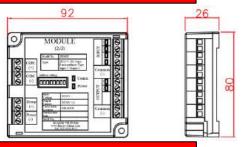
SPECIFICATIONS

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

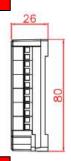
MODEL No	HIS602		
POWER SOURCE	DC 24V		
AMBIENT CONDITION	-10°C ~ 50°C, 95% RH		
SIZE/WEIGHT	W92mm x H80mm x D26mm / 130g		
ТҮРЕ	R-TYPE / ADDRESS		
INPUT/OUTPUT	2/2		
APPLICABLE LIMITATIONS	FOR ADDRESSABLE FIRE ALARM CENTRAL CABINET		
POWER CONSUMPTION	SUPERVISE: 6mA, ACTIVE: 35mA		
OUTPUT POWER	DC 24V,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

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GAS PACKAGE HOSE REEL







PACKAGE 2 Bottle



CO2 Hose reel(15M)

No	PRODUCT NAME	SPECIFICATIONS	BUILT IN GAS WEIGHT (Kg)	NON BUILT IN GAS WEIGHT (Kg)	PROTECTION AREA (m³)	MODEL NO.
1		30kg x 1BOTTLE	190	160	46.7	HF30-1
2		43kg x 1BOTTLE	203	160	66.9	HF43-1
3	HFC-23 (PACKAGE)	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		35kg x 1BOTTLE	195	160	56.5	HC35-1
7	HCFC-BLEND (PACKAGE)	50kg x 1BOTTLE	210	160	80.7	HC50-1
8		100kg x 2BOTTLE	345	245	161.5	HC100-2
9		50kg x 1BOTTLE	210	160	67.6	HMF50-1
10	HFC-222ea	75kg x 1BOTTLE	235	160	101.4	HMF75-1
11	(FM200) (PACKAGE)	100kg x 2BOTTLE	345	245	135.2	HMF100-2
12		150kg x 2BOTTLE	445	245	202.8	HMF150-2
13	HFC-125	50kg x 1BOTTLE	210	160	71.6	HFC50-1
14	(PACKAGE)	100kg x 2BOTTLE	345	245	143.1	HFC100-2
15	CO ₂	45kg x 1BOTTLE	205	160	45	CO ₂ 45-1
16	(carbon dioxide) (PACKAGE)	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

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AUTOMATIC FIRE EXTINGUISHING GAS SYSTEM-FM 200



SPECIFICATIONS & MAIN FUNCTIONS

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.

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

- 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			

3. The main function of the product and circuit construction

Easy to maintain
and store
This product after
installation at the
construction site or
factory, in the event of a
problem with the product,
the warranty will be very
easy because the shell and
the body are separated.

structure
The external input
circuit is cut to
minimize noise, as well
as false motion. The
internal uses the MPU
to manage and control
the entire input / output

of the system.

Stable circuit

Functional protection

The original source is put into use, must check the status of the outer shell of the sensor and issue a warning in case the system cannot release fire extinguishers normally and in case of false warnings, rescue foam The fire will not be mistakenly launched.

Protective boot by hand

In order to minimize false alarms, the manager does not pay attention to the manual switch when starting the fire. The fire box is built with a second protective cover when the motion is saved to memory.

Strict operation method

In order for the manager to operate the receiving device easily in normal as well as in case of fire, it is designed to be able to check the status of input / output as well as switch layout to confirm.

(In sensor circuit A, B after separate operation within 45 seconds, if other sensor devices do not work, the system can be restored automatically to prevent wrong operation)

The product is designed after considering factors such as: Installation place + function + experience + KFI standard

- Protection circuit H / W, S / W output solenoid valve is composed of protective device 2 times, the error code generated is indicated in the FND window.
- Fire alarm: Warning sound and electric bell, capable of using internal DIP S / W according to the installation situation.
- Ability to store device memory and manage fire (maximum: 250 cases), after connecting to a PC with development management capability via FND export, and batch management.
- Selectable exhaust time is up to a maximum of 30 seconds, selectable in 10 seconds, and can be checked using the MODE switch.
- Designed to be able to select the A and B contact points at the terminals in the actuator to use, including the device's own switch.
- The external wiring terminal is clearly divided in order to facilitate maintenance, storage and arrangement of terminals for convenient construction/ wiring.
- ❖ The input source is AC220V, 50/60Hz, which supplies the entire DC24V, DC5V system through static voltage circuit.
- AC, DC, PL +, COM-FUSE To protect the product from overloads that are used separately, apply static voltage DC24V, DC5V and FUSE (PS).

- 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

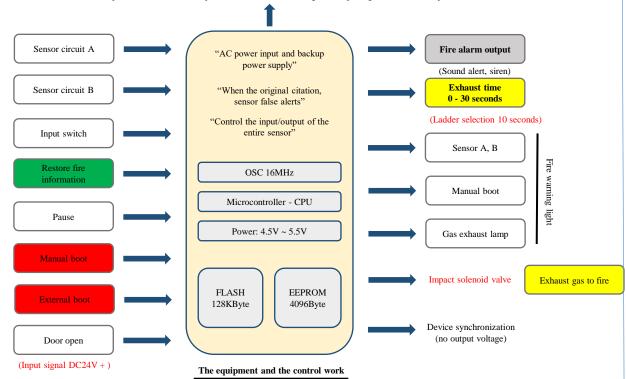
- The display unit has a fire and motion is turned on in the form of an icon, so it is convenient for the manager as well as ensuring visible.
- Receive sensor signal and manual start signal including basic function and alarm as well as fire indication.
- . When fires occur, the functions effect on some 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.

SYSTEM DIAGRAM

Lights to confirm device movement (Backup sensor source, manual point A, B sensor, electromagnetic impact, gas release, door open)



(Fire data recovery, standby power source, alarm stop, electromagnetic stop, device sync stop, manual start, operation test, auto recovery)

When fire arises, it is possible to check management and storage in EEPROM from time to time. Although all sources as the primary / standby sources are blocked, the information generating fire will be maintained.

PERFORMANCE STATUS AND CONTROL PANEL

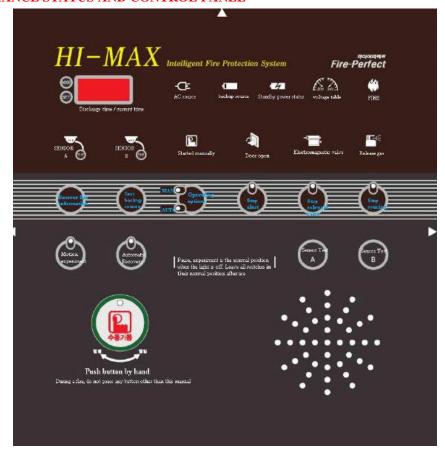


Table showing operating status and control

> FUNCTIONAL PERFORMANCE STATUS



When the supply voltage is applied to the AC circuit inside the product, the lamp turns on and receives signals from the contact via the AC/DC change circuit and the lamp is turned on.



When the ac power supply is blocked and when using the power supply for the circuit inside the product using a standby power (DC), the light is on. When a signal is received from a device that transmits signals through an AC/DC change circuit, the light is on. The yellow light of the standby power is on.



The voltage of the backup power (battery) is below 18V or the backup power fails, when the Hughes wire is broken, the light is on, the backup power uses Ni-Cd DC24V/600mAh capacity.



When the power supply for the internal circuit is equal to the alternating current source (AC 220V) and the standby power supply, it indicates the status of voltage, the normal state of 24V, when the 20V lamp is on, it means that the charger is not fully charged and need to be checked. again.



When the sensor circuit motion A, B or when started manually with flashing lights, continuous switching on and off has nothing to do with the off switch.



When the sensor circuit A, B are switched on, the light turns red, and the yellow light sensor line turns off when yellow is broken. Connect the end of the line. Works concurrently with sensor B.



Press the manual start switch on the surface of the fire extinguisher or when pressing the external manual start switch, the light goes on. At the same time, the time of air release and audible warning is about When the input pauses outside, during movement the lamp will turn on and off in the Thanking state.



When opening a manual fire extinguisher box outside, there will be a warning sound and the light will turn on. External terminal input signal is (+) 24V.



After manual start-up or sensor circuit A, B if the exhaust time is ______. At the same time release the solenoid valve, and turn on the light. When the electromagnetic stop, the lamp will turn off, When input pauses (ABORT) outside, the light will turn off, turn on in the state of ______ "flashing".



After manual action or sensor A, B if the solenoid valve is moving, it will receive the input signal from the switch and the light is off. At this time, the light is off.

FUNCTION CONTROL PANEL



After restoring the manual start-up circuit or sensor circuit A and B when the sensor circuit continues to operate irreversibly (When input is more than 3 seconds, there is a system RESET function). After selecting / changing the wrong operation prevention time and room time, if the switch is pressed, "fire information recovery" will be applied.



The internal reserve is Ni-Cd DC24V / 600mAh battery and if the standby power test switch is pressed, the AC power is blocked, if the switch is pressed for more than 2 seconds, at the current time table output will show reserve power voltage. For example



When automatically, the sensor circuit A, B move together, the solenoid valve follows the actuator to actuate the fire fighting gas. (When selected, the light goes on). When using manual sensor circuit A, B simultaneously moves but only emits a siren warning.



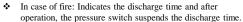
If the switch is pressed, the indicator light flashes (turns on, off), pauses the sound of a warning and siren.



If the switch is pressed, the warning light blinks (on and off) and the solenoid valve does not start. In case, if the stop switch is started by manual start or sensor (A, B), the discharge time is stopped at state , If pressed again, it will count to



Normal time: Indicates current time. (Does the source blocker still maintain the current time)







When the switch is pressed, the indicator light blinks (on, off), and the output with the external synchronization device is stopped.

(Synchronous equipment: FAN, SHUTTER, DAMPER / Contact capacity: below AC250V / 4A).



After pressing the motion test switch, pressing switches A and B test the circuit, operating the same as the sensor circuit operation. Can check alarm and siren audio output.



After pressing the auto-recovery switch, when the test is active, pressing the circuit test switch, the circuit is operating only for the duration, and it is possible to test the circuit separately. (If pressing for more than 3 minutes in the state of pressing the auto-recover switch and motion testing, the function is restored)



Used when testing sensor circuits A and B in the state of pressing the test switch to operate. Appears fire alarm and siren, in state sensor A, B solenoid valve turned out so pay attention when doing experiments. Simultaneous motion with circuit experiment B.



The experiment operates automatically / manually with uniform movement, when the button starts manually on the surface of the product, after over the delay of launch, the solenoid valve acts to release the extinguishing gas.



Check Solution . Select the prevention of wrong movement and the launch time selection .



Select / change current time. (selection: slow - short, fast option - long).

FUNCTION CONTROL PANEL

 When the initial power is supplied to the device, automatically check the status of external connection, if the system is in the state of fire release foam as usual, it will display an error code and emit a warning sound.

 Check the error code that is capable of checking at the "Check the error code" attached inside the product and just follow the methods to handle the errors. E-.3

External manual control recovery signal is continuously fed.

Check the manual control box and extension cord.

The pause signal of the manual control box is continuously loaded.

Check the connection.

Pressure switch signals constantly being loaded.

Orbital Check connection and pressure switch (correct position / OFF)

The state of sensor circuit A, B is in motion.

Check wiring and recover fire information.

Temporary stop switch signal (ABORT) and fire information recovery

are continuously loaded.

Check the connection.

Malfunction of manual start switch input error.

Check switches and restore fire information.

Malfunction of Oheck wir

Malfunction of manual start switch input error.

Check wiring and recover fire information.

Er.55 S/W

 $\underline{S} \slash W$ DIP selection error and operator input error.

Check DIP S / W selection inside PCB.

Er.99

Error information inside the system

Ask the repair company.

> WHEN THE FIRE SYSTEM IS FINISHED, THE SOLUTION CHOICE AND THE TIME TO CHOOSE.

- SELECTION OF TIME REPORTER -

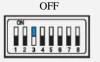
Launching time 30s Launching time 20s Launching time 10s Launching time 0s



(Use DIP S/W 1.2 times after selecting/changing the launch time is applied if the "fire information recovery" switch is pressed.)

Select launch delay time with manual start and A, B sensor, select 30s at launch start

FALSE IMPACT PREVENTION SETTING



(Use DIP S/W 3 times after selecting/changing the launch time is applied if the "fire information recovery" switch is pressed.)

- When the AC power light does not turn on.
- When the standby power induction lamp is on.
- When the short circuit light is on.
- When there is no fire the sensor light / fire light

 Firefighting
 equipment
 state and

 When there is no fire the sensor light / fire light

 is on.

 When there is no fire, the gas discharge lamp
 - When there is no fire, the gas discharge lamp comes on.
 - When the light indicates voltage of 20V.
 - When there is an abnormality in manual startup motion or sensor.
 - When there is no sound and siren.
 - When the solenoid valve fails to start.

- Check the status of connection to the source and contact the company.
- Check the status of standby power and charging.
- Check sensors cross and connect resistors.
- Check the sensors together and replace them.
- Check the pressure switch and replace.
- Check for standby and abnormal power at source.
- Check the control box manually and restore fire information.
- Check the temporary warning switch signal light.
- Check the pause switch and extension cord.

COMPOSITION IN AND OUT OF PRODUCTS



content is over

The construction consists of a system controller and a power unit.

Causes and

of handling

methods

- Includes alarm sound emitting device and DC24V standby source.
- Use separate AC / standby power switch for checking convenience.



- Composed of protective cover 2 times for manual start.
- Indicates a state of motion that responds quickly and is guaranteed to be seen by the status of the symbol light.



- When connecting terminals, preventive synchronous wires and manual control boxes are divided by color, and provide convenience.
- Separate design control part for maintenance and maintenance.



- Structure of assembling solenoid valve and fire-fighting foam container.
- · The discharge tube and valve assembly structure are used.

MANUAL FOR FIRE FIGHTING EQUIPMENT



The ac power lamp is on and the indicator voltage in the normal position is 24V (green), which indicates the current time. For example When the AC power supply is blocked (When the power is turned off), the AC power light is off and the power light is turned on. In the operation selected switch state, if the "auto" or "manual" light is on, the status is normal.



When the A, B circuit switches on the sensor and emits an external siren warning signal, an audible warning is also issued. At this time, the FND time motion indicates from 🔁 🗀 to 🔃 🗀 , after the completion of the motion solenoid valve and release the extinguishant gas, if the pressure switch is in motion, gas discharge lamp lights fire extinguishing, current time paused.

FIRE



Leave the control switch in the "manual" state to open the bottom cover, press the manual start switch, at the same time move the A, B sensor circuit, emit a warning sound, after the timer movement., release fire fighting gas. While the lamp movement in the signboard indicates the manual start is on. (When selecting manually, the motion of A, B sensor, counter launch time without movement)



When all electric devices fail to start, open the lid of the box, after removing the safety cover of the solenoid valve, emphasize the PUSH and fire fighting gas will be released. (After checking the control board circuit must be controlled)



Standby power inside the Ni-Cd battery DC24V.600mAh, if the standby power supply switch is pressed, the AC power is blocked, in case the switch is pressed for more than 2 seconds, at the current time output system in the display panel, indicates status of standby power voltage. For example [41]. At this time, in the table below [10], you must check the battery backup or not fully charged.



- Stop warning: When there is a fire, use it to stop the alarm with sound or siren and the light of the switch will flash.
- Electromagnetic stop: Used to stop the start of the solenoid valve when starting manually or when moving the sensor. For example 📋 🗓



Stop syncing: Stop output for syncing external devices when starting manually or with a sensor (A, B). (When moving the pressure switch, synchronizing output device and siren, gas discharge lamp turns on.)

EXPERI MENTAL

- Motion test: After pressing test switch A, B, it is possible to conduct the same test as the motion of the sensor
- Automatic recovery: If the switch is pressed, the sensor automatically recovers, it is possible to conduct the movement status of a separate circuit. (in the state at most automatic switch and motion test, if more than 3 minutes will restore function). Note: When conducting the motion test, if the FND counter is in the state [-1] [-], avoid touching the solenoid valve.



How to set and change the current time: Using the "SET" switch can select and change the time. (After selection can save automatically)







- This product automatically switches to standby power when power failure, every 3 months please check standby power.
- During the inspection, pay attention to the place where the foam is kept and the solenoid valve. After separating the solenoid valve, valve cover and safety pin, conduct the experiment.
- All switches that stop when the LED signal is turned off in the normal position, after using certain must put the switch to a fixed position.



- When moving A / B sensor, electromagnetic motion, external start, manual start, pressure switch, fire information recovery, prevention of wrong movement (45 seconds) will split into year / month / day - hour / minute / second to save to memory, after the manager can check the system
- Can be checked via the current time (FND Window) in the field or connected with information cable and PC

> ORDER INSTALLATION FIRE EQUIPMENT AND INTERNAL STRUCTURE

1) Installation of fire extinguishing system equipment

It is necessary to avoid installation in an uneven or sloped, certain place to fix fire fighting equipment to the floor.

2) Connect the power cord to an external device

When connecting to the terminal, it is required to use the specified electrical wire according to fire regulations, usually using company's products such as manual control box, ejection indicator light, electronic siren, etc., products of different companies are then tested to see if they are suitable or not

(3) Equipment containing fire extinguishers

Containers containing fire-fighting foam when releasing high pressure should be firmly installed and not moved.

(4) Flexible mounting

Flexible is a rigid connection device to maintain tightness to prevent gas leakage by connecting the discharge heads together as an F-shape of a fire-fighting foam container.

(5) Attach electronic valve and needle valve

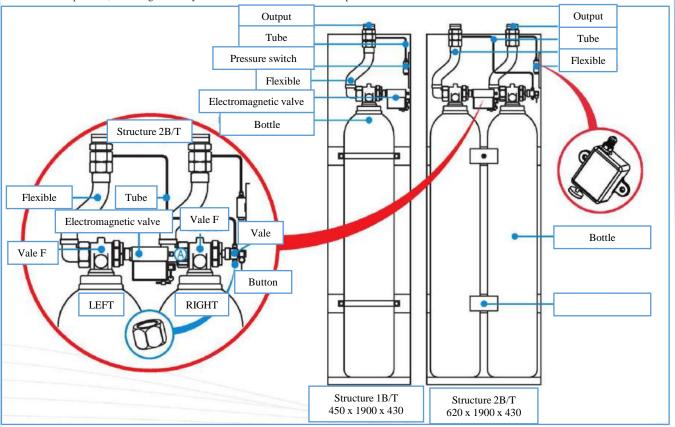
After attaching (A) safety latch to the electronic valve, the F-shaped of the fire-fighting foam reservoir (Left) is attached to the valve. Needle valve is only used 2B / T, fire-fighting foam reservoir (Right) after sticking with the F-valve, one side is attached to the falling part of the pipe above the left end, the other side is used to prevent plugging.

(6) Automatic fire extinguishing equipment

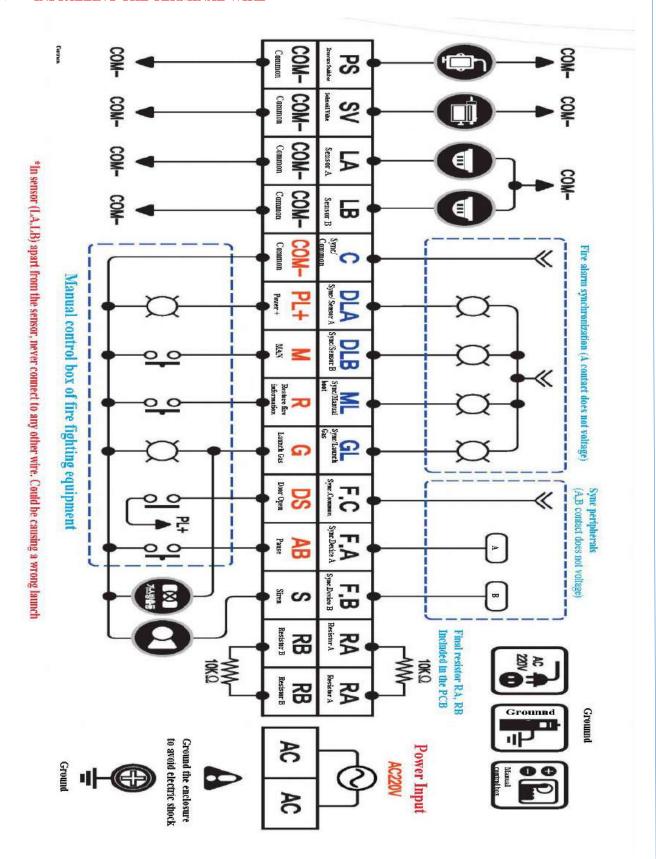
Turn on the power switch, check the status of the light on, the motion status of the switch, the motion status of the sensor. Conduct audible alarm test, output siren, synchronized with external equipment. After completion of the motion test, all switches must return to the normal position (the signal light must be turned off).

(7) Complete installation and things to note

After checking the light indicating the movement of the fire-fighting equipment, checking if the switches are back to their normal position, removing the safety valve of the solenoid valve is complete.



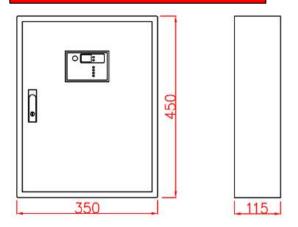
> INSTALLING THE TERMINAL WIRE



57 SECONDARY LOOP CABINET



❖ PRODUCT DRAWINGS



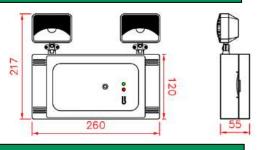
SPECIFICATIONS

MODEL No	HIS1001
ТҮРЕ	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

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EMERGENCY EXIT LIGHTING (SMALL)









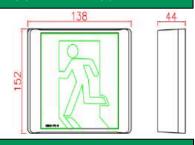


LP01 E

ELP03

ELP05

PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	HL3111	HL3111-1	
ТҮРЕ	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)







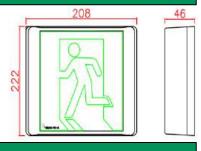




ELP03

ELP04 ELP05

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)











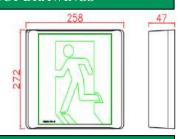
ELP01

ELP03

ELP04

ELP05

❖ PRODUCT DRAWINGS



SPECIFICATIONS

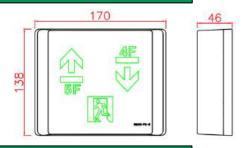
MODEL No	HL3119	HL3119-1	
TYPE	LARGE (SIDE)	LARGE (BOTH SIDES)	
POWER SOURCE	AC 220V / 6.6W	AC 220V / 6.6W	
SIZE/WEIGHT	W258mm x H272mm x D47mm / 1.5Kg	W316mm x H295mm x D80mm / 1.5Kg	
STANDBY POWER	4.8V, 600mAh Ni-Cd BATTERY	4.8V, 600mA Ni-Cd BATTERY	
STANDBY TIME	120 MINUTES	120 MINUTES	
INSTALLATION 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,		

EMERGENCY EXIT LIGHTING (TYPE OF DIRECTION)





❖ PRODUCT DRAWINGS

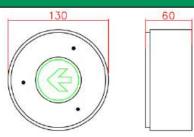


❖ SPECIFICATIONS

MODEL No	HL3117	
ТҮРЕ	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



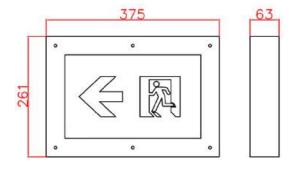


SPECIFICATIONS

MODEL No	HL3022	
ТҮРЕ	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
ТҮРЕ	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)





66

EMERGENCY EXIT LIGHTING (MEDIUM)



PRODUCT DRAWINGS



❖ SPECIFICATIONS

MODEL No	KT-610/KT-620		
ТҮРЕ	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,		

❖ PRODUCT DRAWINGS



SPECIFICATIONS

MODEL No	KT-650/KT-660		
ТҮРЕ	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	ТҮРЕ	OPERATING TEMPERATURE	GLASS BULB COLOR	PRESSURE	MATERIAL	PRODUCT
	UPRIGHT	68°C, 93°C	RED, GREEN	2,5MPa (25 kg/cm²)	BRASS	S4.8±0.3
SPK	PENDENT	68°C,93°C	RED, GREEN	2,5MPa (25 kg/cm²)	BRASS	54.6±0.3
	FLUSH TYPE	72°C		2,5MPa (25 kg/cm²)	BRASS	\$'8p

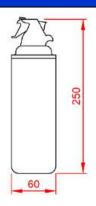
***** Explosion Proof Type

70

PORTABLE FIRE EXTINGUISHER

❖ PRODUCT DRAWINGS





SPECIFICATIONS

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

71 FIRE EXTINGUISHER

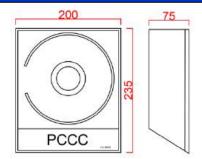
FIRE EXTINGUISHER CO ₂	FIRE EXTINGUISHER BC POWDER	FIRE EXTINGUISHER ABC POWER	
SPECIFICATIONS	SPECIFICATIONS	SPECIFICATIONS	
Type: CO ₂ Weight: 3Kg / 5Kg / 24Kg	Type: BC Powder Weight: 4Kg / 8Kg / 35Kg	Type: ABC Powder Weight: 4Kg / 8Kg / 35Kg	
CẦU CHỮA CHÁY	SPECIFICATIONS		
	Type: Powder BC / Power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

72

FIRE EXTINGUISHER BASE



❖ PRODUCT DRAWINGS



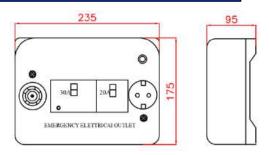
SPECIFICATIONS

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

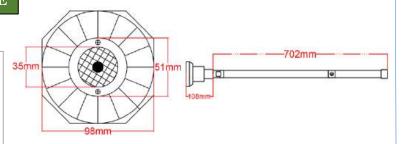
MODEL No	HM4013	
POWER INDICATING LAMP	1 PHASE 220V, 3 PHASE 380V	
AMBIENT CONDITION	-10°C ~ 50°C, 95% RH	
SIZE / WEIGHT	W235mm x H175mm x D95mm / 1.6Kg	
	3 PHASE - 3P 30AF / 30AT	
SWITCHES	1 PHASE - 2P 20AF / 20AT	
SOCKETS	3 PHASE - 3P 460V / 30A	
APPLICATION	OFFICE, BASEMENT, TERMINAL, WAREHOUSE, CHURCH,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

Equipment for testing and disassembling fire detectors

74 SMOKE AND HEAT DETECTOR TESTING DEVICE

Heat Detector Smoke Detector

❖ PRODUCT DRAWINGS



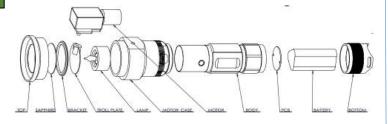
SPECIFICATIONS

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	

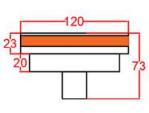
76

SMOKE AND HEAT DETECTOR INSTALLATION AND REMOVAL EQUIPMENT



❖ PRODUCT DRAWINGS





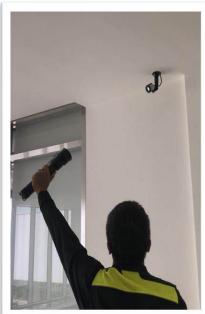
SPECIFICATIONS

1	MODEL No	DS-AD119
1	ORIGIN	KOREA
8	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







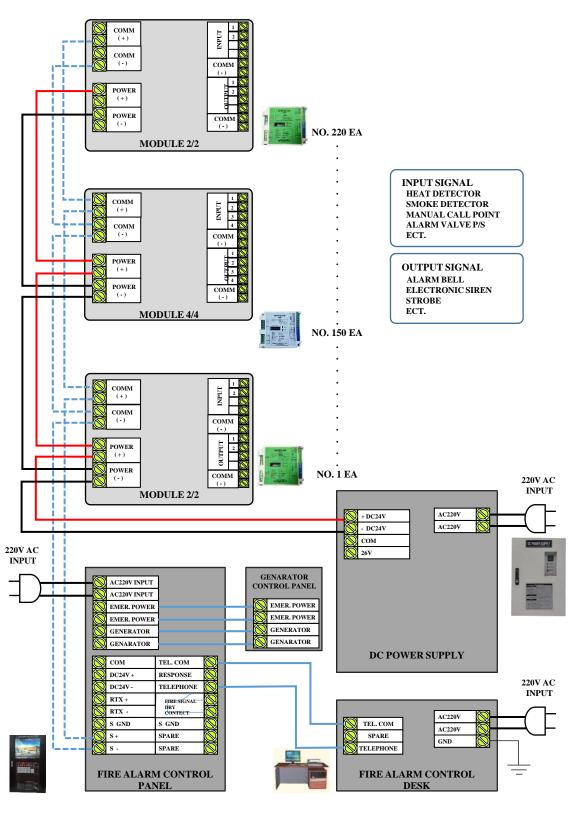
No	SCHEMATIC DIAGRAM	PAGE
1	R – TYPE - FIRE ALARM SYSTEM	64
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1

R – TYPE - FIRE ALARM SYSTEM

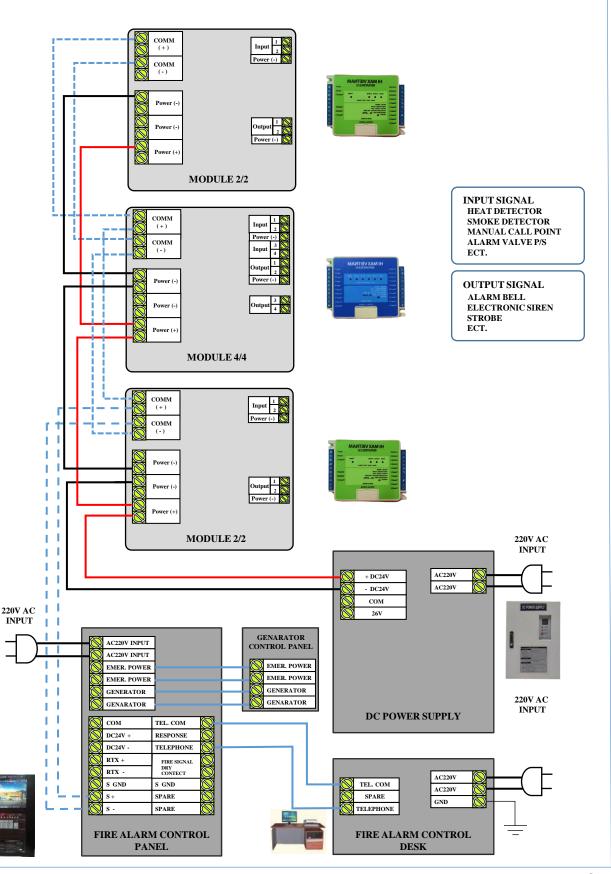
MODULE & FIRE CONTROL PANEL



2

R – TYPE - FIRE ALARM SYSTEM

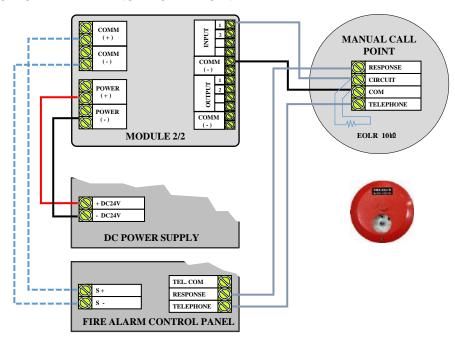
MODULE & FIRE CONTROL PANEL



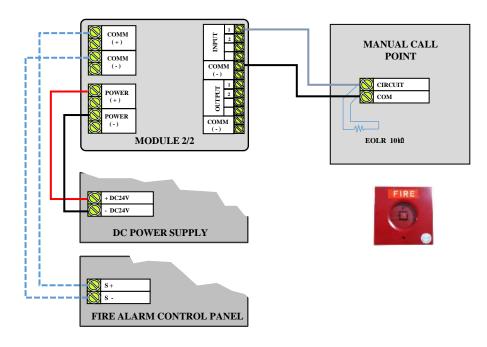
3

R – TYPE - FIRE ALARM MANUAL CALL POINT

CIRCLE TYPE MANUAL CALL POINT



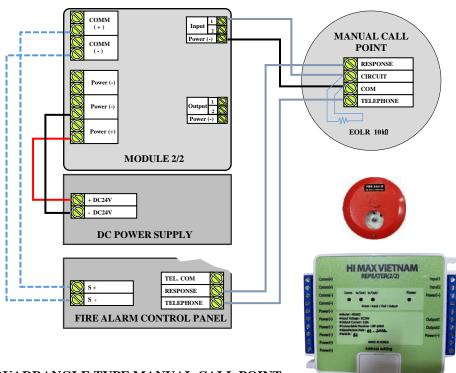
QUADRANGLE TYPE MANUAL CALL POINT



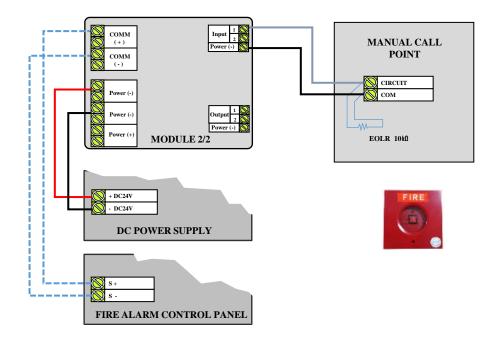
4

R – TYPE - FIRE ALARM MANUAL CALL POINT

CIRCLE TYPE MANUAL CALL POINT



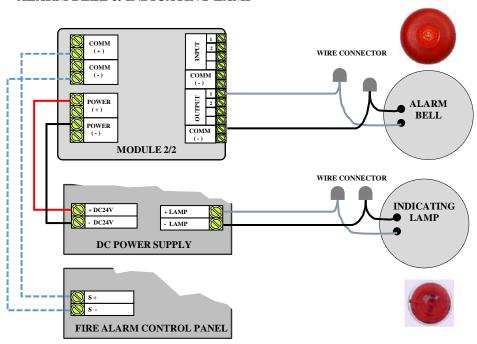
QUADRANGLE TYPE MANUAL CALL POINT



5

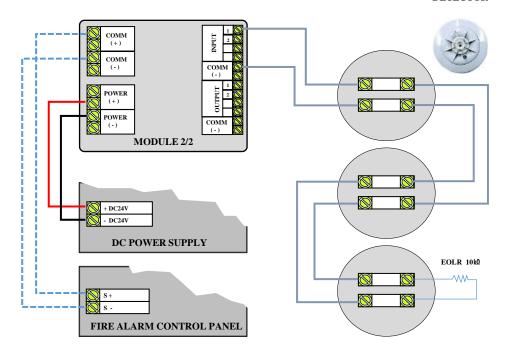
R-TYPE - BELL, LAMP, RISE OF RATE HEAT DETECTOR

ALARM BELL & INDICATING LAMP



RATE OF RISE HEAT DETECTOR

RATE OF RISE HEAT DETECTOR



6

R – TYPE - NORMAL DETECTOR

FIXED TEMPERATURE HEAT DETECTOR

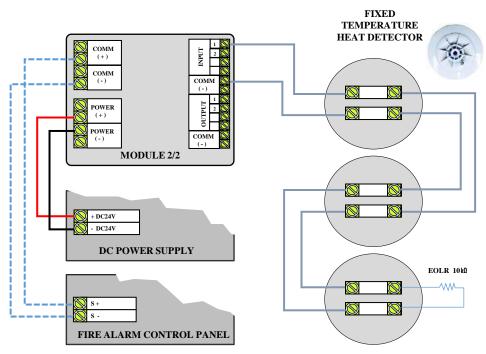
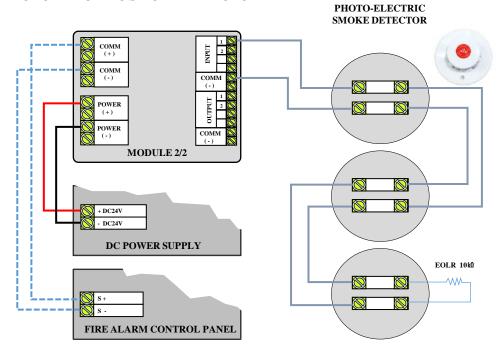


PHOTO-ELECTRIC SMOKE DETECTOR



7

R – TYPE - ANALOG DETECTOR

ANALOG TYPE HEAT DETECTOR

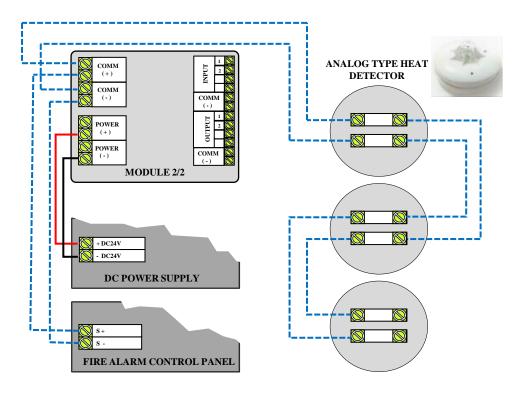
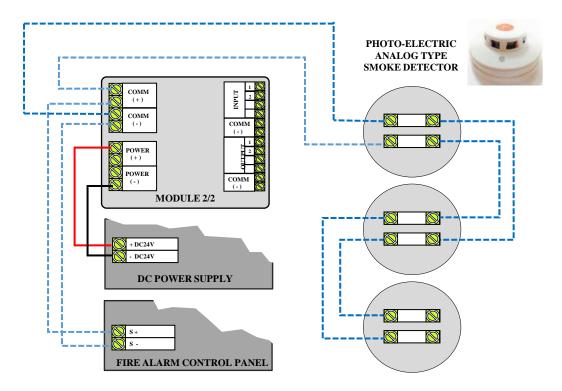
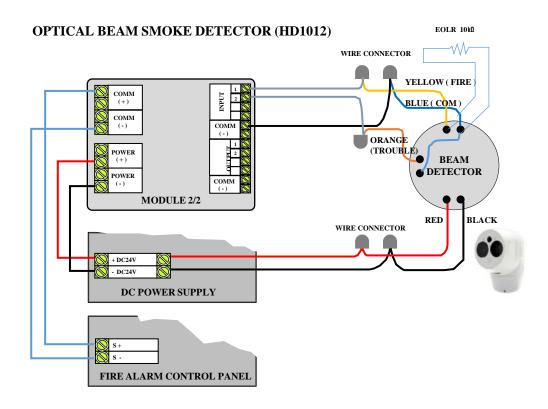


PHOTO-ELECTRIC ANALOG TYPE SMOKE DETECTOR

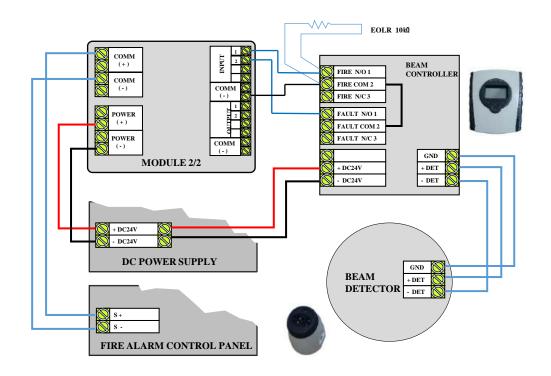


8

R-TYPE - BEAM DETECTOR



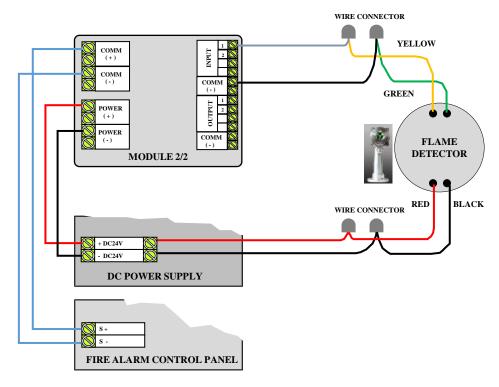
ANALOG TYPE OPTICAL BEAM SMOKE DETECTOR (HD1016)



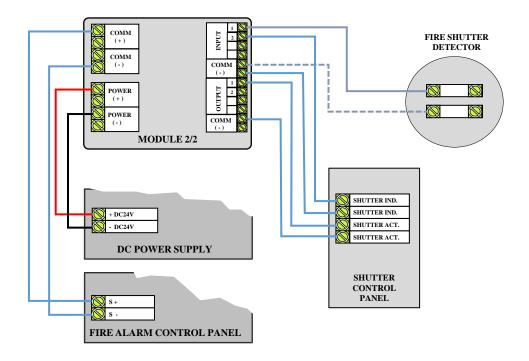
9

R – TYPE - FLAME DETECTOR

FLAME DETECTOR



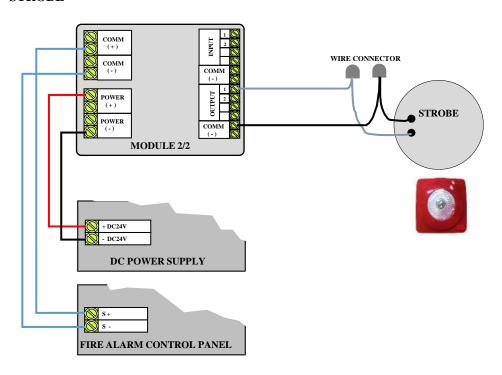
FIRE SHUTTER (The wiring also changes depending on the shutter manufacturer.)



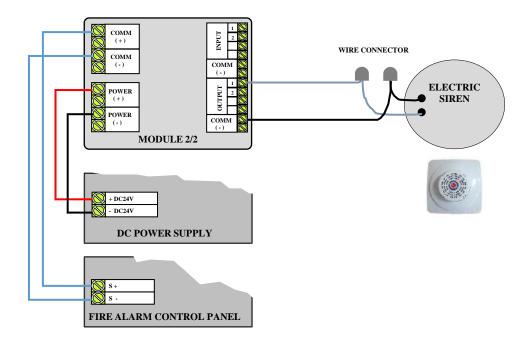
10

R – TYPE - STROBE, SIREN

STROBE



ELECTRIC SIREN

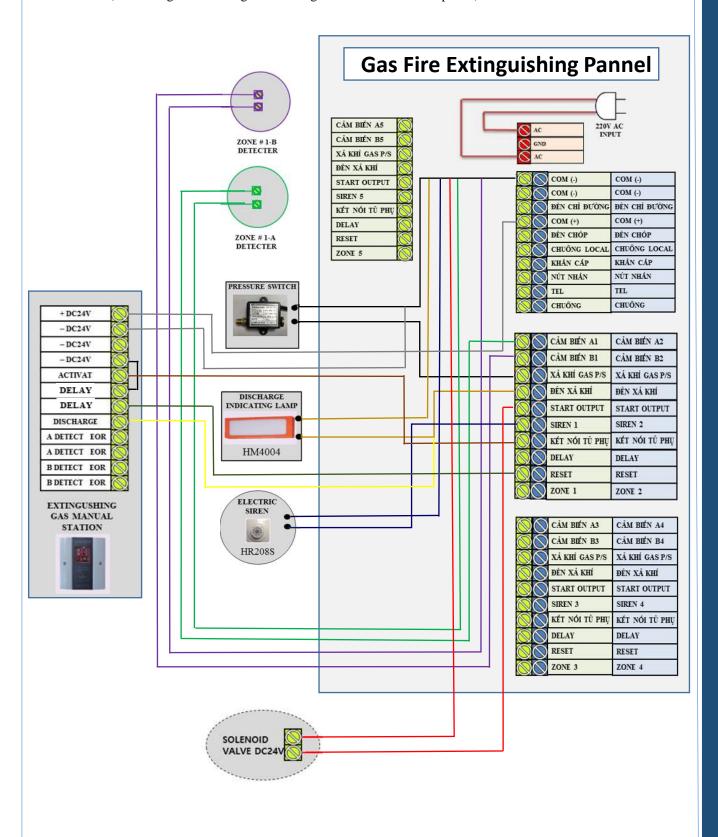


11

R – TYPE - EXTINGUISHING GAS CONTROL PANEL

EXTINGUSHING GAS CONTROL PANEL

(The wiring is also changed according to the customized fire panel.)

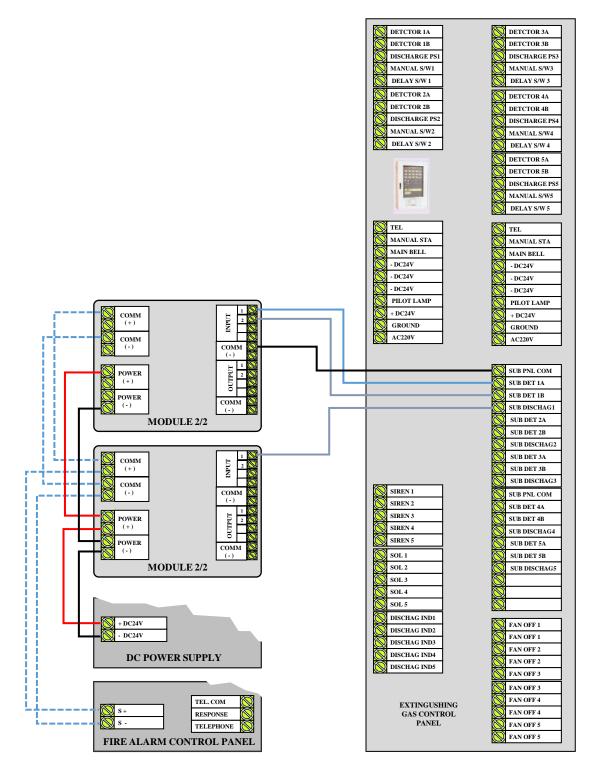


12

R – TYPE - EXTINGUSHING GAS SIGNAL REMOTE INDICATING CONNECTION

EXTINGUSHING GAS SIGNAL REMOTE INDICATING CONNECTION

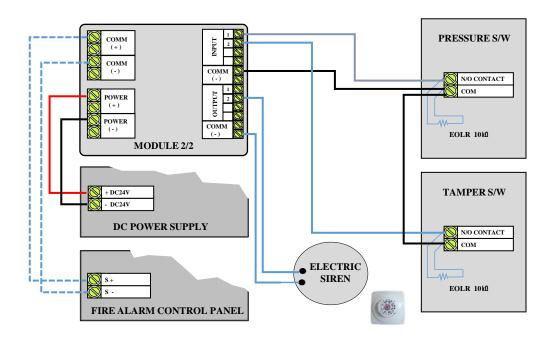
(The wiring is also changed according to the customized fire panel.)



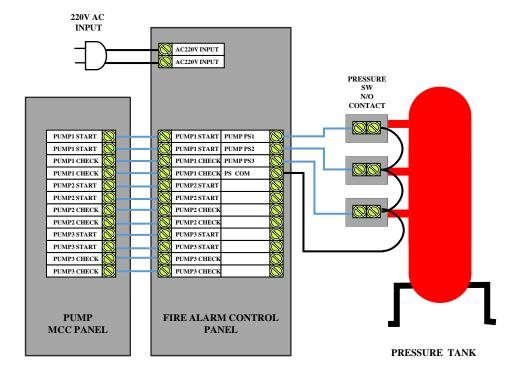
13

R – TYPE - PUMP, SPRINKLER

SPRINKLER ALARM VALVE



PUMP MCC & PRESSURE TANK

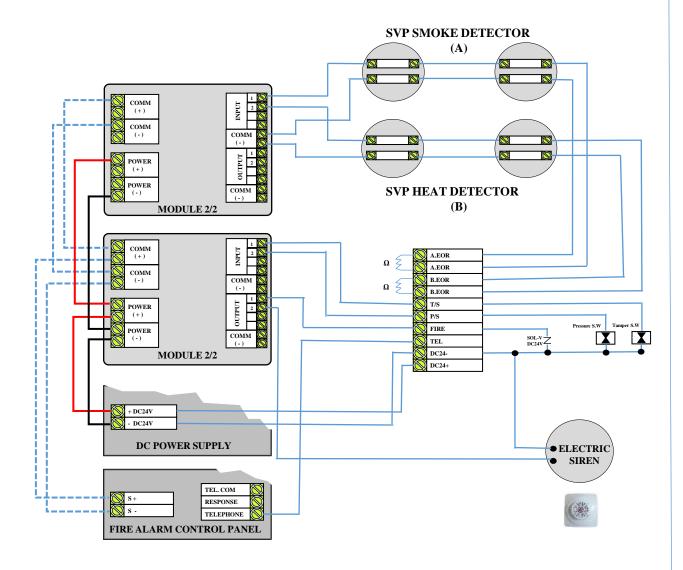


14

R – TYPE - SPRINKLER PREACTION VALVE (SVP) CONTROL

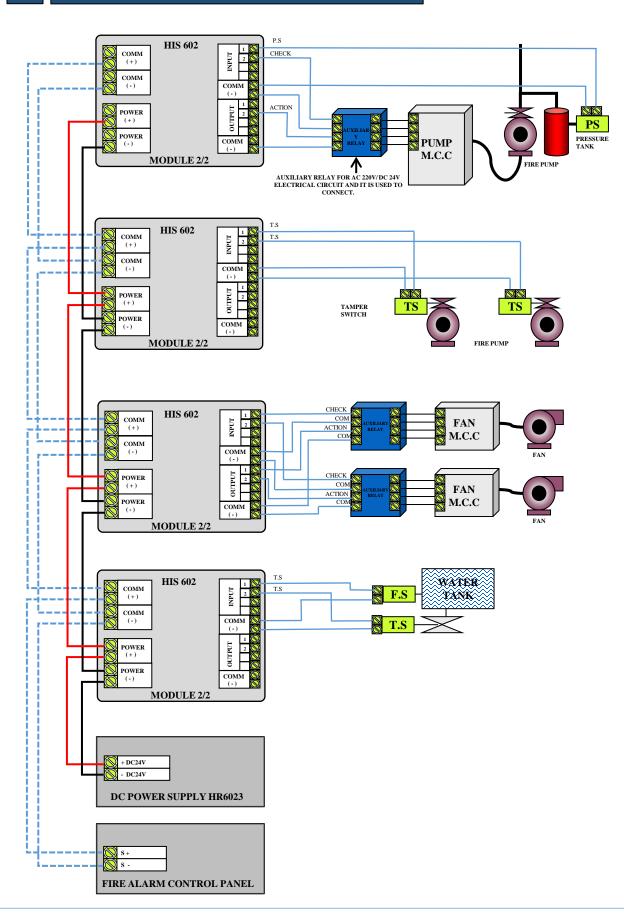
SPRINKLER PREACTION VALVE (SVP) CONTROL.

(The wiring is also changed according to the customized fire panel.)



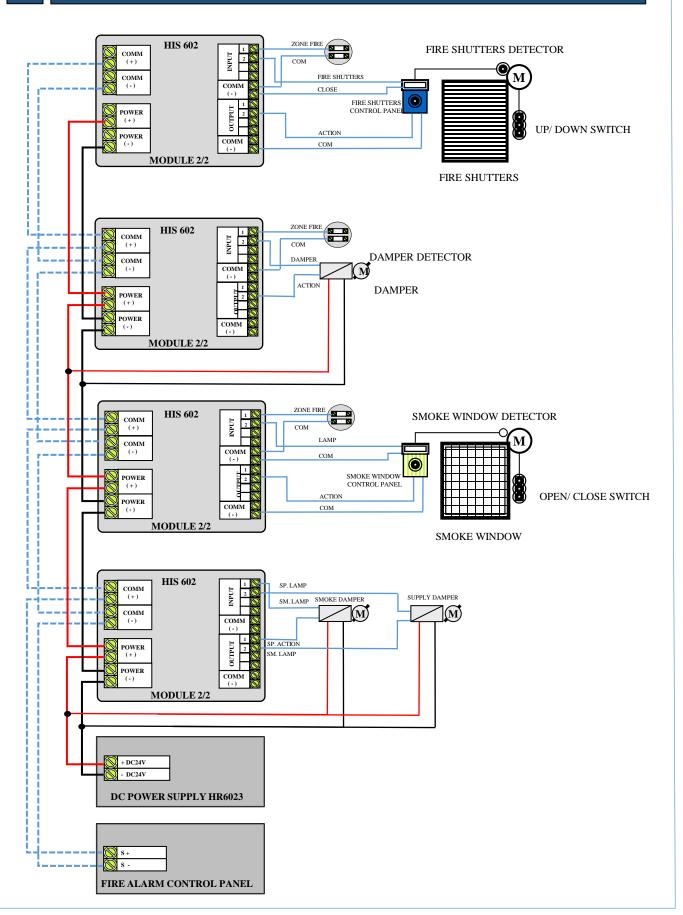
15

R – TYPE - PUMP, FAN, WATER TANK SYSTEM



16 R

R - TYPE - SMOKE WINDOW DETECTOR & FIRE SHUTTERS DETECTOR



17

R – TYPE - MODULE & ANALOG DTECTOR ADDRESS TABLE

MODULE & ANALOG DETECTOR ADDRESS TABLE

1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8 51 ON V V V V V	1 2 3 4 5 6 7 8 1 2 3 4 0 01 0N V V V V 151 0N V V V	5 6 7 8 1 2 3 4 5 6 7 8 V 201 ON V V V V
OFF , ON V	OFF V V V 52 ON V V V	OFF	OFF
OFF ON V V	53 ON V V V V	0H	V V 203 ON V V V V V
4 ON V	54 ON V V V V	04 ON V V V 154 ON V V	V V 204 ON V V V V
5 ON V V	55 ON V V V V V	0FF	V
6 ON V V	56 ON V V V	06 ON V V V V 156 ON V V	V V 206 ON V V V V V
OFF	57 ON V V V V	OFF OFF OFF	V
OFF V	OFF V V V V	0/ OFF 19/ OFF 19/ OFF	OFF V V V V V
8 OFF V V	58 OFF V V V V V	OFF OFF ON V V V V	208 OFF V V V V V V V V V V V V V V V V V V
9 OFF	59 OFF	OFF 109 OFF	V V 010 ON V V V V
10 OFF V V V V V V V V V V V V V V V V V V	60 OFF V V V V V V V V V V V V V V V V V V	OFF OFF	5 6 7 8 1 2 3 4 5 6 7 8
11 ON V V V	61 ON V V V V V	11 ON V V V V V V V 161 OFF	V V 211 ON V V V V V V V
12 ON V V	62 ON V V V V	12 ON	V V 212 ON V V V V
ON V V V	63 ON V V V V V	13 ON V V V V 163 ON V V	V V 213 ON V V V V V
14 ON V V V	64 ON V	14 ON V V V V 164 OFF	V V 214 ON V V V V V
15 ON V V V V	65 ON V V	15 ON V V I V V V 165 OFF	V V 215 OFF
16 ON V	66 ON V V	16 ON V V V V 166 ON V V	V V 216 ON V V V V
17 ON V V	67 ON V V V	ON V V V V 167 OFF	V V 217 OFF
18 ON V V	68 ON V V	18 ON V V V V V 168 ON V	V V 218 ON V V V V V
19 ON V V V	69 ON V V V	19 OFF 1 169 OFF 1 170 OFF	V V 219 OFF
20 ON V V	70 ON V V V	20 ON V V V V 170 OF V V	V V 220 OF V V V V V
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8 1 2 3 4	5 6 7 8 1 2 3 4 5 6 7 8
21 ON V V V	71 OFF	21 OFF 171 OFF	221 OFF
22 ON V V V	72 OFF V V	22 ON V V V V V 172 ON V V V OFF	V V 222 ON V V V V V V V
23 OFF V V V V	73 OFF V V V	23 ON V V V V V V V 173 ON V V V V OFF OFF	OFF ON V V V V V V V V V V V V V V V V V V
24 ON V V	74 OFF V V V	24 ON V V V V OFF OFF OFF	V V 224 ON V V V
25 OFF V V V	75 OFF V V V V	25 ON V V V V V V V 175 OFF 17	V V 225 ON V V V V V
26 OFF V V V	76 ON V V V	26 ON V V V V V V 176 ON OFF	V V V 226 ON V V V V
27 OFF V V V	77 OFF V V V V	27 ON V V V V V V V V 177 ON V OFF	V V V 227 ON V V V V V V V
28 OFF V V V	78 OFF V V V V	28 ON V 178 ON V OFF OFF	V V V 228 ON V V V V V
29 OFF V V V	79 OFF V V V V V	29 ON V 179 ON V V OFF OFF	V V V 229 ON V V V V V V V
30 ON V V V V	80 ON V V	30 ON V 180 ON V	V V 230 ON V V V V V V V V V
1 2 3 4 5 6 7 8 31 ON V V V V V	81 ON V V V V	1 2 3 4 5 6 7 8 1 2 3 4 31 ON V V 1 181 ON V V	5 6 7 8 1 2 3 4 5 6 7 8 V V V 231 ON V V V V V V V V
32 ON V	OFF V V V	OFF :	V V V 223 ON V V V V
33 ON V V	83 ON V V V V	OFF	V V V 222 ON V V V V V
OFF V V	84 ON V V V	0FF 0FF 0FF 0 0FF	V V V 234 ON V V V V V
OFF V V V V V OFF V OFF	85 ON V V V V	0FF	V V V V OFF OFF V V V V V V V V V V V V V V V V V V
36 ON V V	86 ON V V V V	36 ON V V 186 ON V V	V V V 236 ON V V V V V
OFF 0N V V V V 0FF	OFF V V V V	27 ON V V V 187 ON V V V	OFF
28 ON V V V	BB ON V V V	OFF	V V V 239 ON V V V V V V
39 ON V V V V	89 ON V V V V		V V V 239 ON V V V V V V V V
40 ON V V	OFF	40 ON V V V 190 ON V V V	
OFF 1 2 3 4 5 6 7 8	OFF 1 2 3 4 5 6 7 8	OFF OFF 1 2 3 4 5 6 7 8 1 2 3 4	5 6 7 8 1 2 3 4 5 6 7 8
41 ON V V V	91 ON V V V V V	OFF OFF	V V V 241 ON V V V V V OFF
42 ON V V V	92 ON V V V V	42 ON V V V V V 192 ON OFF	V V 242 ON V V V V V V OFF
43 ON V V V V	93 ON V V V V V	43 ON V V V V V V 193 ON V OFF	243 ON V V V V V V V V V
44 ON V V V	94 ON V V V V V	44 ON V V 194 ON V OFF	V V 244 ON V V V V V V
45 ON V V V V	95 ON V V V V V V V	45 ON V V V 195 ON V V OFF	245 ON V V V V V V V V
46 ON V V V V	96 ON V V	46 ON V V V 196 ON V OFF	V V 246 ON V V V V V V V V V
47 ON V V V V V	97 ON V V	47 ON V V V V V 197 OFF V	V V 247 ON V V V V V V V V V V
48 ON V V	98 ON V V V	48 ON V V V 198 ON V V	V V 248 ON V V V V V V
49 ON V V V	99 ON V V V V	49 ON V V V V V 199 ON V V V V OFF	V V 249 ON V V V V V V V V
50 ON V V V	100 ON V V V	50 ON V V V V 200 ON V OFF	V V 250 ON V V V V V V
		, , , , , , , , , , , , , , , , , , , 	

18

EXPLANATIONOF 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/	1 Driver	1 Driver	32 Driver
Receiver	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





BELL FIRE ALARM TEST MACHINE









FIRE PROTECTION EQUIPMENT QUALITY CHECKER



INJECTOR LEAK PRESSURE TEST MACHINE





MACHINE TO CHECK SPRAY HEAD OPERATION







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





BUTTON

BELL

DETECTOR















SYSTEM EVACUATION

EXIT LIGHT

LIGHTS

DIRECTION BOARD

















FIRE **SYSTEM**

AUTOMATIC FIRE GAS SYSTEM

FIRE PUMP

SPRINKLER FIRE EXTINGUISHER FIRE CABINETS









SOFT FIRE-PROOF BLANKET



MULTI-FUNCTIONAL DEMOLITION TOOLS FOR FIRE PROTECTION



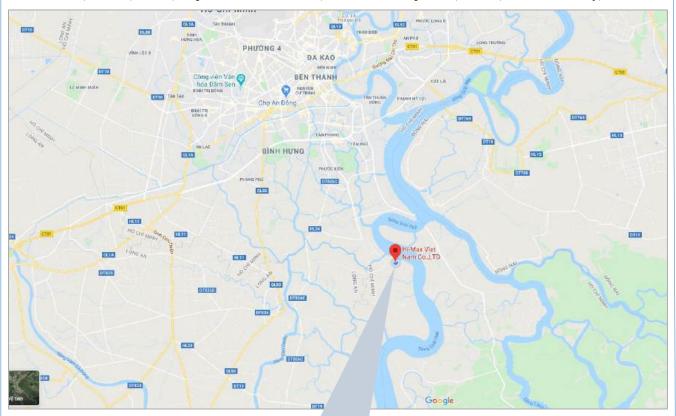
ESCAPE STAIRS

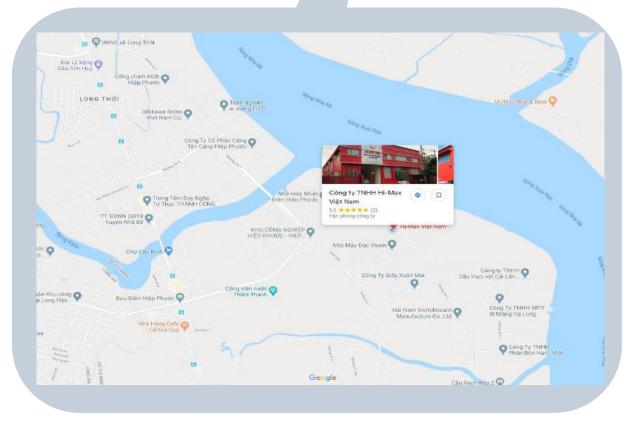


FIRE **FIGHTING SYSTEM**

MAP

Block B5f, Block B, Road 7, Hiep Phuoc Industrial Zone, Commune of Hiep Phuoc, Nha Be, Ho Chi Minh City, Vietnam.







HI-MAX VIETNAM Co., Ltd

Address: Block B5f, Block B, Road 7, Hiep Phuoc Industrial Zone, Commune of Hiep Phuoc, Nha Be, Ho

Chi Minh City, Vietnam.

Tel: 84-28-3620-4911~2 Fax: 028-3620-4913

Mobile: 0907.149.119 Email: himaxvietnam@gmail.com

Website: www.himaxvietnam.com

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