ABOUT US

Formosa Fire Alarm System Co.,Ltd.,
is a professional fire alarm system manufacturer, designer and exporter in Taiwan.

We offer high quality products including detectors, control panels, fire alarm accessories, and others parts...

Our company has been steadily growing years,and years we have accumulated lots of technical and marketting experience. We have dedicated ourselves in research and development of new products by escalating standards of technology and quality.

In addition to being the leader brand in Taiwan with well-recognized quality, we have been working on expanding our oversea markets. Our products are available in many countries in America, Europe, Asia and Africa.

It is the ultimate goal of our company to put our products in every major market of the world. Our philosophy is to take care of all the customers' needs and people's safety.

CONTENTS

ADDRESSABLE FIRE ALARM CONTROL PANEL (FMS-R)

General

The FMS-R addressable fire alarm control panel contains 1 to 8 SLC loops with each loop supporting 300 devices of any combination (sensors or modules). Communication between devices is transferred throught standard cable, no shielded or twisted pair required.
The panel can be easily configured conventional detection system, such as heat, photo and ion sensor, call point, alarm bell, ect. by using FR-REP monitoring/control module. In addition, a RS-485 bus provides communication to the panel network, while the RS-232 interface allows the convenience of programming via a PC.

Features

➢ DCP protocol for fast and robust communication
➢ One, expandable to eight, Signaling Line Circuit (SLC) loop
➢ Support Class B(style 4) and Class A(style 6 or 7) SLC loop
➢ 8 amp power supply with 8 on board Class B NAC circuits
➢ Use standard cable, no shielded or twisted pair required on SLC loop
➢ Up to 300 sensors and modules per loop
➢ Communication distance between devices can achieve 1.2 km by using AWG 14 wire
➢ Large 15-lines x 40-character LCD

➢ Self-inspection function to assist sam one address issue within several devices
➢ Fire drill test and walk test function
➢ A RS-485 bus for panel network
➢ 2 built-in RS-232 interfaces for programming via a PC and serial printer interface
➢ History log can achieve 3000 events

Specifications

Model	FMS-R
Capacity	1~8 loop, up to 300 sensors and modules per loop
Input power	AC 220V , 50 Hz
Battery power	DC 24V 4Ah at least
Resistance of cable	Resistance of signaling wire <20Ω; insulation resistance >2MΩ@500V
Alarm delay time	0 ~ 40 seconds
Operating temp / humidity	0^OC ~ 50^OC , relative humidity < 95% RH, non-condensing
Material of case	Steel , 1.2mm thickness
Dimension	1~4 loops : 500 x 600 x 150 ; 5~8 loops : 500 x 1000 x 150 (W x H x D , mm)
Optional	Thermal printer, Custom graphics, Voice evacuation, Remote annunciator
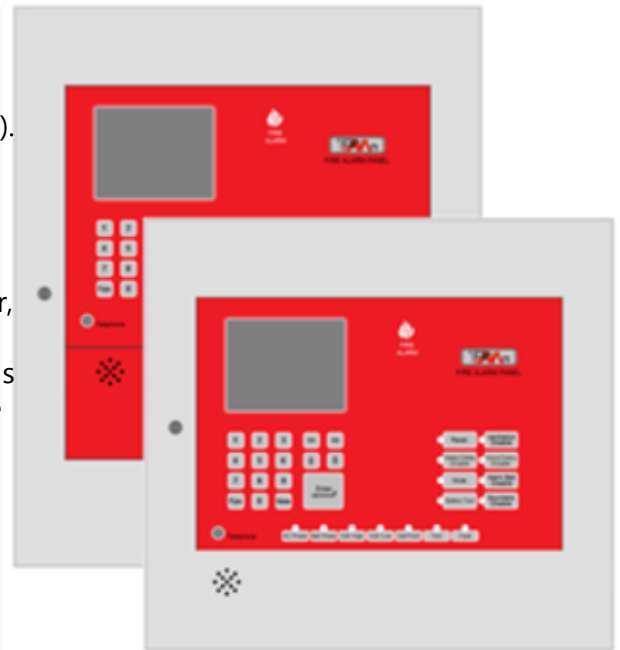
MONITORING/CONTROL MODULE (FMS-REP)

General

The FMS-REP monitoring/control module is designed to interface and monitor two-wire convertional detectors or call point, and provide flexible & quick response to emergency conditions. The monitoring function can supervises the power supply as well as entire zone of devices, status conditions are reported as normal, open and alarm. The control function allow two Form C contacts for a variety of normally open and normally close contact applications such as fan operation, door closure, elevator recall and auxillary control. Up to 300 module can be placed on a single SCL loop, and the module address is easily to set by DIP switch.

Features

- ➤ DCP protocol for fast and robust communication
- ➤ Use standard cable, no shielded or twisted pair required on SLC loop
- ➤ Up to 300 devices can be used on per loop
- ➤ One input contact monitor, provides up to 25 conventional smoke detectors
- ➤ Two Form C contact, one is dry contact, the other is rated 2A@ 30VDC
- ➤ Address is easily to set by DIP switch
- ➤ End of line (EOL) device is 10k ohm resistor

Specifications

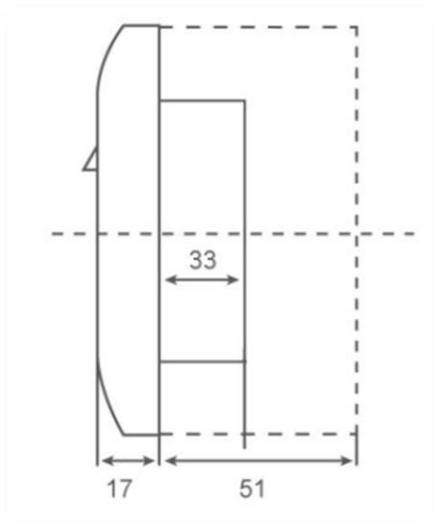| Model	FMS-REP
Operating Voltage	DC 18V ~ 30V
Monitor current	1.5 mA (typical) @ DC24V
Alarm current	12 mA (maximum) @DC24V
LED indications	Normal: flash one time per 6 seconds; Alarm: always on; Failure: flash two time per 6 seconds
EOL resistor	10 KΩ ¼ W
Operating temperature	$0^O C \sim 50^O C$
Relative humidity	< 95% RH, non-condensing
Dimension	60x76x32 (WxHxD, mm)

ADDRESSABLE MANUAL CALL POINT (FMS-CP1-R)

General

The FMS-CP1-R addressable manual call point connect to addressable fire alarm control panel. Up to 256 devices can be connected to each loop of FAS-R fire alarm control panel. The device has an integral alarm indicator that illuminate when the manual call point has been pushed down.

Features

➢ DCP protocol for fast and robust communication
➢ Use standard cable, no shielded or twisted pair required on SLC loop
➢ Up to 256 devices can be used on per loop
➢ LED indicators can show normal - alarm - fairlure status
➢ Self-restoring ensures the elements repeated use
➢ With emergence telephone jack
➢ Address is easily to set by DIP switch

Specifications

| Model	FMS-CP1-R
Operating Voltage	DC 18V ~ 30V
Quiescent current	≤ 0,5 mA
Alarm current	18 mA (maximum) @ DC24V
LED indications	Normal: flash one time per 6 seconds; Alarm: always on; Failure: flash two time per 6 seconds
Operating temperature	-10°C ~ 50°C
Relative humidity	< 95% RH, non-condensing
Material / Color	Fire-proof plastic / White
Dimension	Φ 140 x 50mm

ADDRESSABLE SMOKE DETECTOR (FMS-32L-R)

General

The FMS-32L-R addressable smoke detector are microprocessor controlled addressable detector suitable for connection to the FAS-R addressable fire alarm control panel. Up to 256 detectors can be connected to each loop. Advanced electronics in conjunction with a photoelectronic smoke sensing chamber provides early detection of smoke and high immunity against unwanted alarms.

Features

➢ DCP protocol for fast and robust communication
➢ Use standard cable, no shielded or twisted pair required on SLC loop
➢ Up to 256 devices can be used on per loop
➢ Dual LED indicators can show normal - alarm - fairlure status
➢ No harm to man and beast as no radiation source is used
➢ With net of holes' diameter 0.5 mm, preventing from flying insects and particles but no barrier to smoke inflow
➢ Address is easily to set by DIP switch
➢ Magnet-initiated alarm test function
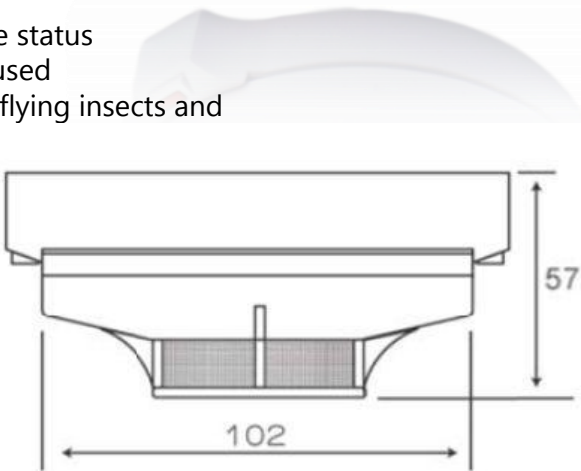
Specifications

| Model	FMS-32L-R
Operating Voltage	DC 18V ~ 30V
Quiescent current	≤ 0,5 mA
Alarm current	18 mA (maximum) @ DC24V
Alarm response threshold	15% during 30 seconds
LED indications	Normal: flash one time per 6 seconds; Alarm: always on; Failure: flash two time per 6 seconds
Operating temperature	-10°C ~ 50°C
Relative humidity	< 95% RH, non-condensing
Material / Color	Fire-proof plastic / White
Dimension	Φ 102 x 57 mm

ADDRESSABLE ROR HEAT DETECTOR (FMS-ROR-R)

General

The FMS-ROR-R addressable rate of rise heat detector are microprocessor controlled addressable detector suitable for connection to the FAS-R addressable fire alarm control panel. Up to 256 detectors can be connected to each loop. The mechanical operating principles of device ensure the Long-term durability and the leats malfunction

Features

➢ DCP protocol for fast and robust communication
➢ Use standard cable, no shielded or twisted pair required on SLC loop
➢ Up to 256 devices can be used on per loop
➢ Dual LED indicators can show normal - alarm - fairlure status
➢ Self-restoring ensures the elements repeated use
➢ The sensitive part is enclosed to prevent being Moistened and contaminated
➢ Address is easily to set by DIP switch
➢ Magnet-initiated alarm test function
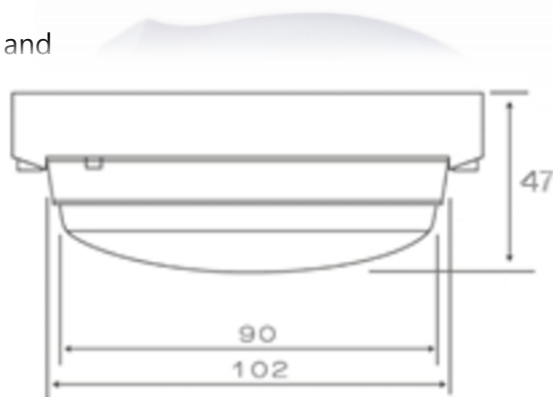
Specifications

Model	FMS-ROR-R
Operating Voltage	DC 18V ~ 30V
Quiescent current	≤ 0,5 mA
Alarm current	18 mA (maximum) @ DC24V
Alarm temperature	Rise up 30°C during 30 seconds
LED indications	Normal: flash one time per 6 seconds; Alarm: always on; Failure: flash two time per 6 seconds
Operating temperature	-10°C ~ 50°C
Relative humidity	< 95% RH, non-condensing
Material / Color	Fire-proof plastic / White
Dimension	Φ 102 x 53 mm

ADDRESSABLE HEAT DETECTOR (FMS-FT-R)

General

The FMS-FT-R addressable heat detector are microprocessor
controlled addressable detector suitable for connection to the
FAS-R addressable fire alarm control panel. Up to 256
detectors can be connected to each loop.
The sensitive part of device is enclosed to prevent being
moistened and contaminated

Features

➢ DCP protocol for fast and robust communication
➢ Use standard cable, no shielded or twisted pair required on SLC loop
➢ Up to 256 devices can be used on per loop
➢ Dual LED indicators can show normal - alarm - fairlure status
➢ Self-restoring ensures the elements repeated use
➢ Pure silver contacts ensure the quick response
➢ Address is easily to set by DIP switch
➢ Magnet-initiated alarm test function
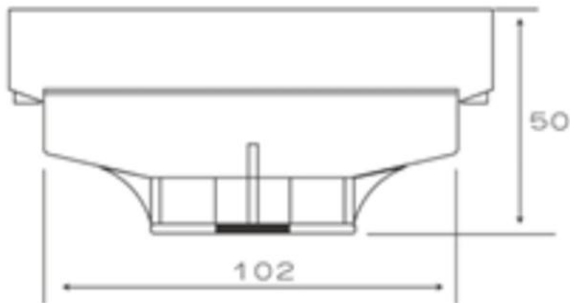
Specifications

Model	FMS-FT-R
Operating Voltage	DC 18V ~ 30V
Quiescent current	≤ 0,5 mA
Alarm current	18 mA (maximum) @ DC24V
Alarm temperature	70°C
LED indications	Normal: flash one time per 6 seconds; Alarm: always on; Failure: flash two time per 6 seconds
Operating temperature	-10°C ~ 50°C
Relative humidity	< 95% RH, non-condensing
Material / Color	Fire-proof plastic / White
Dimension	Φ 102 x 54 mm

FIRE ALARM CONTROL PANEL
(CONVENTIONAL)

FMS-P4-4-ABS

FMS-P4-8-ABS

Type	Conventional type	Spare Battery	24 VDC
Model	FMS-P4-4-ABS, FMS-P4-8-ABS (380 x 270 x 80 mm)	End of Line Resistance	5.1 kΩ
Zone	4 , 8	Max.Amount of Smoke detector	20 pcs/Zone
Input Voltage	220 VAC/50Hz	Alarm Verifying Time	7 seconds
Operation Voltage	24 VDC	Exterior Resistance	Round-trip under 56Ω

Mains Supply	220V AC 50/60 Hz
Spare Power (battery)	24V DC
Charging Voltage protection	Glass Fuse
Sounder Output	24v DC(End of Line Resistance 10kΩ) Max.Output Current: 15mA amout
Amout of Smoke Detectors	Max.Amout of Connection: 20pcs/Zone
Auxiliary Contacts	Null-Voltage Contact(24V DC,1A max.NO/NC
Main Supply Protection	Glass Fuse
Sounder Protection	Glass Fuse
Spare Power(Battery) Protection	Glass Fuse
Zone End of Line Resistance	5.1 kΩ

Circuit Connection Diagram
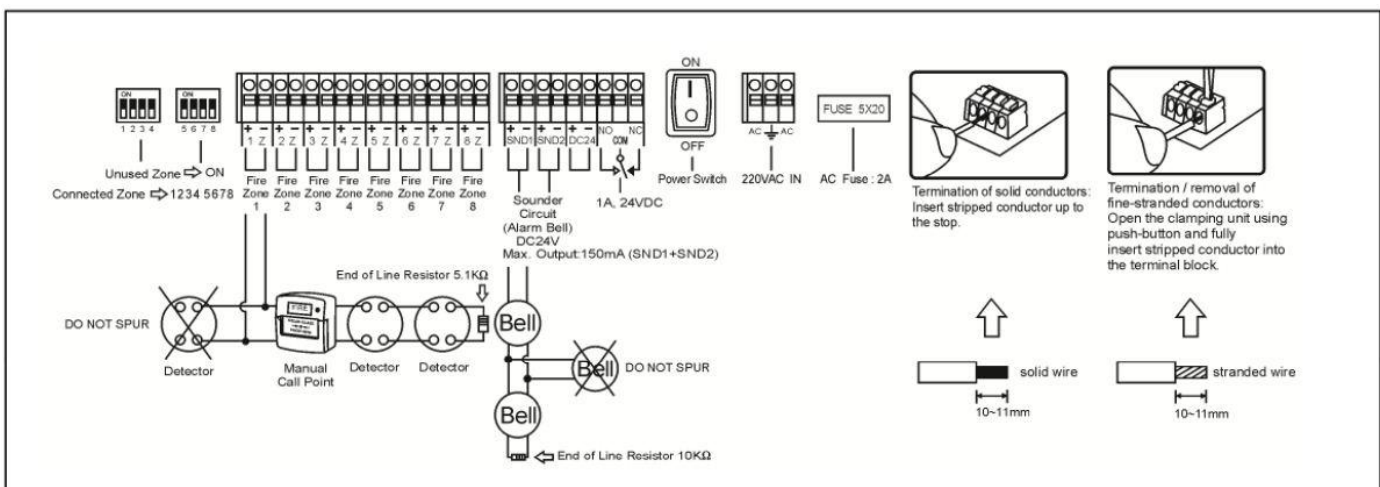
Sounder Circuit

1. Two external sounder output circuit are provided
2. Amount of two sounder outputs is 150 mA
3. Each sounder circuit is protected by fuse 1A
4. Each sounder circuit should be with End of Line Resistance 10KΩ
   to check if open circuit or short circuit
5. Press EVACUTE button can re-sound the external alarm (bell,buzzer)
6. Press the SILENCE button to mute the external sounder alarm
   (bell,buzzer)

Fuse Illustration

Fault Mode

1. **Detector Fault** (Detector Base loosened or without end of line
   resistance 5.1 KΩ)
2. **Zone Wiring Fault** (Open circuit or short circuit)
3. **AC Power Fault**
4. **Spare Power (battery) Fault** (confirm the fuse)
5. **Alarm Bell Output Wiring Fault** (open circuit or short circuit or
   without end
   of line resistance 10KΩ)

Zone And Display

Each Zone is represented by three LED, one Red and two Orange color
☐ **FIRE (Red LED):** Fire Alarm Signal
☐ **O/C Fault (Orange LED):** Open circuit
☐ **S/C Fault (Orange LED):** Short circuit
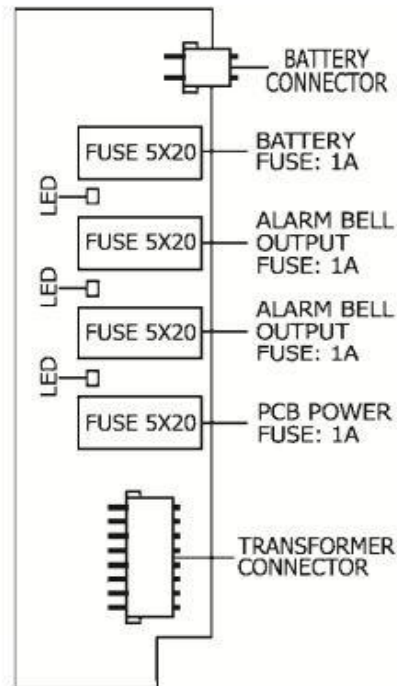
FIRE ALARM CONTROL PANEL
(CONVENTIONAL)

MODEL : **FMS-P6- 5LA**
FMS-P6-10LA

Specifications

Model	FMS-P6-5LA	FMS-P6-10LA
Size (L x H x W) (mm)	270 x 380 x 80	
Total Zone	5 Zones	10 Zones
Input Power	220V AC 50/60 Hz	
Aux.Power(Spare Battery)	DC 24V 300mAH(NI-Cd Battery)	DC 24V 600mAH(NI-Cd Battery)
Charging Voltage,Current	DC 29V 60mA	
Zone Voltage, Current	Normal:DC24V,Short-Circuit:5V,Under 32mA	
Exterior Resistance	Round-trip under 50Ω	
Amout of Smoke Detectors	Max.Amout of Connection: 20pcs/Zone	
Amout of Heat Dectectors	No Limit(Except Electronic Type)	
End of Line Resistance	10 kΩ	
Output Current for Indicating Lamp	Max.Output Current:120mA	Max.Output Current:240mA
Output Current for Alarm Bell	Max.Output Current:120mA	Max.Output Current:240mA
Case Material	ABS resin with non-flammability	
Auxiliary Contact	1 Null-Voltage Contact (N/O,250VAC,7A)	

FIRE ALARM CONTROL PANEL
(CONVENTIONAL)

MODEL : **FMS-P5- 5L**
FMS-P5-10L

The panel system is microcomputer designed for fire alarm, smoke exaust, water sprinkle, fire-fighting foam control.

All PCB are based on modules and stable, easy replace and maintain. Auto test function makes it easy to check and control.

Function

1. **Alarm Verification** double check the fire alarm signal to avoid false alarm
2. **Batterry self-protect** Batterry is running lower 18 VDC, it will stop discharging
3. **Indication LED** Different color light to indicate different condition
4. **Zone auto test and manual test** Test zone from 1 to the last automatically or set a certian zone manual test
5. **Annunciator panel is available**

5~15 zone
300x410x107 mm
(W)   (H)   (D)

20~30 zone
370x510x150 mm
(W)   (H)   (D)

35~60 zone
480x720x200 mm
(W)   (H)   (D)

VOLTAGE METER

FIRE ALARM

PHONE JACK

AC POWER NORMAL
BATTERY POWER IN USE
SWITCH NOT NORMAL SET
ALARM VERIFYING
OPEN CIRCUIT
MANUAL CALL POINT START
PHONE CALL START
FIRE PUMP LACK WATER
FIRE-FIGHTING FOAM LACK WATER
FIRE PUMP START

LOOP

TENS   ONES

LOOP TEST SWITCH

| OFF | AUTO TEST | OPEN CIRCUIT TEST | BATTERY TEST |
| ON | MANUAL TEST | FIRE ALARM TEST | TEST |

MAIN SOUND	ABNORMAL SOUND	EXTERNAL ALARM BELL	KEEP SIGNAL	ALARM VERIFICATION	SYNCHRONOUS TRANSFER	RESET
ON	ON	ON	KEEP	ON	ON	
MUTE	MUTE	MUTE	AUTO RESET	OFF	OFF	RESET

Sound Control Switch

· MAIN SOUND	ON → MUTE
· ABNORMAL SOUND	Abnormal condition like open circuit, fire pump lack water, fire pump start.
· EXTERNAL ALARM BELL	ON → MUTE

Function Switch

· KEEP SIGNAL	Keep the signal continuously.
· ALARM VERIFICATION	When receiving a fire alarm signal, panel will wait for 5~8 seconds to verify.
· SYNCHRONOUS TRANSFER	With 1 set of null- voltage contact (N/O) to transmit fire alarm synchronously.
· RESET	Cancel all signals. (switch rebound automatically)

Loop Test Switch

· AUTO TEST	Test loop from zone 1 to the last automatically.
· MANUAL TEST	Test certain loop manually by setting ONES and TENS.

Battery Switch

Type	Conventional type	Spare Battery	24 VDC
Model	FMS-P5-5L...FMS-P5-100L	End of Line Resistance	10 kΩ
Zone	5 – 100+	Max.Amount of Smoke detector	20 pcs/Zone
Input Voltage	220 VAC/50Hz	Alarm Verifying Time	7 seconds
Operation Voltage	24 VDC	Exterior Resistance	Round-trip under 56Ω

35~60 zone

20~30 zone

5~15 zone

300x410x107 mm
(W) (H) (D)

370x510x150 mm
(W) (H) (D)

480x720x200 mm
(W) (H) (D)

5 ~ 15 zones	20 ~ 30 zones	35 ~ 65 zones	65 ~ 95 zones	95 ~ 100 zones
300 (W)	370 (L)	480 (L)	480 (L)	480 (L)
410 (H)	510 (H)	720 (H)	850 (H)	1000 (H)
107 (D)	150 (W)	200 (W)	200 (W)	220 (W)
mm	mm	mm	mm	mm

FIRE ALARM BELL (FMS-624B)

Features

✳ UL Approved
✳ High dBA Sound Output
✳ Low Power Consumption
✳ Available in 6'' ,8'' , 10'' Housing
✳ Quickly and Easily Installed

Installtion Note

✳ Remove bell gong by loosening hex bolt.
✳ Wire bell in circuit (Notice Polarity).
✳ Mount bell mechanism on 4'' square standard outlet box with the striker facing down.
✳ Replace the gong and tighten hex bolt.
✳ The bell must be mounted a minimum of 8ft above the floor, or as close to the ceiling as possible.
✳ Polarized bell provides Red(+) and Black(-) lead wires. When you install the bell, must observe the polarity**.**

Specification For 6",8",10"

Model	FMS-624B	FMS-824B	FMS-1024B
Gong Size	6 inch	8 inch	10 inch
Voltage	24V DC	24V DC	24V DC
Current	20 mA	20 mA	20 mA
Sound Level	95 dB at 10ft	83 dB at 10ft	85 dB at 10ft
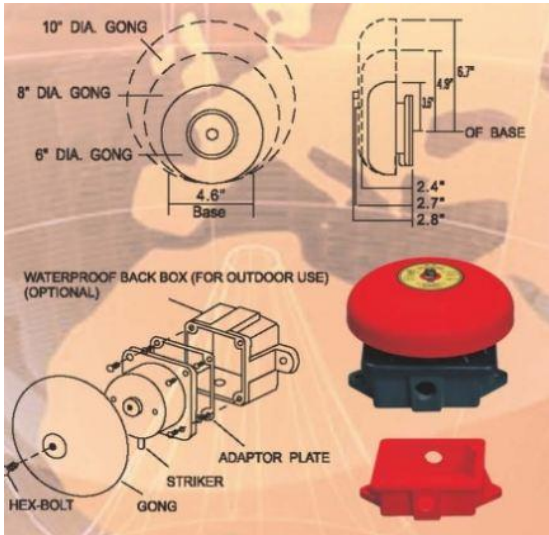
FIRE ALARM BELL

FW-4B

FW-6B

Advantages

� The way of motor-driven is taken at the low consumption of current to reduce the load for power output
 from receiver terminal
✱ This design of exceptional structure is study and durable. The bell even can ring to last 40 hours without
 decline of the performance and structure

Order Infomation

FW-4B	Φ4″ : 24V DC	FW-6B	Φ6″ : 24V DC
FW-412B	Φ4″ : 12V DC	FW-612B	Φ6″ : 12V DC

Specification

| MODEL NO.	FW-4B	FW-412B	FW-6B	FW-612B
VOLTAGE RANGE	24V DC	12V DC	24V DC	12V DC
ALARM CURENT	38 mA	55 mA	30 mA	55 mA
MOVEMENT	Motor			
MATERIAL	1.8 mm Steel Sheet		3.0 Alloy Alu	
DIMENSIONS	Φ4″ (102mm)		Φ6″ (150mm)	
WEIGHT	340g		418g	
SOUND OUTPUT	95 – 100 dB/M			
COLOR	Red			

FIRE MANUAL CALL POINT (FMC-FP1)

Advantages

✱ Auto-Return by pushing button, no need to disassemble the main
 body
✱ Response light avallable to indentify the operation complete

✱ Reinforced transparent protective cover is reusable

Order Information

| FMC-FP1 | Fire Manual Call Point |
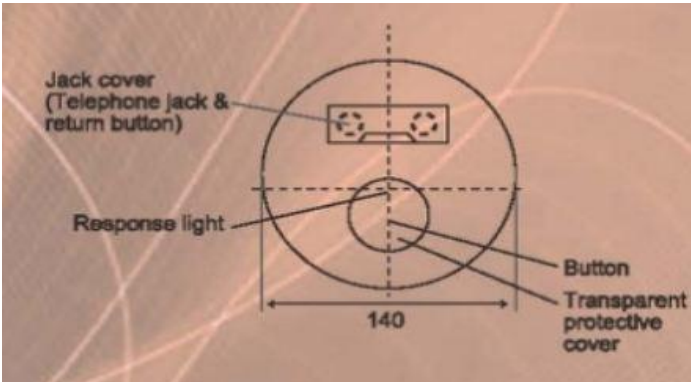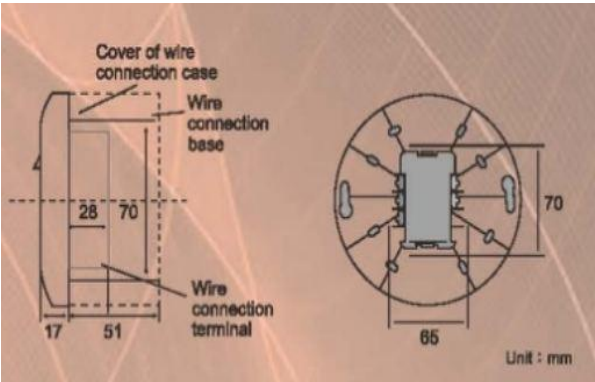
Specification

| MODEL NO.1	FMC-FP1
POWER SOURCE	24V DC
ALARM CURRENT	30 mA
CONTACT RATING	24V DC 100 mA
SUB-FUNCTION	Phone jack: Confirmation Led: Reset button
OPTION	Base
MATERIAL	Fire-Proof plastics
WEIGHT	150g
DIMENSIONS	Φ 140(mm)
COLOR	Red

FIRE ALARM CALL POINT (FM-FP1)

General

The casings are moulded from specially selected engineering plastic with outstanding features of high impact strength, high resistance to heat and has good electrical properties. All metal are of brass and phosphor bronze which ensure life long resistance against corrosion and a high realibility micro switch.

Description

This model which is suitable for open or close circuit system is professionally designed for use in fire detection systems with central control equipment. Alternative terminals are provided for open or close circuit. When wired for open circuit working the circuit close instanlly the glass is mashed. Facilities are provided for ¾" conduit entries from top or bottom. The base box is provided with fixing holes for surface wiring.
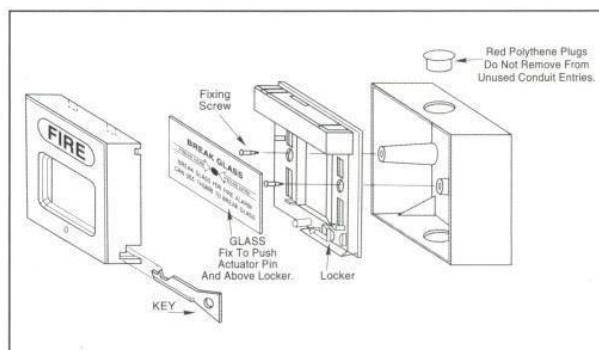
Advantages

The attractive features of the design include:

    1. Double terminal wire connectors for independent input and output connectors which facilitate installations when used in looping.

    2. The glass panel has a specified breaking point   ensuring that the circuits close instantly and safety when the glass is broken.

    3. The test key for regular inspection of the manual call point is included in the package.

Specification

MODEL   : FM-FP1
SIZE   : 86mm x 86mm x 52mm
CURRENT RATINGS: 12/24 VDC 10A
                                 48 VDC 3A
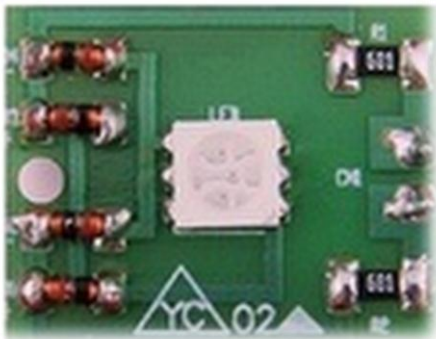   250 VAC 10A

FIRE INDICATION LAPM (FM-FL3)

Advantages

FM-FL3

✳ Plug-in type of termination for ease of installation.

✳ Highly visible

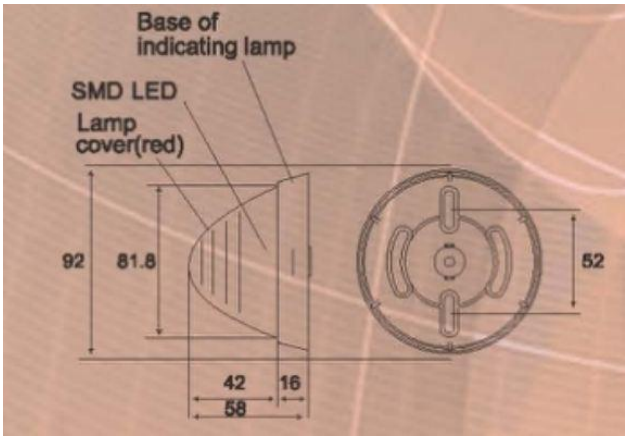✳ SMD Led give high brightness while it has lower power consumption

Lamp Accessories

Order Infomation

| FM-FL3 | Fire Indicating Lamp with SMD LED |

Specification

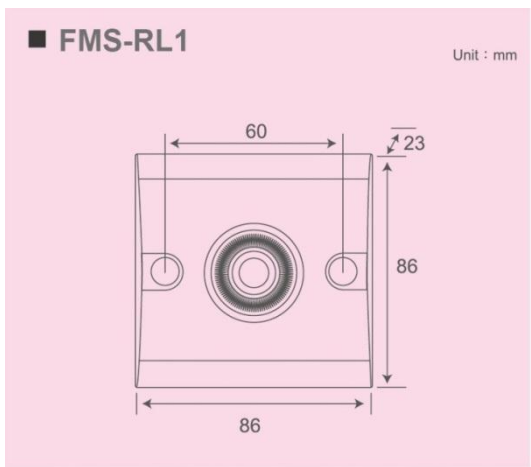| MODEL NO.1	FM-FL3
POWER SOURCE	24V DC
ALARM CURRENT	12 mA
AMBIENTEMP	~ 10°C ~ 55°C
MATERIAL	Fire-Proof plastics
WEIGHT	52g
DIMENSIONS	Φ 92x58(H) mm
COLOR	Red

REMOTE INDICATION LAPM (FMS-RL1)

Advantages

FMS-RL1

✱ This unit is designed to ensure the alarm signal can be actually transmitted to all location.

✱ To prevent any missing signal specially for the close room.

Order Infomation

Specification

MODEL NO.1	FMS-RL1
POWER SOURCE	Power Source from Detector Base
ALARM CURRENT	12 mA
AMBIENTEMP	$\sim 10^{O}C \sim 55^{O}C$
MATERIAL	Fire-Proof plastics
WEIGHT	28g
DIMENSIONS	86(L) x 86(W) x 60(H) mm
COLOR	White

PHOTOELECTRIC TYPE SMOKE DETECTOR WITH DUO-LEDS (FMS-WT33L)

Advantages

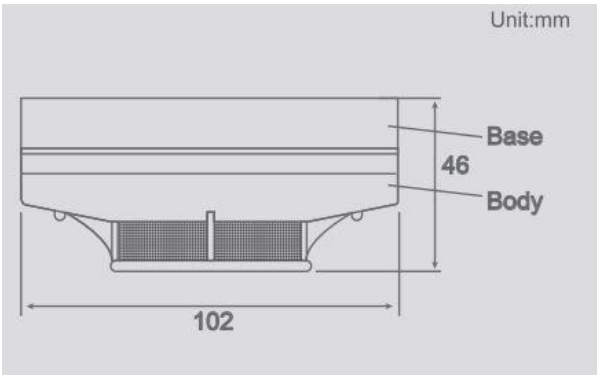� Dual LEDs for 360-degree visibility. Bi-color LEDs, stand-by status :
   Green; Alarm status : Red

✱ Detector has passed EMC test, which greatly eliminates false alarms
   caused by interference from nearby sources

✱ With the photoelectric sensing principle, this kind of detector is active
   more quickly, accurately and reliably, and there are no false alarm due to
   chemicals, exhaust gas, wind and exterior light

Dimensions

Effective Alert Area

HEIGHT/CONSTRUCTION	UNDER 4 M	4M ~ 8M
AREA COVER	150 M^2	75 M^2

Specification

MODEL NO.	FMS-WT33L	SENSITIVITY SETTING	Comply to EN54, CNS
TYPE	2-wire	AMBIENT TEMP.	-10°C ~ 55°C
VOLTAGE RANGE	12V ~ 30V DC	AMBIENT HUMIDITY	0 ~ 95%
ALARM CURRENT	24V DC 40 mA	MATERIAL	Fire-Proof plastics
		DIMENSIONS	102(Dia.) x 46(H) mm
STANBY CURRENT	24V DC / 25 µA Below	WEIGHT	131g
POLARIZATION	Non-polarized	COLOR	White

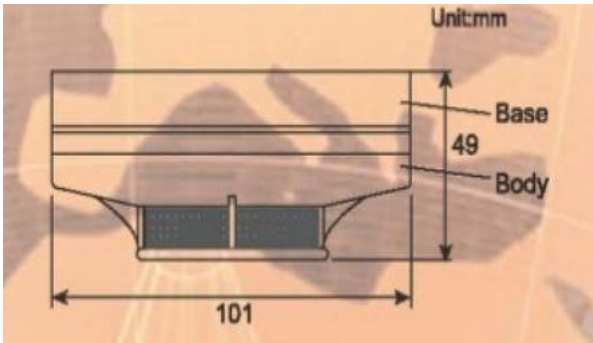# PHOTOELECTRIC TYPE SMOKE   DETECTOR WITH DUO-LEDS (FMD-WT32L)

Advantages

✱ With the photoelectric sensing principle, this kind of detector is actived
  more quickly, accurately and reliably, and there are
  no false alarm due to chemicals, exhaust gas, wind and exterior light

✱ Detector has passed EMC test, which greatly eliminates false alarms caused by interference from nearby sources

✱ Duo-LEDs display separately; Standby status: Green; Alarm Status: Red

Effective Alert Area

HEIGHT/CONSTRUCTION	UNDER 4 M	4M ~ 8M
AREA COVER	150 M^2	75 M^2

Dimensions

Specification

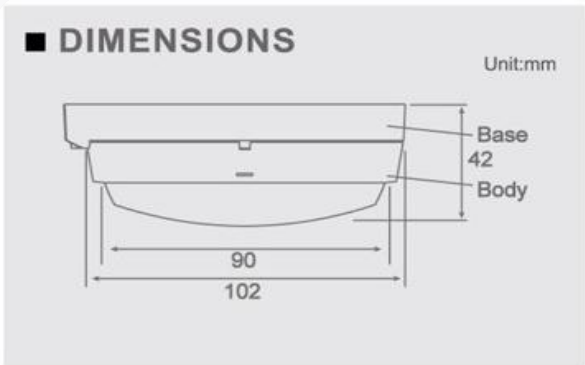| MODEL NO.	FMS-WT33L	SENSITIVITY SETTING	Comply to EN54, CNS
TYPE	2-wire	AMBIENT TEMP.	-10°C ~ 55°C
VOLTAGE RANGE	12V ~ 30V DC	AMBIENT HUMIDITY	0 ~ 95%
ALARM CURRENT	24V DC 40 mA	MATERIAL	Fire-Proof plastics
		DIMENSIONS	102(Dia.) x 46(H) mm
STANBY CURRENT	24V DC / 25 µA Below	WEIGHT	131g
POLARIZATION	Non-polarized	COLOR	White

RATE OF RISE HEAT DETECTOR (FMD-WS19L)

Advantages

✳ Mechanical operating principles ensure the long-term durability
   and the least malfunction

✳ Self-restoring function ensures the elements repeatedly use

✳ The exhaust valve of R.O.R Heat Detector part uses optical fiber
   glass capillary tube that's heat-resistant and moisture-proof to avoid
   false alarms

Effective Alert Area

HEIGHT/CONSTRUCTION	UNDER 4 M	4M ~ 8M
Fire-Proof Building	70 M^2	35 M^2
Ordinary Buiding	40 M^2	25 M^2

■ DIMENSIONS   Unit:mm

Base 42
Body
90
102

Specification

MODEL NO.	FMD-WS19L			SENSITIVITY SETTING	Comply to EN54, CNS
TYPE	2-wire	3-wire	4-wire	AMBIENT TEMP.	-10°C ~ 55°C
VOLTAGE RANGE	12V ~ 30V DC			AMBIENT HUMIDITY	0 ~ 95%
ALARM CURENT	24V DC 30mA			MATERIAL	Fire-Proof plastics
				DIMENSIONS	102(Dia.) x 42(H) mm
CONTACT RATING	N/A		1A@30V DC	WEIGHT	130g
POLARIZATION	Non-polarized	Polarized	Non-polarized	COLOR	White

# FIXED TEMPERATURE HEAT DETECTOR (FMD-WK100L)

Advantages

✱ Stabilized performance, long-term durability and least-malfunction are ensured by employing a UL approved sensor

✱ The sensitive part is enclosed to prevent from being moistened and contaminated

✱ Self-restoring function ensures the elements repeatedly use

Effective Alert Area

HEIGHT/CONSTRUCTION	UNDER 4 M	4M ~ 8M
Fire-Proof Building	60 M^2	30 M^2
Ordinary Buiding	30 M^2	15 M^2

Dimensions

Unit:mm
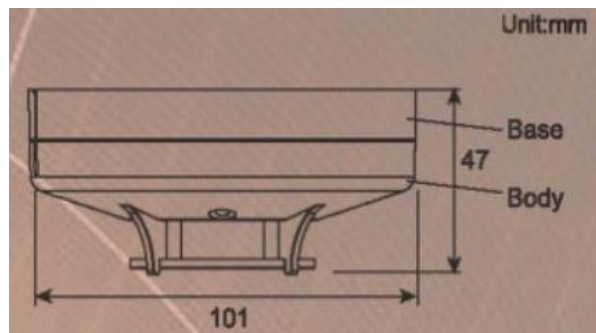
Specification

| MODEL NO.	FMD-WK100L	AMBIENT TEMP.	-10°C ~ 55°C
TYPE	2-wire	AMBIENT HUMIDITY	0 ~ 95%
VOLTAGE RANGE	12V ~ 30V DC	MATERIAL	Fire-Proof plastics
ALARM CURRENT	24V DC 30 mA	DIMENSIONS	102(Dia.) x 46(H) mm
POLARIZATION	Non-polarized	WEIGHT	106g
SENSITIVITY SETTING	Comply to EN54, CNS	COLOR	White

OPTICAL SMOKE DETECTOR (FMS-136)
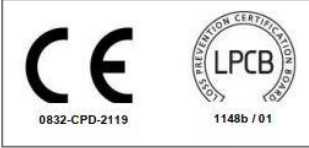
Advantages

✱ Wide operating voltage for Fire Alarm Systems

✱ Error free non-polarized zone input termination

✱ Twin colour LED Indicator, with 'Green' (blinking) for Normal Operation, and 'Red' for Alarm Status

✱ Terminals for Remote Alarm Led provided

✱ Error free non-polarized zone input termination

✱ The products are manufactured under strict ISO 9001 Quality Managerment System

Dimensions

55mm / 47.5mm / 7.5mm

Ø100 mm

Smoke Detector

LED + / LED -

3.4   5.6
1.2   7.8
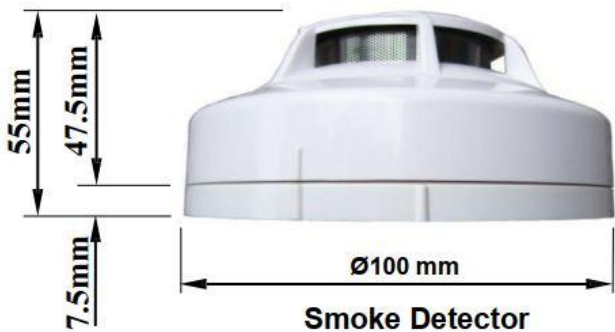
Specification

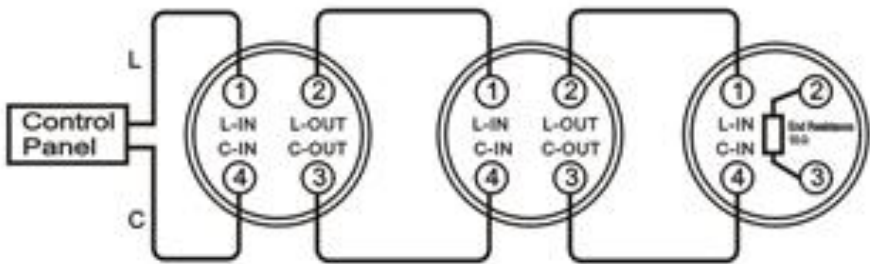| MODEL NO.	FMS-136	SENSITIVITY SETTING	Comply to EN54
TYPE	2-wire	AMBIENT TEMP.	$-10^{O}C \sim 50^{O}C$
VOLTAGE RANGE	9,6V ~ 30V DC	AMBIENT HUMIDITY	0 ~ 95%
ALARM CURRENT	24V DC 20 mA	MATERIAL	Fire-Proof plastics
		DIMENSIONS	100(Dia.) x 55(H) mm
STANBY CURRENT	24V DC / 65µA Below	WEIGHT	102g
POLARIZATION	Non-polarized	COLOR	White

OPTICAL SMOKE DETECTOR (FMD-206E)

Features

✱ With dual LED, easy to observe state of detector

✱ The dual LED flash once every 4~6 seconds in peacetime to show if the detector work normally.

✱ The dual LED light up constantly when the detector alarm.

General Wiring Drawing

Specification

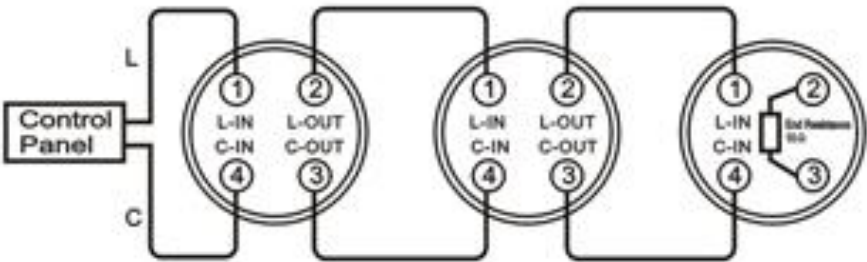| Model No.	FMD-206E	Overall structure	
Rated voltage	24VDC System from Panel	Material	Fire-resisting ABS material
Stanby current	90μA	Joint contact	Copper (zinc-plated)
Alarm current	60 mA	Notes Prohibit from being installed at the places with large volume of smoke and steam lingering, and the inlet and outlet of cold and warm air.	
Working temperature	-15°C ~ 50°C		
Working humidity	0 ~ 95% RH		
Size	103 mm x 43 mm		
Weight	150g		

RATE OF RISE HEAT DETECTOR (FMD-306E)

Features

✱ With dual LED, easy to observe state of detector.

✱ With large metal surface to expose the air to sense the temperature.

✱ Easy install and repalce.

General Wiring Drawing

Specification

Model No.	FMD-306E	Overall structure	
Rated voltage	DC 12V – 30V (24V)	Material	Fire-resisting ABS material
Stanby current	0µA	Joint contact	Copper (zinc-plated)
Alarm current	60 mA		
Working temperature	-15°C ~ 50°C		
Working humidity	0 ~ 95% RH		
Size	103 mm x 43 mm		
Weight	150g		

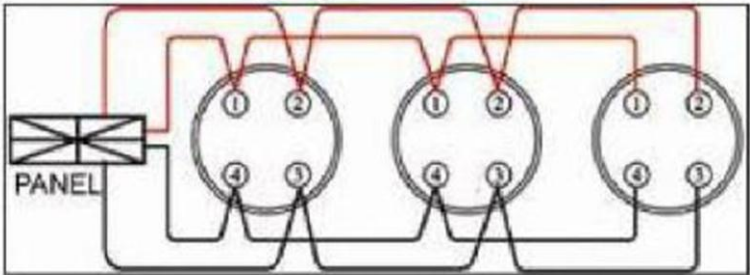# PHOTOELECTRIC TYPE SMOKE DETECTOR(12V) FMD-603

Advantages

✱ There are two LEDs which can turn 360° and watch the situation of the detector at any angle

✱ Joint functioning way : NO type and NC type

✱ The use of common base is advantageous to exchange of detector

Effective Alert Area

HEIGHT/CONSTRUCTION	UNDER 4 M	4M ~ 8M
AREA COVER	150 M^2	75 M^2

General Wiring Drawing

The red wire is the power source (DC-12V)
The black wire is the signal source.
For point 3 and point 4, the NO type appears to be open all the time, and the NC type appears to be close all the time.

Specification

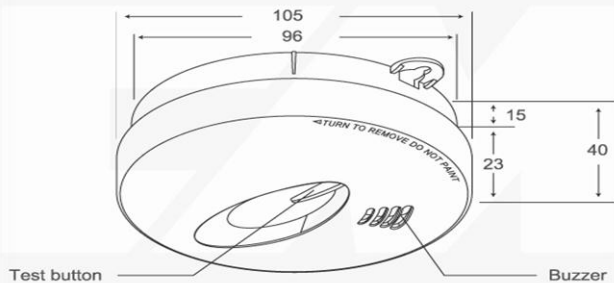| MODEL NO.	FMD-603	SENSITIVITY SETTING	Comply to EN54, CNS
TYPE	4-wire	AMBIENT TEMP.	-15°C ~ 55°C
VOLTAGE RANGE	12V	AMBIENT HUMIDITY	0 ~ 95%
ALARM CURRENT	50 mA	MATERIAL	Fire-resisting ABS
		DIMENSIONS	103(Dia.) x 43(H) mm
STANBY CURRENT	180 μA	WEIGHT	152g
POLARIZATION	Non-polarized	COLOR	Ivory

RESIDENTIAL PHOTOELECTRIC SMOKE DETECTOR (FMD-RD998)

Advantages

✱ Quickly detect the slow combustion and the fire source of the smolder

✱ When battery is low, alarm signal will be sent(buzz once per 40 sec.). Meanwhile, it can normally operate about 30 days

✱ Three-year warranty(not including battery)

Unit:mm

Dimensions

Test button   Buzzer

Specification

| MODEL NO.	FMD-RD998	AMBIENT TEMP	-10°C ~ 55°C
TYPE	Stand alone type	MATERIAL	Fire-Proof plastics
VOLTAGE RANGE	9V DC Battery	DIMENSIONS	105(Dia.) x 40(H) mm
ALARM CURENT	9V DC 10mA	WEIGHT	Approx. 146g
INDICATOR	Standby: flash every 40 seconds Alarm: flash and beep continously Battery low: beep and flash every 40 seconds	COLOR	White
		ACCESSORIES	9V Battery; Screws; Geckos; Steel nails; Hooks
SOUND OUTPUT	85 dB / M and above		
SENSITIVITY SETTING	Comply to EN 54		

FIRE ALARM SIREN (FMD-101) 12V/24V

Features

* 12 watts, 12V or 24V DC.
* Rugged high heat resistant plastic case.
* Low consumption.
* 120 dB/m.

Dimensions
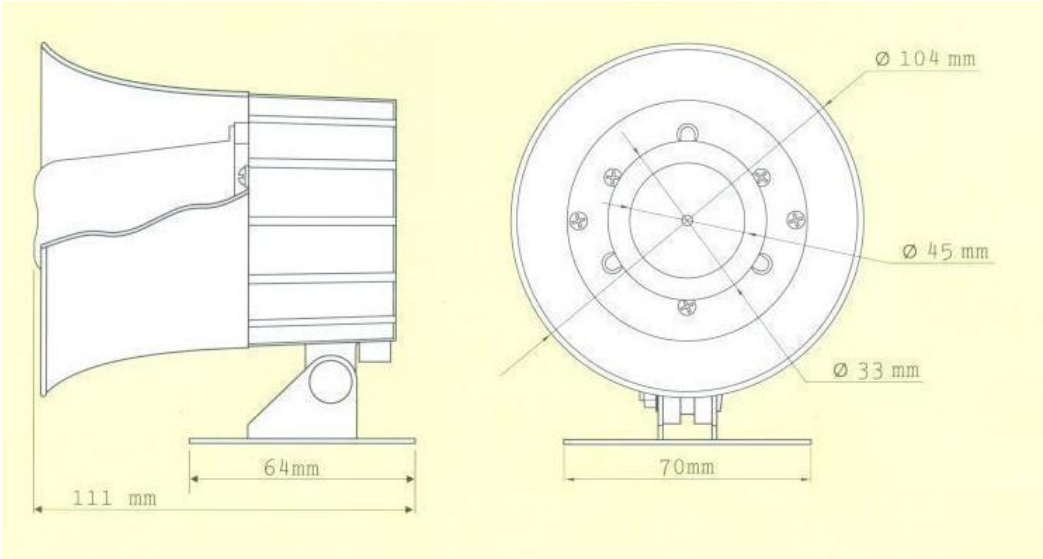
Specification

MODEL NO.	FMD-101	AMBIENT TEMP.	-10°C ~ 55°C
TYPE	2-wire	AMBIENT HUMIDITY	0 ~ 95%
VOLTAGE RANGE	12VDC /24V DC	MATERIAL	Fire-Proof plastics
ALARM CURRENT	600mA	DIMENSIONS	104 mm (W) 120 mm (H) 111 mm (L)
COLOR	White		

PRESSURE CONTROL(SINGLE TYPE)

FMS-P16

General Description

✻ For use with fluorinated refrigerants as well as with air and liquid;
  (Allowable fluid temperature : -45ºC ~ 120ºC)
✻ To protect the compressor of fluorinated refrigerants and air-conditioning system not to get lower intake pressure or higher exhaust pressure
✻ For use of switching on/off compessor and aerial condenser's fan
✻ Use for water pump, firefighting, boiler, hydraulic, ironing and vacuum, ect. sytem
✻ Novel micro-switch ensures reliable switching
✻ Max working pressure in 16.5 or 35 bar as table shown. It is can be used as protective the oil filter drier
✻ With SPDT contact mechanism
✻ Flexible mounting plate suits various kinds of application

  Application : Non-corrosive, non-viscous, non-crystalline air and liquid
  Case : Plastic
  Measuring Principle : Brass
  Connection :
  Material – Brass
  Standard – 1/4" SEA Female thread
          7/16"-20 UNF Male thread Option – 1/4" Flare Nut ; ϕ3.0 x 1.0 capillary tube
  Temperature Limit : -10ºC ~ 120ºC

Specification

Amps (A) / Rate Voltage(V)		Power Factor cos φ	AC		DC
			125V	250V	24V
Non-Indutive Current		1.0	10	5	5
Indutive Current	Full Load	0.75	8.5	4.5	2
	Locked Rotor	0.45	40	20	10

THANK YOU