

Features and Benefits

- Built-in Printer.
- Compliance EN54-2 & N54-4.
- Using advance microprocessor technology with Large memory capacity.
- Enhance user interface combining LCD Touch screen and keypad access.
- Support real time visual algorithm.
- Enhance false alarm prevention .
- Keypad and PC programming .
- Support Multiple interface protocol such as USB/Ethernet/Can Bus/Serial /RS485/Fiber Optic.
- Support Loop Powered devices for extra saving on cable cost.
- Built-In Printer and 160 LED Zones Indicators.
- Multi Language .



Commissioning Advantage

- Auto Enrolling of Devices
- Loop Mapping with colour coding status
- Monitor device mismatch and dual address conflict
- Command Builder to create requirements for fire event scenario
- With Loop protection against power surge
- One-man test with On/Off sounder
- Programming Protection

Commissioning Advantage

- Up to 4 loop
- Support 254 Devices/One loop (1,016 ideal)
- Network up to 512 Node
- Programmable Capacity
- Zones up to 3000
- Sounders Groups 1-1000
- Other Groups 1001- 2000
- Built-in 160 LED Zones Indicator

Overview

The LF-X500-1/ LF-X500-2/ LF-X500-4 comprise of a range of analogue addressable, microprocessor based fire alarm control equipment to offer flexibility in both design and operation. The System is modular concept for easy tailoring of system design, to meet the full requirements of the project. The FACP Intelligent Fire Alarm Control Panel is designed and manufactured to meet the requirement of BS EN54 Part 2&4.

This series of panels are basically the same in application and operation, their differences are shown in Table 1-1.

FACP	Number of Loops
LF-X500-1	1
LF-X500-2	2
LF-X500-4	4

The FACP is designed to provide early warning fire detection, to quickly identify the location of fire and provide user definable text informing the occupants of the building of potential smoke spread. Simultaneously, The FACP will alert and evacuate the occupants, and control all necessary auxiliary command functions such as elevator control, air handling shut down, gas shut off & damper control, as per the cause and effects requirements configured through Command Builder Set-up.

The FACP modular construction panel, capable of supervising four [4] monitored detection loops expandable up to six [6] loops on standalone basis. Each loop is capable to accommodate of 254 addressable devices of any combination with LIFECO protocols, namely intelligent sounder strobe LF-X5300 & intelligent sounder LF-X5320 complying with EN 54-3, rate of rise and fixed temperature heat detector LF-X5110 complying with EN 54-5, photoelectric smoke detector LF-X5100 complying with EN 54-7, intelligent manual call point LF-X5140 complying with EN 54-11, intelligent reflective beam detector LF-X5130 complying with EN 54-12, input and output module LF-X5210, complying with EN54-18, and loop isolator LF-X5230 complying with EN 54-17. The LIFECO devices are fully loop powered to support saving cost of the cable.

These systems incorporate a number of features to allow easy operation through a user-friendly menu. The FACP has a LCD touch screen and Keypad menus for alternative operation with large button access to operate the keypad control by fire brigade personnel providing total user-friendly interface for browsing and programming. Added the commission features such as colour coded loop mapping, dual address and device mismatch monitoring, one-man test, simplified command builder's configuration that has proved to be highly rated by both commissioning and service engineers.

The Control Panel has multiple built-in features. The loop card has built-in surge protection and the communication card interface support multiple interface protocol such as USB, Ethernet, CAN Bus, Serial, RS485, Fiber Optic in one single card. The panel is Built-In Printer and 160 LED Zones Indicators. The panel provides variety of inputs and outputs interfaces and auxiliary such as Output to Sounder, F.P.E., Alarm and Fault output, Relays and Power Auxiliary.

Ordering Information

LF-X500-1	1 Loop LPCB Approved .7" LCD display touch screen, Fitted with 1x Single Loop Card, basic configuration up to 254 Addressable Devices, expandable to 6-loop by adding loop card. With Printer. NO Glass door. Optional 4-in-1 Communication Card
LF-X500-2	2 Loop LPCB Approved .7" LCD display touch screen, Fitted with 1x Dual Loop Card, Basic configuration up to 508 Addressable Devices, expandable to 6-loop by adding loop card. Built-in Glass Door and Printer. Optional 4-in-1 Communication Card
LF-X500-4	4 Loop LPCB Approved .7" LCD display touch screen, Fitted with 2x Dual Loop Card, Basic configuration up to 1016 Addressable Devices, expandable to 6-loop by adding loop card. Built-in Glass Door and Printer. Built-in 4-in-1 Communication Card

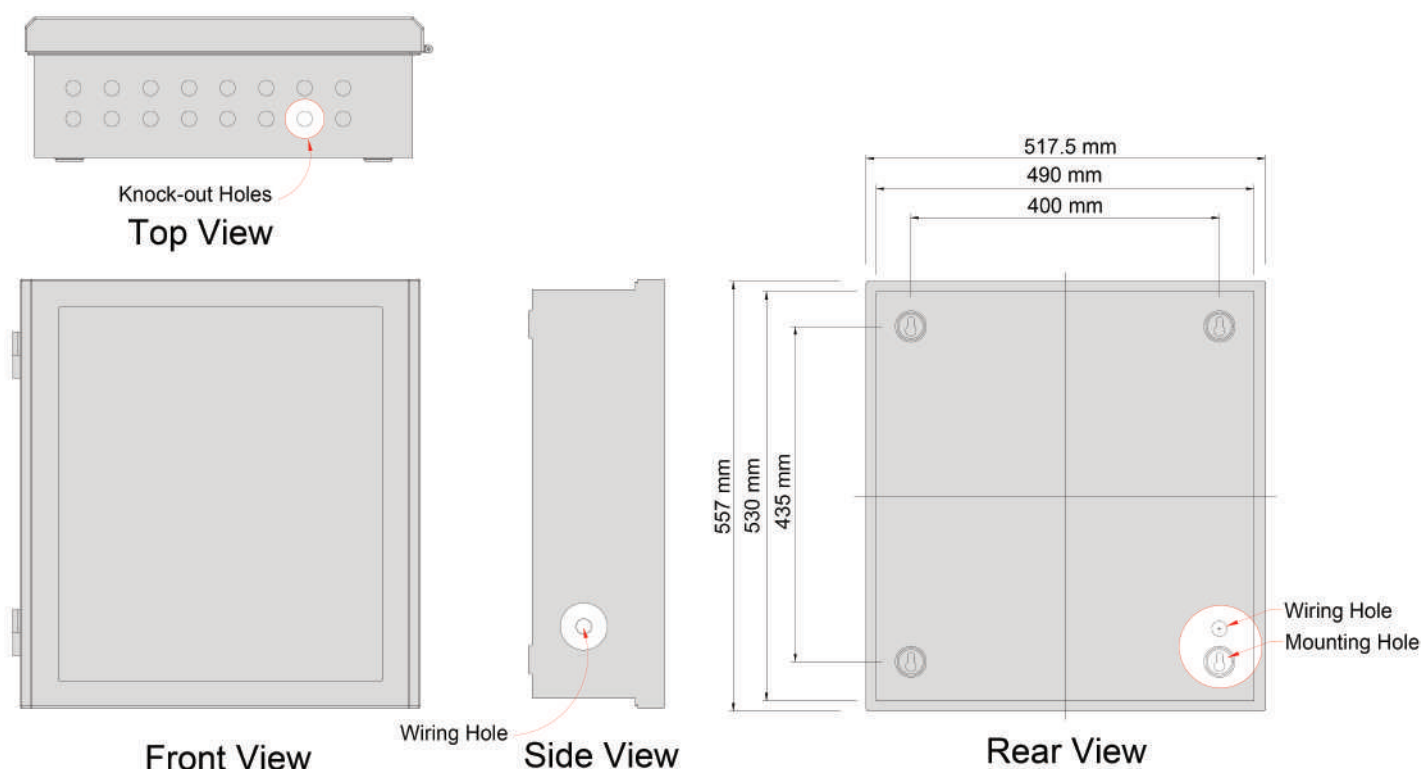
Technical Specification

Listed	LPCB Certification
Compliance	EN54-2 & 4
Input Voltage	230VAC +10%-15%, 50/60Hz (120VAC, 60Hz, it is not applicable for EN54 & Not tested by LPCB)
Input Current Consumption	1A
PSU Output To CIE	21.5~28.5VDC
Batteries	Maximum Charge Capacity: 2 x 12V / 28AH Maximum Charge Current: 1.2A I maxA: 0.93A I maxB: 2.53A Minimum Quiescent Current: 0.45A (Imin) Maximum Internal Resistance: 1.0Ω Rechargeable-Lead acid type battery
Recommended manufacturer and model of battery:	PS-12280 12V28AH (Tested With CIE by LPCB)
Networking and Interfaces	
Panel to panel communication	Can Bus [loop]
Number of Panels	512
Interface Port	USB, RS485 Serial, RS232 Serial, Ethernet
System Capacity	
Memory [Non-Volatile]	1000 Fire Events, 10,000 General Event
Zones	3,000 programmable
Total Group	3,000 programmable
Sounder Group	1,000 programmable
Common Group	2,000 programmable
Loop Specifications	
Protocol/Addressing	LIFECO, Value range from 1 to 254
No. of Loop	4 Loop
Protection	Built-in 4kV Surge protection
Power rating	16~24Vdc /120Ma
Cabling	1.0Km Max Length/2 x 1.5mm ² solid core Fire resistance
Recommended Wiring	(subject to local installation codes)
ISST-SFR3/ 711c-(cl-5)	Intelligent Safety & Security Technology Limited
NoBurn XPS/ 682e/01	Ventcroft Limited
FT30 SAFFIRE/ 1134j	Draka UK Limited
Context Plus/682a-(cl-3)	Context Plus Ltd
FP200 Gold LSOH/ 077k/01	Prysmian Cables & Systems Limited And all LPCB approved Fire cables Recommended Cable Length ≤1000m
Panel Input/outputs	
Programmable Relays	4 circuits: Normally Open/Close
Programmable Input	1 Circuit: Current Limited 24Vdc (for future use)
Programmable Auxiliary Power	19~28Vdc (Current Limited)
Fixed Outputs (FPE/Sounder)	2 Circuits: 18~28Vdc (Current Limited)



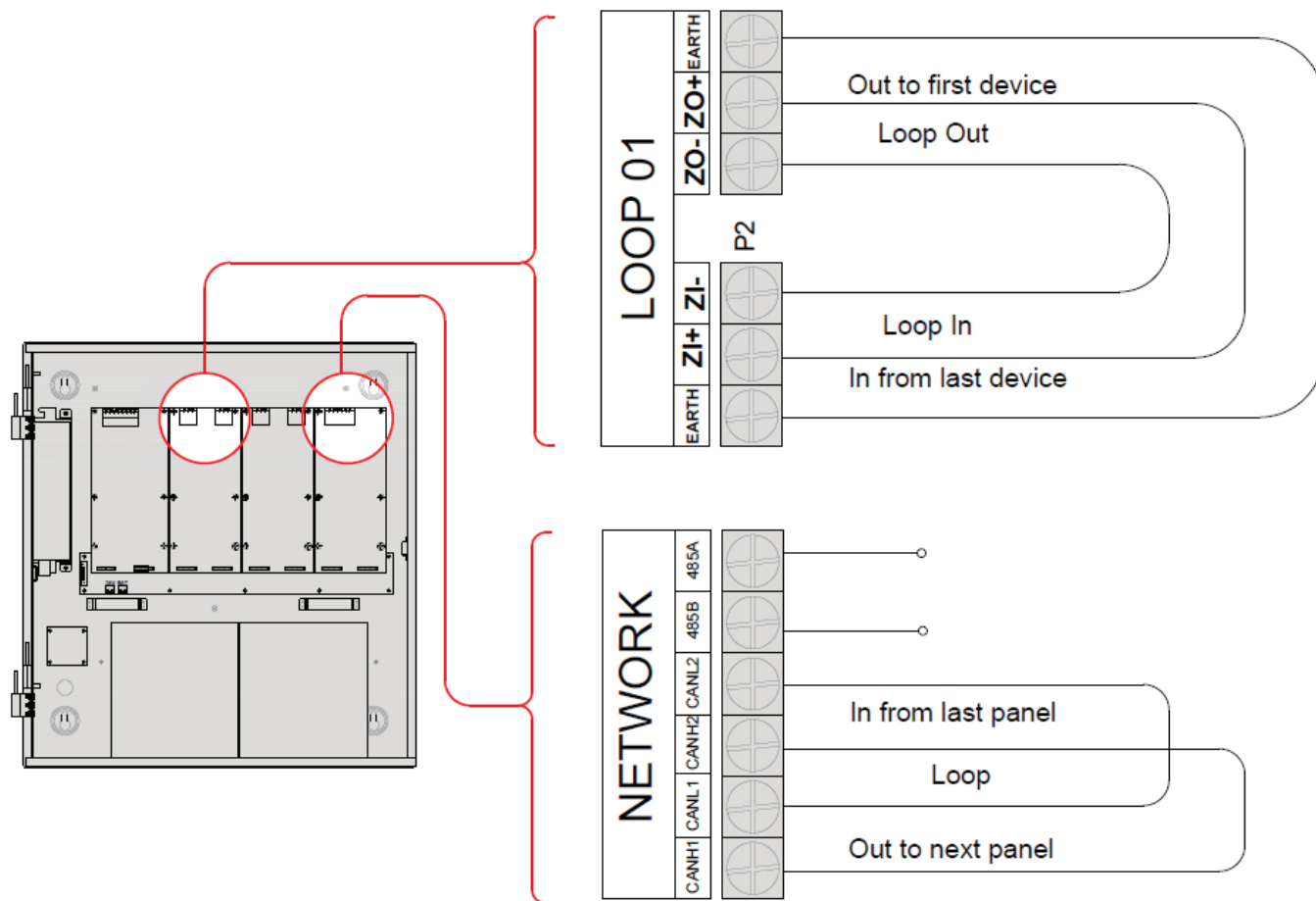
Indicator	24 LED Status/ 160 Zone Indicators
Display	7" TFT Touch Screen
Keypad	5 Brigade buttons and Programming Keypad
Material / Color	Flat sheet Metal / with outer glass door, Black
Dimension Lx W x H	530 mm x 490 mm x 135 mm
Weight	16.70 Kg
Temperature	-5°C~+40°C
Humidity	0 to 95% Relative Humidity, Non condensing

Cabinet Details





Loop and Network Wiring Details



Input/output Wiring Details

