## XFP 1-2 LOOP NETWORKABLE ADDRESSABLE FIRE PANELS



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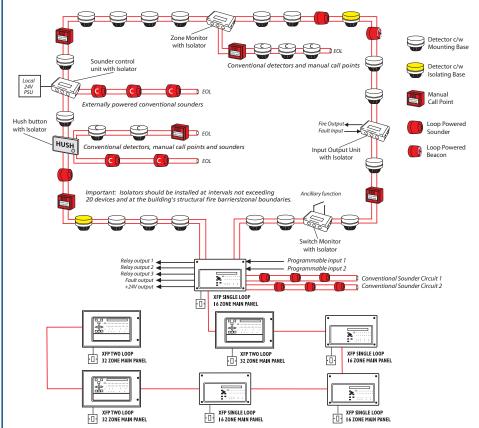
Certified to EN54 parts 2 & 4 by the LPCB, the XFP Range of addressable fire panels offers high performance at a competitive price. Available in two different versions (a cost-effective single loop 16 zone panel in a plastic enclosure and a robust 1 or 2 loop 32 zone metal panel), the range offers an array of user and installer-friendly features.

#### **Key Features**

- Third-party certified to EN54 parts 2 and 4 by the LPCB.
- Full compatibility with the Context Plus range of fire detectors, call points, sounders, beacons and control modules.
- Three access levels 1 (general), 2 (authorised user) and 3 (engineer)
- Combined keypad/keyswitch entry to access levels 2 and 3
- The ability to interconnect up to eight XFP main panels (any variant) plus an additional four XFP repeater panels per main onto a two wire RS485 network.
- Two independently programmable conventional sounder circuits.
- Two programmable inputs.
- A fault output relay and three programmable relay outputs with voltage free changeover contacts.
- Three zone dependency functions (A, B & C to EN54-2 Clause 7.12)
- A day/night (building occupied/unoccupied) function.
- An investigation delay period function.
- Individual sensitivity settings for each device.
- A phased evacuation and delays to outputs facility (to EN54-2 Clause 7.11)
- An alarm counter that records the number of times the panel has been in an alarm state (to EN54-2 Clause 7.13).
- Powerful short circuit protected loop drivers, capable of supporting up to 40 loop powered 10mA sounders per loop.
- An integral EN54 switch mode PSU rated @ 185-260V a.c. 50/60Hz (3A on 32 zone panel, 1.4A on 16 zone panel).
- Adjustable contamination levels.
- Earth fault monitoring.
- Push button access code or keyswitch entry to Access Levels 2 and 3 (depending on model purchased).
- An easy to read, 80 character back-lit display.
- 40 characters of custom text per device.
- 999 event monitoring.
- Comprehensive test facilities (to EN54-2 Clause 10) and a wide range of maintenance and commissioning functions including auto-learn loops, monitor a point, test outputs, one man walk test and loop continuity test).
- An intuitive Windows based upload-download PC program that allows the system to be programmed quickly and easily.

Below is a diagram of a typical Context Plus analogue addressable loop fitted with a selection of detectors, loop powered sounders, modules and isolators, all connected to an XFP single loop 16 zone panel.

The diagram also illustrates how a series of XFP main panels can be networked using the range's powerful RS485 network.



This diagram is provided for illustration purposes only and you should always refer to the relevant XFP panel/device instructions as appropriate before installation.

Note that the descriptions and availability of the devices shown may not be applicable to all manufacturer's protocols.

#### FEATURES OF THE XFP'S NETWORK PROTOCOL

The XFP's network protocol allows the interconnection of up to eight XFP main panels (any mix) over a two-wire RS485 network. Alternatively, the network can be used to connect up to eight XFP repeaters to one XFP main panel. It is not possible to mix XFP main panels and repeaters on the same network.

Context

#### Key features of the XFP's network protocol when used for interconnecting XFP main panels:

- Allows the interconnection of up to eight XFP main panels (any mix of single loop 16 zone XFPs and 1 and 2 loop 32 zone XFPs)
- Up to 1 km of cable may be fitted to an XFP main panel network.
- Each networked XFP main panel can be programmed to accept Fires, Faults and actions such as Silence Alarm Sounders and Panel Reset from other main panels. They will also Accept Disablement commands for zones, sounders and output sets from other main panels.
- All panels monitor all other panels for network wiring faults.
- Fires on remote panels are displayed on local panels including the point description of the alarm's origin.
- Faults on remote panels are displayed on local panels including the point description of detectors.
- The network supports the programming of data into remote panels from a PC at a local panel
- Time/date is common to all networked panels.
- All networked main panels require a network communication card

## Key features of the XFP's network protocol when used for connecting XFP repeaters

- Allows the connection of up to eight XFP repeaters to one non-networked main panel. The XFP main panel must have a network communication card fitted.
- Up to 500m of cable may be fitted to an XFP repeater network.
- Each XFP repeater offers all the functions and controls of an XFP main panel.

#### **XFP ORDER CODES**

XFP501E/X/CON	XFP Networkable single loop 16 zone panel. Keypad/keyswitch entry, c/w 1.4A psu, plastic enclosure	
XFP501/X/CON	XFP Networkable one loop 32 zone panel. Keypad/keyswitch entry, c/w 3A psu, metal enclosure	
XFP502/X/CON	XFP Networkable two loop 32 zone panel. Keypad/keyswitch entry, c/w 3A psu, metal enclosure	
XFP510-16/CON	XFP Networkable repeater panel, 16 zones. Keypad/keyswitch entry, c/w psu, plastic enclosure	
XFP510-32/CON	XFP Networkable repeater panel, 32 zones. Keypad/keyswitch entry, c/w psu, metal enclosure	
CFP761	XFP network communication card for XFP 16 zone main panels	
AFP711	XFP network communication card for XFP 32 zone main panels	
AFP385	Flush mount bezel for XFP 32 zone main & repeaters	
XFP507	XFP Upload download software kit (all protocols). Windows compatible. Includes programming lead	
AFP709	XFP off-board printer kit	

Notes: One network communication card is required per networked main panel. Repeaters are supplied with a network communication card already fitted. XFP 16 zone panels are designed so they can be surface or semi-flush mounted without the need for an additional bezel.



# XFP 1-2 LOOP NETWORKABLE ADDRESSABLE FIRE PANELS

P Technical Specifications Power Supply Specification	SINGLE LOOP 16 ZONE XFP PANELS XFP501E/X/CON	ONE OR TWO LOOP 32 ZONE XFP PAN XFP501/X/CON XFP502/X/CON
Mains supply	230V a.c. ± 10% 50/60Hz. Max current 350mA	230V a.± 10% 50/60Hz. Max current 680mA
nternal power supply	27V d.c Nominal	27V d.c Nominal
Total output current limited to	1.4A @ 230V a.c.	3A @ 230 V a.c.
Supply and battery charger monitored for failure	Yes	Yes
Batteries monitored for disconnection and failure	Yes	Yes
Batteries protected against deep discharge	Yes	Yes
Max. battery size and type	3.2 Ahr VRLA	7.0 Ahr VRLA
Specified batteries for LPCB approved systems Quiescent current drain (1 loop unloaded)	2 x Yuasa NP3.2-12 < 50mA	2 x Yuasa NP7-12 < 80mA
Quiescent current drain (1 loop unloaded) Quiescent current drain (2 loop unloaded)	not applicable	< 80MA <100mA
Earth fault monitoring	Yes (any conductor)	Yes (any conductor)
Temperature compensated charging	Yes	Yes
	163	165
Loop Driver Specification		
Number of loop drivers	1	1 (XFP501/X/CON)
		2 (XFP502/X/CON)
ine monitored for open and short circuit faults	Yes	Yes
Onboard loop isolators with LED indication when active	Yes	Yes
Auto-polling from each loop end	Yes	Yes
Nax. loop output current	500mA (Voltage: 25V min, 34V max)	500mA (Voltage: 25V min, 34V max)
Nax. number of addressable devices per loop	126	126
Max. number of loop powered sounders per loop @ 10mA	40	40
Number of programmable sounder groups	16	16
lumber of programmable output sets	16	16
Conventional Sounder Circuit Specificatior		
lumber of programmable circuits	2	2
nd of line resistor value	6800 Ω 5% Tol. 0.25 W	6800 Ω 5% Tol. 0.25 W
ine monitored for open and short circuit faults	Yes	Yes
Dutputs fused at	400mA	400mA
Max. number of sounders @ 20mA	40011A	80
	40	00
Auxiliary Outputs		
уре	Relay voltage free sing	
Iax switching current	1A	
Nax switching voltage	30 V	
telay 1	Programmed from	
telay 2	Programmed from	cause and effect
Relay 3	Programmed from	
Fault		
aut	Active when no fa	ults are present
24V' Aux Power Output Auxiliary Inputs	19.5V min, 28V max. Max current 100mA.	Protected by resettable overload circuit
24V" Aux Power Output Auxiliary Inputs Input 1 Input 2		Protected by resettable overload circuit ion-latching). Programmable from cause and effect.
24V' Aux Power Output Auxiliary Inputs Input 1	19.5V min, 28V max. Max current 100mA. Connect to 0V to trigger. Max input voltage 27V d.c. (r	Protected by resettable overload circuit ion-latching). Programmable from cause and effect.
24V' Aux Power Output Auxiliary Inputs nput 1 nput 2 Fuses (to IEC - EN60127 Pt2) Mains Fuse	19.5V min, 28V max. Max current 100mA. Connect to 0V to trigger. Max input voltage 27V d.c. (r Connect to 0V to trigger. Max input voltage 27V d.c (r 1A HRC Ceramic 20mm	Protected by resettable overload circuit non-latching). Programmable from cause and effect. non-latching). Programmable from cause and effect. 1A HRC Ceramic 20mm
24V' Aux Power Output Auxiliary Inputs nput 1 nput 2 Euses (to IEC - EN60127 Pt2) Mains Fuse	19.5V min, 28V max. Max current 100mA. Connect to 0V to trigger. Max input voltage 27V d.c. (r Connect to 0V to trigger. Max input voltage 27V d.c (r	Protected by resettable overload circuit ion-latching). Programmable from cause and effect. ion-latching). Programmable from cause and effect.
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24V' Aux Power Output Auxiliary Inputs Input 1 Input 2 FUSES (to IEC - EN60127 Pt2) Aains Fuse Iattery Fuse - limits the current drawn from the battery Panel Indicators and Controls Control buttons	19.5V min, 28V max. Max current 100mA. Connect to 0V to trigger. Max input voltage 27V d.c. (r Connect to 0V to trigger. Max input voltage 27V d.c (r 1A HRC Ceramic 20mm 1.6A F 20mm Silence, Reset, Resound, Investig	Protected by resettable overload circuit ion-latching). Programmable from cause and effect. ion-latching). Programmable from cause and effect. 1A HRC Ceramic 20mm 3.15A F 20mm ate; More Information; Menu
24V' Aux Power Output Auxiliary Inputs Apput 1 Apput 2 Fuses (to IEC - EN60127 Pt2) Aains Fuse Fuse - limits the current drawn from the battery Panel Indicators and Controls Control buttons Event scrolling and menu access buttons	19.5V min, 28V max. Max current 100mA. Connect to 0V to trigger. Max input voltage 27V d.c. (r Connect to 0V to trigger. Max input voltage 27V d.c (r 1A HRC Ceramic 20mm 1.6A F 20mm Silence, Reset, Resound, Investig Up (1); Down (2); Ac	Protected by resettable overload circuit ion-latching). Programmable from cause and effect. ion-latching). Programmable from cause and effect. 1A HRC Ceramic 20mm 3.15A F 20mm ate; More Information; Menu cept (3); Abort (4)
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AV' Aux Power Output           Auxiliary Inputs           apput 1           apput 2           USES (to IEC - EN60127 Pt2)           Tains Fuse           attery Fuse - limits the current drawn from the battery           Control buttons           went scrolling and menu access buttons           quid Crystal Display           umber of Zonal LED indicators           ther LED indicators           Physical Dimensions           pprox. dimensions of back box (W x H x D)           pprox. dimensions of back box (W x H x D)           pprox. dimensions of back box (W x H x D)           pprox. dimensions of back box (W x H x D)           pprox. dimensions of back box (W x H x D)           pprox. dimensions of lid (W x H x D)           pprox. weight (without batteries)           Cabling Requirements           ype of cable           fax. allowable loop impedance (each conductor)           fax. cable capacitance           Ietwork Specification           onnection           Max. no. of main panels per network           fax. cable length per network	19.5V min, 28V max. Max current 100mA. Connect to 0V to trigger. Max input voltage 27V d.c. (r Connect to 0V to trigger. Max input voltage 27V d.c (r 1A HRC Ceramic 20mm 1.6A F 20mm Silence, Reset, Resound, Investig Up (1); Down (2); Ac Two lines x 40 cha 16 General Fire, System Energised; Pre-Alarm; Remote Test; Remote Output Disabled; Silence 380 x 235 x 77mm (plastic). Includes 'lip'. 380 x 235 x 16mm (plastic) 1.9Kg Fire resistant screened cab Kin Plug-on type, largest accepta 20 s .27L Via CFP761 network driver card fitted at main panel 8 1km (main panel network); 500m (repeater network) Via main panel R5232 molex connector (lead sup	Protected by resettable overload circuit ion-latching). Programmable from cause and effect. ion-latching). Programmable from cause and effect. 1A HRC Ceramic 20mm 3.15A F 20mm ate; More Information; Menu cept (3); Abort (4) iracters, backlit 32 Output Activated; Menus Accessed; Disablement; ced; General Fault; System Fault; 410 x 250 x 80mm (metal) 439 x 274 x 7mm (metal) 439 x 274 x 7mm (metal) 4.5kg ble, minimum size 1mm <sup>2</sup> n ble conductor size 1.5mm <sup>2</sup> 2 iF Via AFP711 network driver card fitted at main panel 8 1 km (main panel network); 500m (repeater network plied in XFP507 upload/download software kit)
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