



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.

Features

- 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 Panel	Order Code	Qty.
01	Aluminum Fire Alarm Trainer Rack	69700	01
02	Single Phase Power Supply	69501	01
03	Emergency Pushbutton	69518	01
04	Alarms	69519	01
05	Fire, Intrusion and Gas Alarm Control	69543	01
06	Smoke Detector	69544	01
07	Thermal Detector	69545	01
08	Gas Detector	69546	01
09	Blinker	69550	01

Accessories Provided

SN.	Description	Qty.
01	Shrouded connecting leads 4mm 50cm Red	05
02	Shrouded connecting leads 4mm 100cm Red	05
03	Shrouded connecting leads 4mm 50cm Black	05
04	Shrouded connecting leads 4mm 100cm Black	05

List of Experiments

SN.	Name of Experiment	Panels 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.

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.

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

Procedure

- 01 Apply the input 230V AC at input terminal



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

Note: Specifications are subject to change.

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

Flashing Frequency: 90 times/min

**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

**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 conveniently to perform experiments. Dimention Length 1100 × Hieght 1000×Depth 350mm.

Note: Specifications are subject to change.