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# Heat Detectors



The Fixed temperature heat detector provide an 70°C operating temperature, and the Rate of rise heat detector provide an 15°C / 60sec. The alarm point should be higher 20°C than room temperature. Rate of rise heat detectors can be used in areas office, warehouse, machine room and fixed temperature heat detector are suitable in boiler, kitchen, etc.

## Product Features

- Non-polarized, 2-wire operation
- Mounts on ceiling
- LED indicator for alarm
- Use the thermal sensor
- Low power consumption



## Specifications

■ Alarm Temperature	15°C/60 sec(Rate of Rise) 70°C (Fixed temperature)
■ Rated voltage	DC24V
■ Contact rating current	Normal-less than 25μA, Alarm - 50mA
■ Ambient condition	-10°C to 50°C, Max. 85%Rh
■ Operating indicator	Internal red LED
■ Typical usage	Max. 20 detectors per conventional circuit
■ Material	Polycarbonate
■ Dimension	∅ 109mm x 41mm (including base)
■ Weight	Approx. 84g (including base)

## Recommendable Installation

Height		Rate of Rise	Fixed temperature
Less than 4m	Flame Retardant Bldg		70 m <sup>2</sup>
	Others		40 m <sup>2</sup>
4 ~ 8m	Flame Retardant Bldg		35 m <sup>2</sup>
	Others		25 m <sup>2</sup>

## Product Codes

P101-A0101	Rate of rise heat detector
P101-A0102	Fixed temperature heat detector

If you require any further information or any other product from fire product range, Please visit our website at [www.tepgkorea.com](http://www.tepgkorea.com)





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# Fire Alarm Notification Devices



Alarm bell is suit for fire alarm system and the most signaling applications with low current and high decibel notification. Indicating Lamp is generally installed in the combination box and indicates the location of manual call point.

Within 15degree and 10m from the installation surface, indicating lamp can be easily identified. Integral phone jack and response LED is built in manual call point.

## Product Features

- Low current, high decibel notification appliances
- Easy installation, maintenance and operation
- Well designed and well adopted to other signaling ppliances
- Output 90dB / m
- Fully suppressed and non polarised.
- Manual call point has phone jack and response LED.



## Specifications

■ Rated voltage	DC 24V±20%
■ Contact rating current	50mA (Alarm Bell) Max. 1A (Manual Call Point) 30mA (Indicating Lamp)
■ Ambient condition	-10°C to 50°C, Max. 85%Rh
■ Operating indicator	Internal red LED (Manual Call Point)
■ Material	Aluminum (Alarm Bell) ABS (Manual Call Point) Poly-Styrene (Indicating Lamp)
■ Size	152mm x 63.5mm (Alarm Bell) ∅144mm x 19.5mm (Except CAP) (Manual Call Point) 90W X 50H X 46D (Indicating Lamp)
■ Weight	450g (Alarm Bell) 300g(Manual Call Point) 57g (Indicating Lamp)
■ Sound Output	90 decibel / m (Alarm Bell)

## Product Codes

P301-A0101	Manual Call Point
P301-A0102	Indicating Lamp
P301-A0103	Alarm Bell

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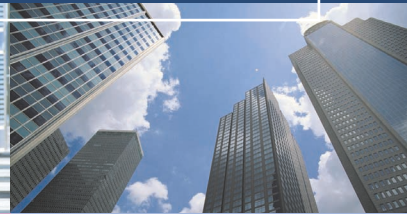
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# Intelligent Optical Smoke Detector.



Optical smoke detectors are specifically designed to meet the stringent performance requirements of industrial and commercial fire alarm systems. The design of these detectors emphasizes easy of installation and field maintenance. The optical smoke detector provides accumulation and non-accumulation(Intelligent) type. The detector reacts automatically to the environmental transformation.

## Product Features

- Self compensating
- Non-polarized, 2-wire operation
- Mounts on ceiling
- LED indicator for alarm



## Specifications

<ul style="list-style-type: none"> <li>■ Rated voltage</li> <li>■ Contact rating current</li> <li>■ Ambient condition</li> <li>■ Operating indicator</li> <li>■ Typical usage</li> <li>■ Material</li> <li>■ Dimension</li> <li>■ Weight</li> </ul>	<p>DC24V</p> <p>Normal-less than 80<math>\mu</math>A, Contact-50mA</p> <p>-10°C to 50°C, Max. 85%Rh</p> <p>Internal red LED</p> <p>Max. 20 detectors per conventional circuit (Intelligent Optical Smoke Detector) Max. 10 detectors per conventional circuit (Optical Smoke Detector)</p> <p>Polycarbonate</p> <p><math>\phi</math> 109mm x 46mm (including base) (Intelligent Optical Smoke Detector) <math>\phi</math> 109mm x 53mm (including base) (Optical Smoke Detector)</p> <p>Approx. 109g (including base) (Intelligent Optical Smoke Detector) Approx. 119g (including base) (Optical Smoke Detector)</p>
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## Product Codes

P101-A0103	Intelligent optical smoke detector, non accumulation
P101-A0104	Optical smoke detector, accumulation

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# FIRE ALARM PRODUCTS-KOREA

## HI-SENSE DETECTOR SERIES

### IONIZATION SMOKE DETECTOR



MODEL NO. : P101-A0105  
KFEIC APPROVAL LISTING NO. : Gam95-9  
CLASS : 2nd CLASS  
RATED VOLTAGE : DC 24V( $\pm 20\%$ )  
CONTACT RATING CURRENT : NORMAL - LESS THAN  $50\mu\text{A}$   
ALARM - 50mA  
AMBIENT CONDITION : -10 TO 50 , MAX. 85%RH  
OPERATING INDICATOR : INTERNAL LED-RED COLOR  
DIMENSION :  $\phi$  109mmx46mm(INCLUDING BASE)  
WEIGHT : APPROX 110g(INCLUDING BASE)  
MATERIAL : POLY CARBONATE  
RADIOACTIVE SOURCE : AMERICIUM 241  
TYPICAL USAGE : MAX. 20 DETECTORS PER CONVENTIONAL CURRENT

### SINGLE STATION IONIZATION SMOKE DETECTOR



MODEL NO. : P106-91100  
KFEIC APPROVAL LISTING NO. : Gam91-23  
CLASS : 1st CLASS  
CONTACT RATING CURRENT : NORMAL - LESS THAN  $50\mu\text{A}$   
AMBIENT CONDITION : -10 TO 50 , MAX. 85%RH  
OPERATING INDICATOR : INTERNAL LED-RED COLOR  
DIMENSION :  $\phi$  131mmx38mm  
WEIGHT : APPROX 208g(INCLUDING BASE)  
MATERIAL : POLY CARBONATE  
RADIOACTIVE SOURCE : AMERICIUM 241  
POWER SOURCE : 9V BATTERY  
ALARM SOUND OUTPUT : MORE THAN 85dB AT 3M



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# Customizing Fire Alarm Control Panel



Fire control panel provides easy installation, flexible initiating circuit monitoring and extensive control capability for areas requiring variable IDC zones. The conventional fire control panel is also compatible with conventional input devices such as two- and four-wire smoke detectors, manual call points, waterflow switches, tamper switches, and other normally - open contact devices.

## Optional Functions

- Additional Notification and Control circuits
- Alarm valve pressure switch and temper switch monitoring
- Cross zoning
- Fan control and monitor
- Damper monitor and control
- Smoke window monitor and control
- Fire Door and Shutter monitor and control

## Standard Functions

- 5/10/20/30 Initiating Device Circuits
- Main Bell (1 circuit) and Local Bell (1 circuit)
- Indicating Lamp (1 circuit)
- Emergency Announcement (1 circuit)
- Telephone (1circuit)
- Exit Light (1 circuit)
- Generator Manual Actuation
- Hydrant pump monitoring and controlling (2 circuits)
- Sprinkler Pump monitoring and control (2 circuits)
- Pressure switch monitoring (4 circuit)
- Water tank Low Level switch monitor (1circuit)



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**Features**

- Installer friendly designed
- Korea and China approval
- Simplifies maintenance.
- Enhances fire detection and eliminates nuisance.
- Open circuit fault monitoring.
- Integral power back up battery
- Available telephone handset as an option

**Specifications**

- **Power Source** AC 110V / 220V, 50 ~60Hz
- **Control voltage** DC 24V (±20%)
- **Power Consumption** 150 VA MAX.
- **Contact capacity** Max. 1A
- **Emergency power** DC 24V, Ni-cd 0.5Ah battery (5 circuit control panel)  
DC 24V, Ni-cd 1.2Ah battery (10/20/30 circuit control panels)
- **Stand-by time** Supervision: More 60 minutes, Alarm : More 10 minutes
- **Ambient condition** -10°C ~ 50°C, Max. 85% Rh
- **Dimension** 283mm x 340mm x 86.5mm (5 circuit control panel)  
400mm x 600mm x 172mm (10/20/30 circuit control panels)

**Product Codes**

P401-A0101	Conventional Fire Alarm Control, 5 Circuit
P401-A0102	Conventional Fire Alarm Controls 10 Circuits
P401-A0103	Conventional Fire Alarm Controls 20 Circuits
P401-A0104	Conventional Fire Alarm Controls 30 Circuits
P905-A0101	Telephone handset 1SET

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# Pro Alarm

## 5/10 Zones Conventional Fire Alarm Control

### Introduction

Pro-Alarm, 5/10 zones Conventional Fire alarm controller is specially designed to meet market demand and satisfy customer needs with high technology and long experience of Tyco Safety Products Korea. Advanced design and manufacturing techniques provide you high quality, competitive price and reliable operation. Pro-Alarm system is best for offices, shops, small guest hoses and manufacturing& warehouse units.

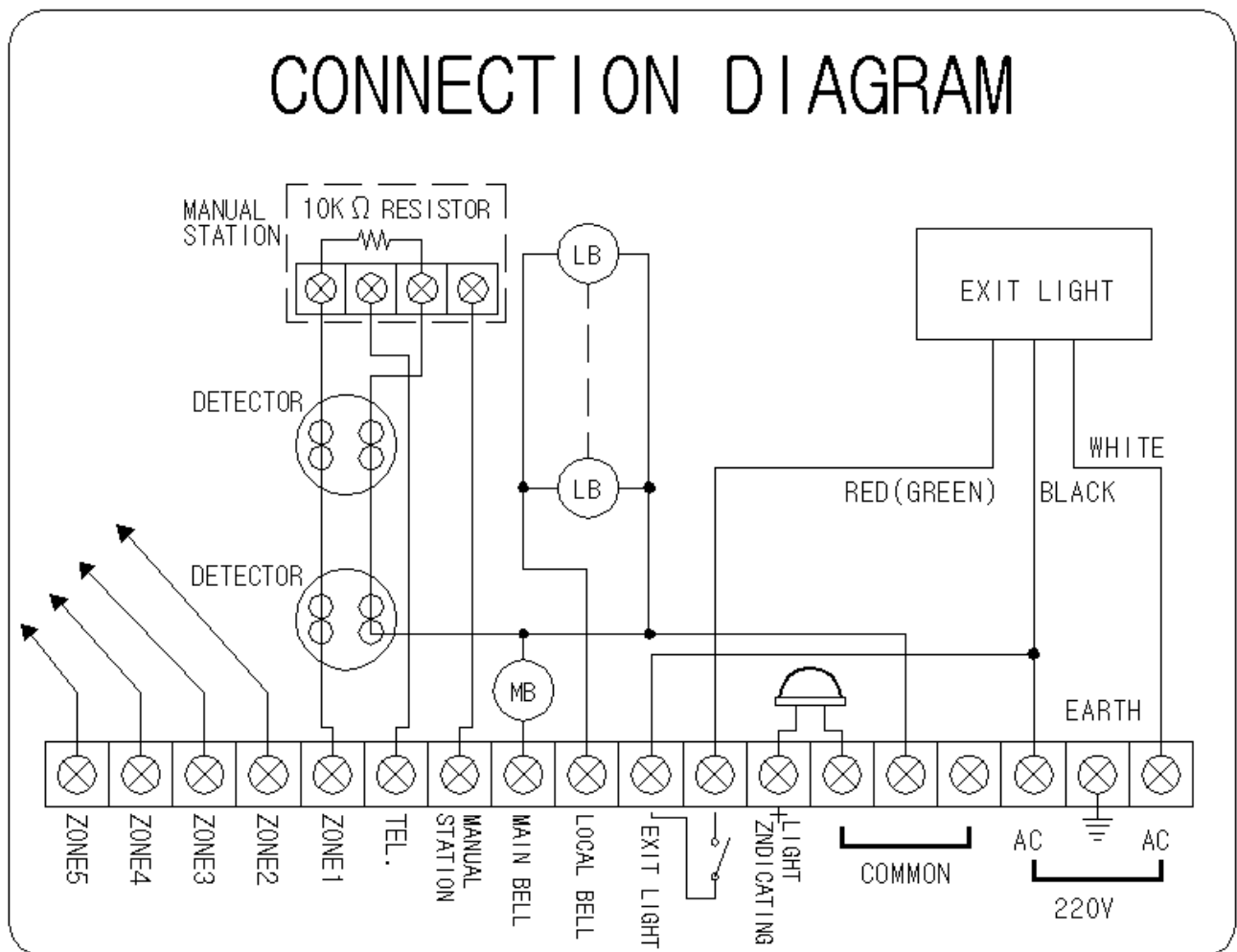
### Features

- Clear LED display & easy operating push button
- Easy connection with one touch terminal
- Built in battery charge & Standby power
- Main bell and local bell stop switch
- Zone Test
- Auto Reset
- Stand-by Power Test
- Open Circuit Test
- Alarm verification type (30±5 seconds), providing the optimum in false alarm immunity.
- The alarm verification function can be released by setting DIP switch
- "MANUAL STATION" indicating lamp
- Available in selection of controlling Exit Sign
- Telephone jack built in for maintenance
- Non-Combustible Material ABS



# Specifications

Product Description	5 zones control panel	10 zones control panel
Product Code	P401-A0301	P401-A0302
Power Source	AC 100V/220V, 50 ~60Hz ±10%	
Control voltage	DC 24V	
Standby Power	DC 24V,Ni-Cd,0.6Ah Battery	DC 24V,Ni-Cd,0.9Ah Battery
Ambient Temperature	-10°C ~50°C	
Operating Humidity	85% Rh	
No of detectors per circuit	Max 20 detectors per circuit	
	Smoke Detector: 10 ea, Heat Detector: 20 ea	
Local bell	Below DC 24V, 600 mA	Below DC 24V, 1000 mA
Indicating light	Below DC 24V, 300 mA	Below DC 24V, 500 mA
Exit light	Below 220V, 1A	Below 220V, 3A
EOL Resister	10 k	
Material	Non-Combustible Material ABS	
Dimension	326(H)mm x 266(W)mm x 70(D)mm	





# *Explosion proof Detector*

## *Heat Detector*

- **Explosion Proof Detector**
- **High quality picture**
- **Proven system reliability**



**Introduction**

TEPG Korea provides explosion heat detectors with fixed temperature type. This heat detector is suitable for use in areas with explosive atmospheres.

**Features**

- Resisting pressure explosion proof construction
- Wide range of operating temperature
- Corrosion resistant stainless steel construction
- Suitable industrial control
- Standard conduit mounting thread



**Specifications**

Model	P602 - A0102
KOFEIC Approval listing no	Gam00-24
Operating voltage	DC 24V ± 20%
Switching Current	30mA
Actuating Temp	90°C
Relative Humidity	95%RH
Stand by current	100µA
Dimension	W94mm X H94mm X D144mm
Material	Housing-die cast aluminum, sensor brass
Weight	Approx 930g

**Product Codes and Prices**

Product Code	Product Description
P602-00E09	Point Type Heat Detector

# P451 Series

## Conventional Releasing Control Panels

### Features :

- KOFEIC Approved
- Fully customized panel available
- 2/4/...10, Up to 10 IDC circuits(Wall mount type)
- 6/8...26, Up to 26 IDC circuits(Self standing type)
- Customized Labelling
- (CO<sub>2</sub>, Halon, Inergen, FM200, Sprinkler and etc..)
- Built in Battery charger
- False fire alarm function
- Supervisory function for IDC circuits
- LED display for Fire, Zone and Power supply
- Timer function
- Abort function



### Conventional Releasing Control Panels

P451 Series Conventional Releasing Control Panels are fully customized products which can meet any requirements from customer, such as fire zones, releasing zones, auxiliary controls, 3rd party interface and etc. And this is highly reliable one that is based on over 35 years experience and technical knowledge from Tyco Safety Products Korea.

It will control to discharge the releasing agents by coincident fire alarm signals, which generated by only one signal from two of zonal detectors(this time control panel will just make an output signal to Notification alarm circuit) plus by receiving another fire signal from second detector within 45secs(Up on timer setting) after receiving of alarm signal from first detector. With this coincident fire alarm signal, this control panel will send an output signal in order to activate solenoid valve in agents side then the agents will be released for extinguishing fire.

This is just make sure to release agents by real fire situation. And also possible to abort releasing process with connected abort switch if it is not a real fire situation or not necessary to release agents by faster remedy action in site.

## Mechanical

Dimensions(mm);	H	W	D
Wall mount type	400	400	172
Self standing type	1800	500	350

### Approx. Weight :

Wall mount type	Approx. 30Kg/Set
Self standing type	Approx. 120Kg/Set

Material :	1.2T Steel plate(Wall mount type)
	1.6T Steel plate(Self standing type)

## Color

Housings :	Beige(F-288002), Epoxy Primer
Control module :	Gray

## Environmental

Ambient condition : -10 ~ 50 , Max. 85% Rh

## Electrical

Supply Voltage :	110/220V AC± 10%, 60Hz
Input Current :	24V DC, 1A
Back up Battery :	24V DC, Ni-cd Battery, 1.2Ah or 2.4Ah(Wall mount type)
	24V DC, Ni-cd Battery, 1.2Ah or 2.4Ah(Self standing type)
Power consumption :	Max. 100VA / Set(Wall mount type)
	Max. 150VA / Set(Self standing type)

## Ordering information

Stockcode	Description
P451-A0101	Auto Extinguishant control panel (2 zone)
P451-A0102	Auto Extinguishant control panel (4 zone)
P451-A0103	Auto Extinguishant control panel (6 zone)

For further information, please contact our Customer service team or visit us at [www.tycosafetyproducts-korea.co.kr](http://www.tycosafetyproducts-korea.co.kr)

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