XFP NETWORKABLE ANALOGUE ADDRESSABLE FIRE ALARM CONTROL PANEL

ONLY EXPERIENCED INSTALLERS OF ANALOGUE ADDRESSABLE FIRE SYSTEMS SHOULD READ THIS DOCUMENT

# quick guide

## in the form of a worked example

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## **IMPORTANT NOTES**

It is assumed that the person reading this guide is:

Familiar with the concept of analogue addressable fire alarm systems and is skillful in their installation.

A competent person who is qualified to connect the mains (230V a.c. supply) AND has READ the safety instructions in the main XFP engineering manual.

Has enough design ability to know where and how many loop isolators to use, calculate battery sizes, etc., without asking.

Has a PC loaded with the latest version of the XFP's programming software tools and is familiar with the use of this kind of PC software.

If you do not meet ALL the above criteria, READ the FULL XFP ENGINEERING MANUAL INSTEAD.

## **ABOUT THIS GUIDE**

This quick guide follows a worked example of a hypothetical XFP installation (at FREDCO Ltd) and is designed to show as many features of the XFP and their implementation as possible. Although it is unlikely that such a small installation would contain so many variations to the normal standards, it gives a relatively quick overview of the system's capabilities for experienced installers.

For the purpose of this guide, it is assumed that:

- you have fitted the hypothetical XFP system illustrated and outlined on pages 3 to 5.
- the circuits are fault free and connected.
- the panel is switched on and you are familiar with the default access codes for the panel.
- you have loaded the latest XFP software onto your PC and connected the upload download lead (supplied in the XFP507 kit) to the XFP and the PC's comms ports.

#### Disclaimer

© No responsibility can be accepted by the manufacturer or distributors of this range of fire panels for any misinterpretation of an instruction or guidance note or for the compliance of the system as a whole. The manufacturers policy is one of continuous improvement and we reserve the right to alter product specifications at our discretion and without prior notice. E&OE.

## FREDCO SYSTEM ILLUSTRATION (FIGURE 1)



## SYSTEM OUTLINE

A brief outline of the FREDCO installation this guide is based on (see figure 1, page 3) is given below:

- The premises comprise an office and warehouse.
- The insurance company requires the warehouse to be covered with automatic detectors when 'unoccupied' but accepts that a less sensitive level of smoke and heat detection is sufficient when the building is 'occupied'. The client has pointed out that this may still cause false alarms. A compromise has been reached by all parties that heat detection with a lower sensitivity level of smoke detection will be acceptable on a 'double knock' facility (Type 'A' dependency). Note, if a call point is activated an immediate alarm condition is raised.
- Diesel powered vehicles and forklifts enter the warehouse (zone 4) during normal working hours and there is a strong possibility that smoke levels in the warehouse will surpass the trigger point of an optical detector.
- Since different people enter the building at different times a facility to manually put the system into 'occupied' mode is required (as opposed to using a time switch).
- It is acceptable for the system to automatically enter 'unoccupied' mode at 18:00 hours but there is no requirement for this facility at the weekend.
- A digital communicator is installed for the burglar alarm and its fire channel needs to be connected to a remote manned centre for monitoring.
- The FREDCO building has three floors with two staircases (north and south). There is a requirement for smoke vent control from these staircases should they or any adjacent zones go into Fire.
- There are three magnetic door releases of the failsafe type already on the existing system. These should be reused but should only be re-armed after the system has reset (not when it is silenced).
- One zone of old conventional detectors are to be re-used (zone 5).
- Sounder beacons should be used in areas where there is likely to be a lone person, for example, in the gents and ladies toilets.
- The FREDCO building is connected via its south staircase fire escape to an adjoining building. There is a requirement to release the lock on FREDCO's fire escape should the fire alarm in the adjoining building be triggered, but not vice versa.
- A connection should be made to the adjoining building's fire panel which will sound FREDCO's sounders if it triggers but NOT activate its digital communicator. The FREDCO system should automatically silence when the adjoining building's panel is silenced.
- The adjoining building's panel is also required to sound if the FREDCO panel triggers. An output is therefore required to signal when FREDCO's alarm is sounding. This output should be delayed by three minutes, unless it originates in the warehouse when it should be instant.
- There have previously been incidents of people smoking in the entrance foyer (zone 8) resulting in the Fire Brigade being called out because a smoke detector had triggered. To help combat this, all interested parties have agreed that a two stage timer should be used in the form of an initial 'input delay period' followed by a separate 'user investigation period', prior to a full alarm being raised in this area only. These two time periods should be less than 4 minutes when added together. If the panel HAS NOT been reset, or the investigate function activated, during the input delay period, a full alarm condition will occur. If the panel HAS NOT been reset during the user investigation period, a full alarm condition will occur.

Note, input delay period and user investigation period do not apply to call points because an alarm condition is raised immediately at the panel when they are activated.

#### From the outlined specification it can be derived that the following structure needs to set up:

- Nine Zones of detection (which includes one for the adjoining building).
- One Group of alarm sounders/beacons.
- Five Sets of output conditions:

One Set each for the two vent controllers. One partially timed Set for connection to the adjoining building's fire alarm system. One 'all out' Set for the door releases. One Set assigned to release the connecting Fire Escape between FREDCO and the adjoining building.

- One panel relay assigned to the panel's internal programmable output 1 for connection to the autodial communicator.
- A dedicated fault output to the digital communicator.
- One panel programmable input assigned to activate 'occupied mode' on the operation of a momentary switch.

## **CONNECTING THE PANEL**

It is assumed the panel's circuits are fault free and the mains and battery are OK. All devices are connected and properly addressed as per the manufacturer's instructions. Do not work on the with the mains connected (it will be necessary to enter access level 2 and mute the charger failure buzzer).

Enter access level 3 and perform a loop learn on the appropriate loop (for the purposes of this guide, we will assume it is Loop 1) using the navigation buttons on the front of the panel (see Appendix 1 for the panel's menu structures).

After a successful loop learn you will have an active one zone (zone 1) "one out, all out" fire alarm system.

All smoke/heat detectors, I/O units, manual call points are in zone 1, all sounders/beacons are in Group 1, and all sets of outputs are completely unassigned with no special cause and effect events.

You cannot assign any descriptive text at the control panel. You require a PC for this. For a full description of the functions available at this level, see Appendix 1 and refer to the main XFP Engineering manual and the Help files embedded in the XFP programming software tools.

## **PROGRAMMING / DOWNLOADING**

With the latest XFP programming software tools loaded, connect the PC to the panel with the correct lead. Enter access level 3 and select 'Connect to PC'. Unless you have already connected the panel's NVM link, a warning to do so will be given when you try to upload to the panel.

On the **Loop Summary** page click **Load Loop 1 From Panel 1**. All the connected devices will be loaded together with the default XFP configuration. The device number and type will be as per figure 2, columns 2 & 3 with the exception of device 36 which needs to be a nonlatching I/O unit.

The **Loop Summary** page is arranged in a simple way to allow speedy input of the required typed data.

The type of device will be automatically inserted in the **Type** column. However, device 36 needs to be changed to a non-latching I/O unit. Select Interface > Non-Latching I/O, click on **Enable Type/Zone changes** and click on device 36 type to change its type.

Click on the **Zone Config** tab (see figure 7, page 9) and type in the appropriate names of the zones from figure 1, page 3. Don't do anything else on the **Zone Config** page but return to the **Loop Summary** page.

Click on **Enable Type/Zone changes** to enable allocation of the correct zone/group/set. Select the appropriate zone/group from this box and click on the zone/group/set column to change the zone/group designation as per figure 2. When finished, unclick **Enable Type/Zone changes** again to disable further changes. Devices with a '+' (multiple function) after them can be edited by clicking on the device number, or right-clicking on the device in the **Loop Summary** page.

 Click on device 1 in the **Dev** column to highlight the device and enter the appropriate text from figure 1. Hit return, and repeat for device 2, etc.

۰Ď:			NE NE Panel 1	Load Loop 1 From Pa	unel 1	Save Loop 1 To Panel 1	
<u> </u>							
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	11.07						
Op	tical	Ionisation He	at <u>C</u> O Multi Callpoir	t <u>S</u> ounder Interface RE	IOVE		
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Loo	Dev	Type	Zone/Group/Set	Device Name	Base Sou	h Loop Type= Apollo 2 Loop	
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1	9	Disc MCP	Zone 2- Ground Floor	Bear Entrance	no		Show summary for
i.	¥	Disc Multi	Zone 2- Ground Floor	Bear Store	no		Loop 1 C Loop 2
i î	11	Disc Opt	Zone 2- Ground Floor	Rear Office	no	E	
1	12	Disc Opt	Zone 3- South Stairs	Detector Head of Stairs	no		Enable Turne (Zono changed
1	13	Sndr/SCU	Group 1	Sounder North Stairs	no		I* chable Type/zone changes
1	14	Disc MCP	Zone 3- South Stairs	Call Point Ground Floor	no		Alarm verification count
1	15+	I/O Unit	Click for I/O Configuration	Vent Control South Stair	no		
1	16	Disc Multi	Zone 4- Warehouse	Roof smoke detector (16)	Group 1		Manual Callpoints 1 🚍
1	17	Disc Multi	Zone 4- Warehouse	Roof smoke detector (17)	Group 1		Interface units
1	18	Disc MCP	Zone 4- Warehouse	Call Point Emergncy Exit	no		
1	19	Disc Multi	Zone 4-Warehouse	Roof smoke detector (19)	Group 1		Detectors 5
1	20	Disc Multi	Zone 4-Warehouse	Roof smoke detector (20)	Group 1		Show zones or groups
1	21	Disc Multi	Zone 4-Warehouse	Roof smoke detector (21)	Group 1		C Zones C Groups
1	22	Disc Multi	Zone 4-Warehouse	Roof smoke detector (22)	Group 1		
1	23	Disc MCP	Zone 4- Warehouse	Call Point Loading Bay	no	_	No. Description
1	24+	I/O Unit	Click for I/O Configuration	Door Release Warehouse	no	-	U Use in Special (
1	20+	Disc Multi	Zana 4 Warehouse	Escape Houle Unlock	riu Group 1	-	2 Cround Floor
1	27+	Zone Mon	Click for I/O Configuration	Call Point and Detectors			3 South Steire
1	28	Disc Multi	Zone 5- Main Office	Detector Main Office	Group 1		4 Warohouso
1	29	Disc Ont	Zone 1- North Stairs	No name allocated	Group 1		5 Main Office
1	30	Disc Ont	Zone 1- North Steirs	No name allocated	Group 1		6 Gents WC
1	31	Disc Ont	Zone 1- North Stairs	No name allocated	no		7 Ladies WC
1	32	Sndr/SCU	Group 1	No name allocated	no		8 Entrance Fover
1	33	Disc Ont	Zone 1- North Stairs	No name allocated	no	-	9 Next Door

The base sounder column is for special information and must be entered on the **Loop 1** page.

Figure 3 shows the **Loop 1** page after device 3 has been right clicked. It is on this page that you will enter specific device special information.

You will note that I/O units can be allocated to sub-addresses and channels as well as being configured to be Input or Output units.

This is a universal drop down screen and it shows the default configuration for an I/O unit. In this example we have used an individual I/O unit for each individual function, this is to keep it as simple as possible.

The only decision that has to be made is whether the unit is an input or an output and the consequential allocation to either a zone or a set. In this scenario, sub-address 0 of device 3 is programmed as an output, assigned to the I/O unit's channel 1 and the panel's Set 1.

If in doubt refer to the Help files embedded in the programming tools.

ŭ 🖻 🖬 🗳 🔭 👌	Load Loop 1 From Panel 1	Save Locp 1 To Panel 1
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Optical Ionisation Heat CO	Muti Calport Sounder Interface REMOVE	
	Zone/Set Sub Address 0 Output      Channel 1      Set 1	Description
DISCOVERY DISCOVERY	Sub Address 1 Not Used  Channel 1  No Zone allocated	→ No name allocated
	Sub Address 2 Not Used  Channel 1  Ne Zone allocated Sub Address 3 Not Used  Channel 1  Ne Zone allocated	No name ellocated  No name ellocated
	✓ Accept	× Cancel

Figure 4 shows the drop down menu for a multi sensor. It can be seen that there are a myriad of settings to choose from depending on the special functions required.

Under sensitivity you can set (because this is a Discovery multi sensor) the different modes of operation for either occupied or unoccupied cases.

You can set the function of the ancillary base sounder (if fitted) by ticking the 'Has Base Sounder' box and allocating it to a sounder group.



Figure 5 shows the default set up of the sounder ringing patterns that will be displayed when the **Group Config** tab is clicked. We have one out all out with no phased delay. The default set up is fine for us.

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<u>نې</u>	<b>&gt;</b>	38	4	× 🔚	1	] Pan Num	ber <sup>1</sup>	•	Load	Group C	Config Fro	om Pane	el 1		Sav	e Group Confi	g To Panel 1	
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		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
Zone 8	4																	

Figure 6 shows the **Set Config.** 

Sets 1&2 are allocated to the smoke vent controllers. The zones ticked are those designated adjacent to the respective staircases.

- Set 3 triggers the adjoining building's panel (zone 9 is unchecked to avoid a 'deadly embrace').

- Set 4 triggers the door releases but is NOT silenceable.

- Set 5 triggers the FREDCO fire escape door release when Zone 9 (next door) is triggered.

Loop Summary Loop 1 Loop 2 Zone Config Group Config Set Config Ste Config C & E Config Network Config View Event Log Comments Not Triggered Pulsed Continuous Delayed Clear All	jų:	8	8 (		4	<u>_</u>		×		Pan Num	el 1 ber 1	•	_	Los	ad Se	et Con	fig Fro	m Pan	el 1	Save Set Config To Panel 1
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Zone 7       X <td>Zone 6</td> <td>X</td> <td>1</td> <td>Θ</td> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>×</td> <td>X</td> <td>X</td> <td>1</td> <td>×</td> <td></td>	Zone 6	X	1	Θ	1	X	X	X	X	X	X	X	X	X	×	X	X	1	×	
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	20.10 0	-	-					1.00											-	

#### Figure 7 shows the **Zone Config** window.

Zone naming was done previously. For a fuller explanation of this page refer to the Help files embedded in the programming tools.

Output delays refer to what happens AFTER the zone has triggered.

Zone dependencies refer to what needs to happen BEFORE the zone will be triggered. This is an important distinction and should not be overlooked. In this example there are no requirements for zonal delays - just dependencies. The default setup for a zone is normal, i.e single knock, no investigation and no occupied/unoccupied preferences. These are shown accordingly. Most zones will be Normal.

it 🍙 🖬		Panel 1 🔹 Load Zone Configurat	tion From Panel 1	Save Zone Configuration	n To Panel 1
oop Summary	Loop 1 Loop 2 Zone Cor	nfig Group Config Set Config Site Config	C & E Config   Network	k Config   View Event Log   Co	mments
	Inp.it Delay : 0*:30	mins Investigation Period: 02:00 🜩 mins	Output E	Delays (mins)Fun	ctioning with
6	Zone Description	Dependency Options	Sounders Relay 1	1 Relay 2 Outpus Dete	ctcrs MCPs
Zone 1	North Stairs	Normal, Click to charge	00:00 \$ 00:00	00:00 🔹 00:00 🔹 Г	
Zone 2	Ground Floor	Normal, Click to charge	00:00 🔹 00:00 🗧	00:00 \$ 00:00 \$	Ē.
Zone 3	South Stcire	Normal, Click to charge	00:00	€ 00:00 € 00:00	
Zone 4	Warehouse	Click for dependency options	C Dependency	Options	
Zone 5	Main Office	Normal, Click to charge	Zone 4		Time to reset
Zone 6	Gents WC	Normal, Click to charge		Dependency Option	Detector Alarm
Zone 7	Ladies WC	Normal, Click to charge	Day (Occupi	ed) A	00:30 🗢 07:00 🌩
Zone 8	Entrance Foyer	Click for dependency options	Night (Unoccupi	ed) Normal 🗾	00:00 🛫 00:00 🚖
Zone 9	Next Door	Normal, Click to charge			10.5
Zone 10	Zone 10	Normal, Click to charge		Accept	× Cancel
Zone 11	Zone 11	Normal, Click to charge		<u></u>	
Zone 12	Zone 12	Normal, Click to charge	00:00 🗢 00:00	€ 00:00 € 00:00 €	Д
Zone 13	Zone 13	Normal, Click to charge	00:00 🚖 00:00 🗧	€ 00:00 € 00:00 €	E.
Zone 14	Zone 14	Normal, Click to charge	00:00 🗢 00:00	00:00	
Zone 15	Zone 15	Normal, Click to charge			Γ.

- There are five dependency options for both occupied and unoccupied modes. For a full explanation of these modes - please read the Help Files. Figure 7 illustrates the dependency for Zone 4 (the warehouse) and its requirement for double knock (type 'A' dependency) during the occupied mode. The adjacent times give times for detector reset and the period in which a double knock is recognised.

For the Zone 8 window (not shown) there is an allocated investigation time which is pertinent to the investigation requirement for the smoke detectors in the entrance foyer.

Figure 8 is the **C&E Events** window which shows the special cause and effect set up for this example. It is usually easier to set up normal C&E requirements using the 'Set Config' page. However, there are cases when this type of setup will not perform the more complicated functions.

This page is manipulated through a series of pull down menus. It is very powerful and should only be used if you know exactly what you are doing.

The equation example shown is to allocate the required operational function of entering the occupied mode when the panel's internal input 1 is activated/shorted (thus emulating a push-to-make switch). The panel will exit occupied mode when it automatically enters 'Unoccupied' mode at the time(s) entered on the **Site Config** page (see figure 9).

Loop Summary         Loop 1         Loop 2         Zone Config         Group Config         Set Config         Site Config         C & E         Config         r           Timer Event         T1         T2         T3         T4         T5         T6         T7         T8         T9         T10         T11         T12         T13           Occurs At         00:00         0	T14 T15 T16 00:00 00:00 00:00 Resets when
Special Cause and Effect even           Timer Event T1         T2         T3         T4         T5         T6         T7         T8         T9         T10         T11         T2         T13           Occurs At         00:00	T14 T15 T16 00:00 [00:00 [00:00 Resets when el Unoccupied ▼
Timer Event T1       T2       T3       T4       T5       T6       T7       T8       T9       T10       T11       T2       T13         Occurs At       00:00	T14 T15 T16 00:00 00:00 00:00 Resets when el Unoccupied ▼
Timer Event         T1         T2         T3         T4         T5         T6         T7         T8         T9         T10         T11         T         T1         T2         T13           Occurs At         00:00	T14 T15 T16 00:00 00:00 00:00 Resets when el Unoccupied ▼ - TRUE ▼
Occurs At 100:00         <	Resets when
Event     Action     Occurs when       1     Setto Occupied         2     No Event Here         3     No Event Here         4     No Event Here         5     No Event Here         6     No Event Here	Resets when
1     Set to Occupied       2     No Event Here       3     No Event Here       4     No Event Here       5     No Event Here       6     No Event Here	el Unoccupied 💌
No Event Here       •         3       No Event Here       •         4       No Event Here       •         5       No Event Here       •         6       No Event Here       •	
No Event Here	
No Event Here       No Event Here       No Event Here	
6 No Event Here	
7 No Event Here -	
8 No Event Here -	
9 No Event Here -	
10 No Event Here -	

There are many other functions that can be implemented, refer to the Help files embedded in the programming tools for details.

Figure 9 shows the **Site Config** page. It is on this page that general site information is entered.

The occupied/unoccupied mode is normally entered here. In this scenario we are set up to enter the unoccupied (night) mode automatically. It is clear that the occupied (day) mode could be entered automatically as well but in this case the requirement was for manual entry as described immediately above. Note, the effect of ticking Sat and Sun is zero but is included in case somebody enters the building unexpectedly, say to do overtime on a Saturday, and hits the Occupied switch.

- The maintenance date will only be uploaded if this box is checked.

The rest of the screen should be self-explanatory. For a fuller explanation of this and the non-reviewed screens please go to the Help files embedded in the programming tools.

Eile	Settings Help	
D.	▶ 🕞 🖳 🛓 🔭 🎦 🖓 Number 1 🔹 _	Load Site Config From Panel 1 Save Site Config To Panel 1
Loo	p Summary   Loop 1   Loop 2   Zone Config   Group Config   Se	at Config Site Config C & E Config Network Config View Event Log Comments
	Clients Name :	Installers Name :
	Clients Address	Installers Address :
		-
	Postcode :	Postobe.
	Location of Panel:	Engineers Name :
	Software Version: Not Available	Service Number:
	Normal String: XFP Fire Panel	MTWTFSS
	Maintenance String : Call the Engineer Maintenance Date : 04/08/2009 Send To Pane	UCcupied (Day) begins at UU:UU
	Selid to Pale	Unoccupied (Night) begins at: 18:00 - VVVVVV
	15:35:23 04/08/2009 Access Le	Recalibrate at: + 04:00
2	Send To Panel?	Enable Discovery Polling   Ef

## **FINISHING**

On the **Loop Summary** page click **Save Loop 1 to Panel 1** to upload all pages of information to the panel.

Remove the NVM link and the lead from the PC to the panel.

Escape access level 3 to return the panel to normal mode.

Close the panel lid and reconnect the mains.

The system is now fully programmed as per the specification.

FOR MORE DETAILED INFORMATION READ THE MAIN XFP ENGINEERING MANUALS AND THE HELP FILES EMBEDDED IN THE PROGRAMMING TOOLS.

#### APPENDIX 1 : OVERVIEW OF MENU OPTIONS @ ACCESS LEVELS 1, 2 & 3

