

Fire Alarm Trainer (Model : XPO-FAT)



Salient Features :

- ◆ Has built in standby batteries to demonstrate working of FAT system in case of mains supply failure.
- ◆ Facilitate hands on training through use of 4mm patch cords by constructing FAT circuits using various fire detectors.
- ◆ Each panel has ABS molded plastic sturdy enclosure, and colorful screw less overlays showing circuit diagram & its connection tag nos. for easy understanding & connections.
- ◆ Provides real time simulations and activation of the fire alarm control system.
- ◆ Set of Instructor Guide & Student Workbook

TECHNICAL SPECIFICATIONS

A] Aluminum profile rack (5x4) sturdy flat demo panel (table top) system carrying various components housed in plastic enclosures (panels) to minimize shock possibility, in top three rows. The bottom row holds control panel with batteries.

- ◆ **1 Phase AC Input Supply Panel (EMT16A)**
 - 1 ph.dual MCBs of 2A for short circuit protection
- ◆ **Smoke detector panel (FAT1)**
 - Photoelectric smoke sensor
 - Operating voltage – 12VDC
 - Standby current – 20uA
 - Alarm current – 35mA@12VDC
 - Alarm output – Remote LED
 - Temperature range – 0% ~ 95%RH
- ◆ **Heat detector panel (FAT2)**
 - Operating voltage : 12VDC
 - Static current : <55uA
 - Alarm current : <25mA@12VDC
 - Alarm output : Remote LED ON,
 - Temperature trip point : 135°F (57°C)
 - Operating temperature : -10°C ~ +50°C, <95% RH
 - Detecting range:50 square meter with the installation height of 6m: 12m
- ◆ **Manual Call Point (MCP) panel (FAT4)**
 - Operating voltage : 12VDC
 - Resettable type : MCP
 - Active/ de active LED indication
 - Push to activate & deactivate by plastic key
- ◆ **Siren with flasher panel (FAT5)**
 - Operating voltage : 12VDC@500mA
 - Power : 6W
 - Sound level : 105dB
 - Flashing rate : 150 per minute
- ◆ **Gas (LPG) Leak detector panel (FAT3)**
 - Operating voltage : 12VDC
 - Relay output contacts with max : 24V@1A
 - Inbuilt alarm indication buzzer
 - Inbuilt heat detector (trip point 60°C)
- ◆ **Control panel (FAT6)**
 - Supply voltage : 230VAC +/-10%/ 50Hz/max 2W
 - 12VDC (6V,4.5A x2nos) rechargeable battery backup
 - Zone indication : Fire detection, sensor open, sensor short, sensor bypass & zone test indication
 - Status indication– system ON, fire indication, reset key hit, silence key hit, zone fault & siren ON
 - Fault indication : AC fail, Hooter fail, Battery low
 - 5 keys keypad
 - Keypad enable/disable by key lock
 - Relay output for siren with max : 24VDC@5A
 - Operating temperature: 0 to50°C, <95%RH
 - Auxiliary output : 12VDC/500mA
- ◆ **List of Experiments**
 1. To work with smoke detector/sensor.
 2. To work with heat detector/ sensor.
 3. To work with Gas (LPG) leak detector/sensor.
 4. To work with Manual Call Point (MCP).
 5. To work with siren with flasher.
 6. To work with control panel.
- ◆ **Mechanical Dimension (mm) / Weight**

1170(L) x 300(W) x 990(H)/ Net Wt. = 25 Kg.
Gross Wt. = 35 Kg.