



Introduction

It is basic training course in Fire alarm annunciation technology. The training system consists of various types of Fire sensors like smoke detector, thermal detector, gas detector & annunciation devices and ancillary components used in fire alarm wiring technology.

- 01 Facilitates easy and safe wiring by students due to use of 4mm sturdy Shrouded banana path cords & shrouded socket arrangements.
- 02 All Panels are mounted on finely painted sturdy base frame with easy Panels interchangeability.

Panels Provided

SN.	Name of PanelOrder Code	e Qty.
01	Aluminum Fire Alarm Trainer Rack69700	01
02	Single Phase Power Supply69501	01
03	Emergency Pushbutton69518	01
04	Alarms69519	01
05	Fire, Intrusion and Gas Alarm Control69543	01
06	Smoke Detector69544	01
07	Thermal Detector69545	01
80	Gas Detector69546	01
09	Blinker69550	01

Accessories Provided

SN	Description	Otv
514.	Description	Sch.
01	Shrouded connecting leads 4mm 50cm Red)5
02	Shrouded connecting leads 4mm 100cm Red)5
03	Shrouded connecting leads 4mm 50cm Black)5
04	Shrouded connecting leads 4mm 100cm Black)5

List of Experiments

SN.	Name of ExperimentPanels Required		
	•	•	
01	Smoke Detector	69501, 69518, 69519, 69543, 69544, 69550	
02	Thermal Detector	69501, 69518, 69519, 69543,69545, 69550	
03	Gas Detector	69501, 69518, 69519, 69543, 69546, 69550	

Note: Specifications are subject to change.

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DETAILS OF MODULES



1. SINGLE PHASE POWER SUPPLY Order Code - 69501

Single Phase Power Supply is designed to familiarize students with various methods of protection of power circuits. It has been made with safety and protection in mind and with strong insulation

Procedure

01 Connect the Input AC Voltage at Input

02 Switch ON the Two Pole MCB Terminal

03 Turn the key lock switch

04 Check the light indication

05 Observe the Output at Output Terminal



2. EMERGENCY PUSH BUTTON

Order Code - 69518

Emergency stop push button are a must for automated machines and plants in an emergency. Anyone pressing the button immediately puts a machine in a safe state by stopping the hazardous movement. The emergency push button module has a red emergency push button. The switch has one contact. The module has been made with safety and protection in mind

and with strong insulation.

- 01 Connect the emergency switch in the circuit
- 02 Normal condition the contact are connect
- 03 When we press the switch than contact are break
- 04 After that the emergency switch move in clockwise direction for further use.



3. ALARMS

Order Code - 69519

An alarm device or system of alarm devices gives an audible, visual or other form of alarm signal about a problem or condition. Alarm module comes with a buzzer and a red LED optical indicator. The module has been made with safety and protection in mind and with strong insulation.

Procedure

01 Apply the input 230V AC at input terminal

02 Check the RED LED optical indicator blink and hear the sound



4. FIRE ALARM CONTROL PANEL

Order Code - 69543

Eight multifunction programmable input control unit for fire, intrusion and gas detection.

- 01 Anti-sabotage line, 24h
- 02 Outputs at 12V for power supplying the sensors
- 03 Output at 14V for charging the battery.
- 04 Programmable alarms relays
- 05 Power supply from mains.



5. SMOKE DETECTOR

Order Code - 69544

A smoke detector is a device that senses smoke, typically as an indicator of fire. Commercial smoke detectors issue a signal to a fire alarm control panel as part of a fire alarm system and usually no alarm from the detector itself, however, some do have built-in sounders.

Photo optical smoke detector with relay output.

Typical protected area: 80m2. Connected through 4 wires

Memory LED

Output for remote memory LED. Absorption while in operation 60uA.

Power Supply: 12VDC

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DETAILS OF MODULES



6. THERMAL DETECTOR

Order Code - 69545

Fixed Temperature Heat Detector works when the heat exceeds a pre-determined temperature, the bi-metal deflects and closes the contact, triggering the fire signal. Fixed Temperature Heat / Thermal Detectors can respond to: Fixed temperature limit. Rapid rate of change of the temperature in the protected area. Combined thermos velocimetric and fixed 600C.

Conventional temperature detector. Typical protected area: 40m2

Connection through 2 wires, memory LED, Output for remote memory LED.

Power Supply: 12VDC



7. GAS DETECTOR

Order Code - 69546

A gas detector is a device that detects the presence of gases in an area, often as part of a safety system. A gas detector can sound an alarm to operators in the area where the leak is occurring, giving them the opportunity to leave.

Methane gas sensor Power Supply: 12V DC Absorption: 60Ma standby

Range:30m2

Alarm output: NC contact, 100mA



8. BLINKER

Order Code - 69550

Big round warning light can serve as a striking warning signal for safety; suitable for the security booth, road entrance, construction site, airport, etc.

This product only has flashing light warning, no sound effect.

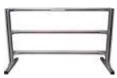
Size: Approx. 100 x 75mm/ 3.94 x 2.95

inch (Dia. x H)

Working Voltage: 12V DC, 120mA

Flashing Frequency: 90 times/min

10. ALUMINUM FRAME - MODULAR PANELS Order Code - 69700.



Aluminum Fire Alarm Trainer Rack madeup aluminium profile size 40×40mm, foldable and light in weight 10 panel setup can be interchange convidently to perform experiments. Dimention Length 1100 × Hieght 1000 × Depth 350mm.

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