FIRE ALARM SYSTEM

➡ MODEL : E 31D

INTRODUCTION

This fire, intruder and temperature alarm system is specially designed to meet the safety requirements and to protect the unmanned equipment rooms from unpredictable events such as fire, unauthorized intrusion and unsafe room temperature. Under any of the above calamities, this integrated system generates audio-visual alarms and gives instant alert signal to the concern people so as to take the further action. Along with local alarms, this system also provides remote alarms through PFC contacts.

SYSTEM BASIC FEATURES

A FIRE ALARM

The control panel generates audiovisual alarm on receipt of trigger commands from fire sensor. Beeper tones are used to indicate the fire condition. This will alert the local staff so as to activate the fire fighting device or to take other appropriate measures.

B INTRUDER ALARM

Unmanned equipment rooms such as microwave stations or exchanges are monitored and protected from unauthorized entry. For this purpose magnetic door sensors are used to trigger the control circuit that generates the audiovisual alarm.

C TEMPERATURE ALARM

The room temperature is continuously monitored by control panel. For this purpose RTD sensor is used, that sense the room temperature and if it is exceeds the safe limit, system triggers the visual and remote alarms.

All above sections continuously monitor the protected premises and generates respective alarms and also provide the trigger signal for remote alarms through potential free relay contacts. Those individual alarms can be further sent to the central control station or switch room.

Optional feature : Fire Alarm II
The control panel generates Second Fire alarm, which can be used to trip the mains supply, AC, or for other requirement of user.

SPECIFICATIONS

System configuration

a] Fire zone	One
b] Fire sensor	Apollo optical smoke sensor (1 to 4 nos.)
c] Door sensor	Magnetic door sensor
d] Temperature sensor	Temperature sensor (RTD)
e] Front panel controls	Tact switch for System check, Fire alarm reset, Arm/Disarm for door, Temperature selection

Audiovisual indications

01] System on	Green indicator
02] Fire	Flashing twin red indicator & beeper tone
03] Fire sensor open	Amber indicator & beeper tone
04] Fire sensor short	Amber indicator & beeper tone
05] Door open	Red indicator & beeper tone
06] Temperature high	Red indicator
07] Temperature Display	Red LED display

REMOTE ALARMS

All remote alarms are separately provided through potential free relay contacts. NC / POLE / NO terminal is provided on main card for selection of alarm type as per user requirement.

Electrical specifications

a] Operating supply	48 VDC +/- 15%
b] Power consumption	Min 1.5 W to Max 15.0 W

Mechanical specifications

a] Panel size	H X W X D 240 X 185 X 70 MM
b] Panel weight	1.5 Kg. (excluding sensors)
c] Panel color	Off white with polycarbonate front sticker
d] Panel mounting	Vertical wall mounting