



I or 2 loop EN54

networkable analogue

addressable fire panels



# I or 2 loop EN54 networkable analogue addressable fire alarm panels

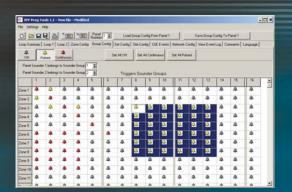




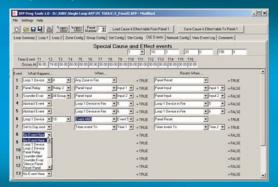
XFP single loop 16 zone panel



XFP 1 or 2 loop 32 zone panel



Sophisticated sounder group mapping (above) and complex cause and effect scenarios (below) can be easily implemented using the XFP's intuitive upload-download programming software.



Fully compliant with EN54 parts 2 & 4, C-TEC's new range of networkable analogue addressable fire panels offer high performance at a very 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), they offer an array of user and installer-friendly features, including:-

- Full compatibility with Hochiki's ESP and Apollo's XP95, Discovery and Xplorer protocols
- The ability to interconnect up to eight XFP main panels (any variant) plus an additional four XFP repeaters per main onto two wire RS485 networks
- Two independently programmable conventional sounder circuits
- ▶ Two programmable inputs
- A fault output relay and three programmable relay outputs with voltage free changeover contacts
- A selection of zone dependency/coincidence functions (allows zones to be individually programmed to be Type A, B or C. Selecting 'Type A' sets the zone up so no action will be taken on the first detected alarm unless there is confirmatory signal from another zone. Selecting 'Type B' sets the zone up so the first detected alarm will be indicated, but a full fire condition will only be established if there is a confirmatory signal from the same zone. Selecting 'Type C' sets the zone up so the panel enters a fire condition on the first detected alarm but certain outputs are inhibited until a confirmatory alarm).
- ▶ A day/night (building occupied/unoccupied) function (allows the operational characteristics of the panel to be changed at a pre-determined time. Engineer programmable day/night changes include detector sensitivity (high/low) and zone dependency settings)
- An investigation delay period function (programmable for length of time, which zone(s) it applies to and whether or not it operates in day/night mode)
- Individual sensitivity settings for each device
- ▶ A phased evacuation facility
- An alarm counter that records the number of times the panel has been in an alarm state (to meet clause 7.13 of EN54-2)
- 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 (1.4A on 16 zone panel, 3A on 32 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, maintenance & 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

# XFP Technical Specifications

Enterval potential processor and processor a	Power Supply Specification	SINGLE LOOP 16 ZONE XFP PANELS  XFP501E/X; XFP501EK/X  XFP501E/H; XFP501EK/H	One or Two Loop 32 Zone XFP Panels XFP501/X; XFP501K/X; XFP502/X; XFP502K/X; XFP501/H; XFP501K/H; XFP502/H; XFP502K/H
The an object of the content of the	Mains supply voltage	230V a.c. + 10% 50/60Hz	230V a + 10% 50/60Hz
The standard convent infinition to the control of processing of the control of processing and better processing medium of processing and better processing and better processing and the control of processing and the control of the c		·	
Balleries protected growing and callered with the control of the c			
Batteries protected against deep decharge  Wes  1. Jahr Vill. A. 7. Abr Vill. Ab	Supply and battery charger monitored for failure	Yes	Yes
Six bothery des and type  (Section Current (and) Chep principles (Section Current) and Chep principles (Section Current) (Section Cu		1	
Successed current famil 2 long unlocated) Sent lacet from the 2 long unlocated) Sent lacet from the 2 long unlocated on the confidence of the controlled on			
Selection current data of loss undecided processes and according to the processes of the land method of the processes of the land of the l			
Farth fault monthaling Temporature componented charging Wes beyon conducted) Ves to Ves Ves Ves Ves Ves Ves Ves 1 1 1 007590LX; XF75910X, XF7591XXX XF7591XX X			
Nest		***	
Dop Driver Specification   1   1 OFFSQLX; XFPSQLXX, XF		-	
Number of loop drivers  1	Loop Driver Specification		
Discretions of the process with ED indication when active Ves Auto politic from each large end Auto polity from end Auto pol		1	· · · · · · · · · · · · · · · · · · ·
Onesent bop feliators with EED inflication when active Max. loop output current Max. loop output	Line monitored for open and short circuit faults	Yes	
Max. Insurber of darkeroschie devices per loop    126		1	
Max. number of addressable devices per loop  Max. number of programmable convolved products  Number of programmable convolved products  15 15  Conventional Sounder Circuit Specification  Number of programmable convolved products  16 16  Number of programmable convolved products  16 16  Conventional Sounder Circuit Specification  Number of programmable convolved products  16 2 2  16 30 0.2.5% Tol. 0.25 W 6800 0.2.5% Tol. 0.25 W 6800 0.2.5% Tol. 0.25 W 7800 0.2.5% W 7800 0.2.	Auto-polling from each loop end	Yes	Yes
Max. marbor of loop powered sounders per loop @ 10mA   40   40   30   30   30   30   30   30			
Number of programmable soutured services    Same of programmable soutured services   15   15   16   16   16   16   16   16		-	
Number of programmable circuits			· · · · · · · · · · · · · · · · · · ·
Conventional Sounder Circuit Specification  Number of programmable circuits  2 2 3 4 8600 (2.5% Tol. 0.25 W			
Auxiliary Disputs   2   2   6.00 Q 5% Tol. 0.25 W   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state of the residence value   6.00 Q 5% Tol. 0.25 W   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state of the residence value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state of the residence value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state of the residence value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state of the residence value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state of the residence value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state of the residence value value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state value value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state value value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state value value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state value value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state value value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs from a state value   6.00 Q 5% Tol. 0.25 W   Fee doubter disputs   6.		10	16
End of file resistor value  Line monitored for open and short circuit faults  Ves  Ves  Ves  Outputs fixed at  Auxiliary Outputs  Jope  Relay voltage five single pole changeover  Max. number of sounders @ 20mA  Auxiliary Outputs  Pelay voltage five single pole changeover  Max switching current  Max switching current  Max switching unrent  Max switching voltage  Relay 2  Programmed from cause and effect  Active when no faults are present  Connect to 0V to trigger. Max input voltage 22V d.c. (non-latching). Programmable from cause and effect.  Pruses (to IEC - ENGO127 Pt2)  Makin Flue  1 A HRC Ceranic 20mm  Sake 7 20mm  Sake 7 20mm  Sake 7 20mm  JA HRC Ceranic 20mm  Sake 7 20mm  Sake 7 20mm  JA HRC Ceranic 20mm  JA		2	2
Auxiliary Outputs  Type  Max sutching voltage free single pole changeover  Max sutching voltage  Relay voltage free single pole changeover  Max sutching voltage  Programmed from cause and effect  Active when no faults are present  24V Aux Power Output  Connect to OV to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect  Input 1  Connect to OV to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  Input 2  Connect to OV to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  Fuses (to IEC - EN60127 Ptz)  Mains five  1A HRC Ceramic 20mm  Battery Fuse  3A F 70mm  Panel Indicators and Controls  Control buttons  Silence, Reset, Resound, Investigate; More Information; Menu  Up (1), Down (2), Accept (3), Abort (4)  Linguist Cystal Bolten  Fuses (to IEC - EN60127 Ptz)  Control buttons  Silence, Reset, Resound, Investigate; More Information; Menu  Up (1), Down (2), Accept (3), Abort (4)  Dumber Pool ILED indicators  General Fire, System Energice; Pre-Alarm, Remote Output Activates; Menus Accessed; Disablement;  Test; Remote Output Disabled; Silenced; General Fault; System Fault;  Physical Dimensions  Approx. dimensions of bit (W N H x D)  380 x 225 x 77mm (plastic). Includes 'lig'.  410 x 250 x 80mm (metal)  Approx. dimensions of bit (W N H x D)  380 x 255 x 77mm (plastic). Includes 'lig'.  410 x 250 x 80mm (metal)  Acception, dimensions of bit (W N H x D)  380 x 255 x 77mm (plastic). Includes 'lig'.  410 x 250 x 80mm (metal)  Approx. dimensions of bit (W N H x D)  380 x 255 x 77mm (plastic). Includes 'lig'.  410 x 250 x 80mm (metal)  Approx. dimensions of bit (W N H x D)  380 x 255 x 77mm (plastic). Includes 'lig'.  A 5 Mg  Alarmore output Disabled; Silenced; General Fault; System Enum'  Max. cable length per lo			
Auxiliary Outputs  Jose  Relay voltage free ringle pole changeover  Auxiliary Outputs  Jose  Relay voltage free ringle pole changeover  Auxiliary Outputs  Jose  Relay voltage free ringle pole changeover  Auxiliary Outputs  Programmed from cause and effect  Programmed from cause and effect  Pelay 3  Programmed from cause and effect  Pelay 3  Programmed from cause and effect  Active when no faults are present  24V Aux Power Output  100mA. Protected by resettable overload circuit.  Auxiliary Inputs  Input 1  Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  Fuses (to IEC - EN60127 Pt2)  Mains Fuse  1A HRC Ceramic Comme  Sattery Fuse  1A HRC Ceramic Comme  Battery Fuse  1A HRC Ceramic Comme  Auxiliary Inputs  Silence, Reset, Resound, Investigate; More Information; Menu  Battery Fuse  Panel Indicators and Controls  Control buttons  Silence, Reset, Resound, Investigate; More Information; Menu  Event scrolling and menu access buttons  Up (1): Down (2): Accept (3); Abort (3)  Liquid Crystal Display  No lines x 40 characters.  Fuse x 40 characters.  General File, System Energied; Pre-Alarm; Remate Output Activated, Menus Accessed, Disablement;  Test; Remate Output Disabled; Silenced, General Fault; System Fault;  Physical Dimensions  Approx. dimensions of back box (W x H x D)  380 x 255 x 77mm (plastic). Includes 'lip'.  410 x 250 x 80mm (metal)  Approx. dimensions of back (W x H x D)  380 x 255 x 77mm (plastic). Includes 'lip'.  Approx. dimensions of back box (W x H x D)  380 x 255 x 80mm (plastic). Includes 'lip'.  Approx. dimensions of back box (W x H x D)  380 x 255 x 80mm (plastic). Includes 'lip'.  Approx. dimensions of back box (W x H x D)  380 x 255 x 80mm (plastic). Includes 'lip'.  Als (A dispression)  Approx. dimensions of back box (W x H x D)  380 x 256 x 80mm (plastic). Includes 'lip'.  Approx. dimensions of back box (W x H x D)  380 x 257 x 7mm (plastic). Includes 'lip'.  Approx. dimensions of back box (W x H x D)  380 x 257 x 7mm (plastic). Includes	Line monitored for open and short circuit faults	Yes	Yes
Auxiliary Outputs  Type  Max witching current  Max witching votage  Programmed from cause and effect  Relay 1  Programmed from cause and effect  Relay 2  Programmed from cause and effect  Relay 2  Programmed from cause and effect  Relay 2  Programmed from cause and effect  Relay 3  Active when no faults are present  Active when no faults are present  Active when no faults are present  Auxiliary Inputs  Input 1  Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  Input 2  Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  Input 2  Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  Input 2  Auxiliary Inputs  Input 2  Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  Input 2  A HRC Ceramic 20mm  Battery Fuse  JA HRC Ceramic 20mm  Battery Fuse  JA F 20mm  Panel Indicators and Controls  Control buttons  Silence, Reset, Resound, Investigate; More Information; Menu  Up (1), Down (2); Accept (3), Abort (4)  Liquid Crystal Display  And F 20mm  Battery Fuse  General Fire, System Energised; Pre-Alarm; Bente Output Activated, Menus Accessed; Disablement;  Text, Remote Output Disabled; Silenced, General Fault; System Fault;  Physical Dimensions  Apprax. dimensions of hack box (W x H x D)  380 x 235 x 7mm (plastic). Includes 'lip'.  410 x 250 x 80mm (metal)  Apprax. dimensions of his (W x H x D)  380 x 255 x 7mm (plastic). Includes 'lip'.  A 10 x 250 x 80mm (metal)  Apprax. dimensions of his (W x H x D)  380 x 255 x 10mm (plastic). Includes 'lip'.  A 10 x 250 x 80mm (metal)  Apprax. dimensions of his (W x H x D)  380 x 255 x 10mm (plastic). Includes 'lip'.  A 10 x 250 x 80mm (metal)  Apprax. dimensions of his (W x H x D)  380 x 255 x 10mm (plastic). Includes 'lip'.  A 10 x 250 x 80mm (metal)  Apprax. dimensions of his (W x H x D)  380 x 255 x 10mm (plastic). Includes 'lip'.  A 10 x 250 x 80mm (metal)  A 250 x			
Relay voltage free single pole changeover Mas switching current Mas switching voltage Relay 1  Programmed from cause and effect Pelay 2  Programmed from cause and effect Pelay 3  Programmed from cause and effect Pault Active when no faults are present Active Active when no faults are present Active Active Active Active Active Active Active Acti	Max. number of sounders @ 20mA	40	50
Mas switching current Mas switching votage Belay 1 Belay 2 Programmed from cause and effect Belay 3 Programmed from cause and effect Belay 3 Programmed from cause and effect Belay 3 Programmed from cause and effect Active when no faulty Ave when no faulty Ave when no faulty Active when no faulty Belay 2 Connect to OV to trigger. Max input voltage 2TV d.c. (non-latching). Programmable from cause and effect.  Fuses (to IEC - EN60127 Pt2)  Mains Fuse  1A HRC Ceramic 20mm Battery Fuse  1A HRC Ceramic 20mm  Battery Fuse  1A HRC Ceramic 20mm  Battery Fuse  3A F 20mm  Panel Indicators and Controls  Control buttons  Up (1); Down (2); Accept (3); Abort (4) Liquid (Trystal Display Non lines x 40 claracters, backlit Test Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silence, General Fault; System Fault; Physical Dimensions  Approx. dimensions of list (W x H x D) 380 x 235 x 77mm (plastic). Includes 'lip'. 410 x 250 x 80mm (metal) Approx. dimensions of list (W x H x D) 380 x 235 x 77mm (plastic). Includes 'lip'. 410 x 250 x 80mm (metal) Approx. weight (without batteries)  Fire resistant screened cable, minimum size Imm' Max. cable length per loop 1 KM Aca. allowable loop impedance (each conductor) Max. cable length per loop 1 KM Acan of repeaters per main panel Max. no. of main panels per network Max. no. of main panels per network Max. no. of mepaters per main panel Max. no. of repeaters per main panel	Auxiliary Outputs		
Max switching voltage Relay 1 Programmed from cause and effect Relay 2 Programmed from cause and effect Relay 3 Relay 1 Relay 3 Relay 1 Relay 3 Relay 1 Relay 3 Relay 3 Relay 1 Relay 3 Relay 3 Relay 1 Relay 3 Relay 3 Relay 3 Relay 4 Relay 3 Relay 4 Relay 3 Relay 6 Relay 6 Relay 3 Relay 6 Relay 6 Relay 6 Relay 7 Relay 7 Relation 1 Relation	Туре	Relay voltage free sin	gle pole changeover
Relay 1 Programmed from cause and effect Relay 2 Programmed from cause and effect Relay 3 Programmed from cause and effect Relay 3 Programmed from cause and effect Relay 3 Relay 1 Active when not autis are present Relay 2 Relay 3 Relay 1 Relay 1 Relay 2 Relay 3 Relay 2 Relay 3 Relay 2 Relay 3 Relay 3 Relay 4 Relay 4 Relay 4 Relay 5 Relay 3 Relay 6 Relay 6 Relay 6 Relay 7 Relation Cause and effect Relay 7 Relation Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Relation Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Relation Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Relation Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Relation Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Relation Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Relation Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Relation Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Relation Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Relation Connector Includes 20 Non-latching. Relation Connector Includes 3 Non-la			
Relay 2 Programmed from cause and effect Relay 3 Programmed from cause and effect Fault Active when no faults are present 24V Aux Power Output 100mA. Protected by resettable overload circuit.  Auxiliary Inputs Input 1 Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Input 2 Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Input 2 Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  Fuses (to IEC - EN60127 Pt2) Mains Fuse 1A HRC Ceramic 20mm Battery Fuse 1A HRC Ceramic 20mm Battery Fuse Panel Indicators and Controls  Control buttons Silence, Reset, Resound, Investigate; More Information; Menu Event scrolling and menu access buttons Up (1): Down (2): Accept (3): Abort (4) Liquid Crystal Display Two lines x 40 classes, backlit Number of Zonal LED indicators General Fire, System Energietae Upput Activated; Mena Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;  Physical Dimensions  Approx. dimensions of back box (W x H x D) 380 x 235 x 77mm (plastic). Includes 'lip'. 410 x 250 x 80mm (metal) Approx. dimension of lid (W x H x D) 380 x 235 x 16mm (glastic) 1.9Kg 4.10 x 250 x 80mm (metal) Approx. dimension of lid (W x H x D) 380 x 235 x 16mm (glastic) 1.9Kg 4.10 x 250 x 80mm (metal) Approx. dimension of lid (W x H x D) 380 x 235 x 16mm (glastic) 1.9Kg 4.10 x 250 x 80mm (metal) Approx. dimension of lid (W x H x D) 380 x 235 x 16mm (glastic) 1.9Kg 4.10 x 250 x 80mm (metal) Approx. dimension of lid (W x H x D) 380 x 235 x 16mm (glastic) 1.9Kg 4.10 x 250 x 80mm (metal) Approx. dimension of lid (W x H x D) 380 x 235 x 16mm (glastic) 1.9Kg 4.10 x 250 x 80mm (metal) Approx. dimension of lid (W x H x D) 380 x 235 x 16mm (glastic) 1.9Kg 4.10 x 250 x 80mm (metal) Approx. dimension of lid (W x H x D) 380 x 235 x 16mm (glastic) 1.9Kg 4.10 x 250 x 80mm (metal) Approx. dimension of lid (W x H x D) 380 x 235 x 16mm (glastic) 1.9K			
Programmed from cause and effect			
Fault 24V Aux Power Output 100mA. Protected by resettable overload circuit.  Auxiliary Inputs  Input 1 Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Input 2 Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  FUSES (to IEC - EN60127 Pt2)  Mains Fuse 1 A HRC Ceramic 20mm Battery Fuse 3 A F 20mm  Panel Indicators and Controls  Control buttons Up (1); Down (2); Accept (3); Abort (4) Liquid Crystal Display Two lines x 40 characters, backlit Number of 20 and LED indicators  General Fire, System Energised; Pre-Alarm, Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;  Physical Dimensions  Approx. dimensions of back box (W x H x D) 380 x 235 x 77mm (plastic). Includes 'lip'. Approx. dimensions of back box (W x H x D) 380 x 235 x 16mm (plastic) 439 x 274 x 7mm (metal) Approx. dimensions of back box (W x H x D) 380 x 235 x 16mm (plastic) 1.9Kg  Cabling Requirements  Type of cable Fire resistant screened cable, minimum size 1mm' Max. cable length per loop 1 KM Max. cable length per loop 1 LKM Max. cable length per loop 1 LKM Max. cable length per network 1 KM (daisychain configuration) 1 KM (daisychain configuration)  1 KM (daisychain configuration)			
Auxiliary Inputs  Input 1 Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Input 2 Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Input 2 Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  FUSCS (to IEC - EN60127 Pt2)  Mains Fuse  1A HRC Ceramic 20mm  Battery Fuse 3A F 20mm  Panel Indicators and Controls  Control buttons Silence, Reset, Resound, Investigate; More Information; Menu Event scrolling and menu access buttons Up (1); Down (2); Accept (3); Abort (4)  Liquid Crystal Display Number of Zonal LED Indicators General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accesed; Disablement; Test; Remote Output Disabled, Silenced; General Fault; System Facult; Physical Dimensions  Approx. dimensions of Back box (W x H x D) 380 x 235 x 77mm (plastic). Includes 'lip'. 410 x 250 x 80mm (metal) Approx. dimensions of lid (W x H x D) 380 x 235 x 16mm (plastic). Includes 'lip'. 4.5kg  Cabling Requirements Type of cable Fire resistant screened cable, minimum size 1mm' Max. cable length per loop 1 KM Max. cable length per loop Plug-on type, largesta cacepitable conductor size 1.5mm' Max. aclie capacitance Plug-on type, largesta cacepitable conductor size 1.5mm' Max. cable capacitance Via CFP761 network driver card fitted at main panel Max. no. of main panels per network Nax. no of repeaters per main panel Max. no. of main panels per network Nax. cable length per network		<u> </u>	
Input 1 Connect to OV to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect. Connect to OV to trigger. Max input voltage 27V d.c. (non-latching). Programmable from cause and effect.  FUSES (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  1A HRC Ceramic 20mm Battery Fuse 3A F 20mm  Panel Indicators and Controls  Control buttons Silence, Reset, Resound, Investigate; More Information; Menu Event scrolling and menu access buttons Up (1); Down (2); Accept (3); Abort (4) Liquid Crystal Display Two lines x 40 characters, backlit Number of Zonal LED indicators  6 General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test, Remote Output Disabled; Silenced, General Fault; System Fault;  Physical Dimensions  Approx. dimensions of back box (W x H x D) 380 x 235 x 7mm (plastic). Includes 'lip'. 410 x 250 x 80mm (metal) Approx. weight (without batteries)  2 Approx. weight (without batteries)  Fire resistant screened cable, minimum size 1mm² Max. cable length per loop 1 KM Connector blocks Plug-on type, largest acceptable conductor size 1.5mm² Max. allowable loop impedance (each conductor) Max. allowable loop impedance (each conductor) Max. acable capacitance  Via CFP761 network driver card fitted at main panel Max. no. of main panels per network  8 8 8 8 9 8 9 8 9 9 9 9 9 1 KM (daisychain configuration)  1 KM (daisychain configuration)			
Fuses (to IEC - EN60127 Pt2)  Mains Fuse  1A HRC Ceramic 20mm  3A F 20mm  Panel Indicators and Controls  Control buttons  Silence, Reset, Resound, Investigate; More Information; Menu Event scrolling and menu access buttons Liquid Crystal Display  Two lines x 40 characters, backlit  Number of Zonal LED indicators  General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;  Physical Dimensions  Approx. dimensions of biack box (W x H x D)  Approx. weight (without batteries)  Cabling Requirements  Tier resistant screened cable, minimum size 1mm' Max. cable length per loop  1 KM Connector blocks  Pilug-on type, largest acceptable conductor size 1.5mm' Max. allowable loop impedance (each conductor)  Potenction  Via CFP761 network driver card fitted at main panel Max. no of repeaters per main panel  4 8  Max. no of repeaters per main panel  1 KM (dalsychain configuration)  1 KM (dalsychain configuration)	Auxiliary Inputs		
Fuses (to IEC - EN60127 Pt2)  Mains Fuse  1A HRC Ceramic 20mm  3A F 20mm  Panel Indicators and Controls  Control buttons  Silence, Reset, Resound, Investigate; More Information; Menu Event scrolling and menu access buttons Liquid Crystal Display  Two lines x 40 characters, backlit  Number of Zonal LED indicators  General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;  Physical Dimensions  Approx. dimensions of biack box (W x H x D)  Approx. weight (without batteries)  Cabling Requirements  Tier resistant screened cable, minimum size 1mm' Max. cable length per loop  1 KM Connector blocks  Pilug-on type, largest acceptable conductor size 1.5mm' Max. allowable loop impedance (each conductor)  Potenction  Via CFP761 network driver card fitted at main panel Max. no of repeaters per main panel  4 8  Max. no of repeaters per main panel  1 KM (dalsychain configuration)  1 KM (dalsychain configuration)			
Fuses (to IEC - EN60127 Pt2)		Connect to 0V to trigger. May input voltage 27V d.c.	(non-latching) Programmable from cause and effect
Mains Fuse       1A HRC Ceramic 20mm         Panel Indicators and Controls         Control buttons       Silence, Reset, Resound, Investigate; More Information; Menu         Event scrolling and menu access buttons       Up (1); Down (2); Accept (3); Abort (4)         Liquid Crystal Display       Two lines x 40 characters, backlit         Number of Zonal LED indicators       16       32         Other LED indicators       General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;         Physical Dimensions         Approx. dimensions of back box (W x H x D)       380 x 235 x 77mm (plastic). Includes 'lip'.       410 x 250 x 80mm (metal)         Approx. dimensions of Irid (W x H x D)       380 x 235 x 16mm (plastic)       439 x 274 x 7mm (metal)         Approx. dimensions of Irid (W x H x D)       380 x 235 x 16mm (plastic)       439 x 274 x 7mm (metal)         Approx. dimensions of Irid (W x H x D)       380 x 235 x 16mm (plastic)       45 y x 274 x 7mm (metal)         Approx. dimensions of Irid (W x H x D)       380 x 255 x 16mm (plastic)       4.5kg         Cabling Requirements         Type of cable       Fire resistant screened cable, minimum size 1mm²         Max. cable length per loop       1 KM         Max. alouable loop impedance (each conductor)<	Input 1		
Panel Indicators and Controls  Control buttons  Silence, Reset, Resound, Investigate; More Information; Menu Event scrolling and menu access buttons Liquid Crystal Display  Two lines x 40 characters, backlit Number of Zonal LED indicators  General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;  Physical Dimensions  Approx. dimensions of back box (W x H x D)  Approx. dimensions of back box (W x H x D)  Approx. weight (without batteries)  Type of cable  Fire resistant screened cable, minimum size 1mm²  Max. cable length per loop  Connector blocks  Plug-on type, largest acceptable conductor size 1.5mm²  Max. allowable loop impedance (each conductor)  Puttor Specification  Via CFP761 network driver card fitted at main panel  Max. no of repeaters per main panel  Max. no of repeaters per main panel  Max. cable length per network  NEM (daisychain configuration)	Input 1 Input 2		
Panel Indicators and Controls	Input 1 Input 2		
Control buttons       Silence, Reset, Resound, Investigate; More Information; Menu         Event scrolling and menu access buttons       Up (1); Down (2); Accept (3); Abort (4)         Liquid Crystal Display       Two lines x 40 characters, backlit         Number of Zonal LED indicators       16       32         Other LED indicators       General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;         Physical Dimensions         Approx. dimensions of back box (W x H x D)       380 x 235 x 77mm (plastic). Includes 'lip'.       410 x 250 x 80mm (metal)         Approx. dimensions of lid (W x H x D)       380 x 235 x 16mm (plastic)       439 x 274 x 7mm (metal)         Approx. weight (without batteries)       1.9kg       4.5kg         Cabling Requirements         Type of cable       Fire resistant screened cable, minimum size 1mm²         Max. cable length per loop       1 KM         Connector blocks       Plug-on type, largest acceptable conductor size 1.5mm²         Max. cable capacitance       .27μF         Network Specification       Via CFP761 network driver card fitted at main panel       Via AFP711 network driver card fitted at main panel         Max. no. of main panels per network       8       8         Max. no. of repeaters per main panel       4 <td>Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse</td> <td>Connect to 0V to trigger. Max input voltage 27V d.c</td> <td>(non-latching). Programmable from cause and effect.</td>	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse	Connect to 0V to trigger. Max input voltage 27V d.c	(non-latching). Programmable from cause and effect.
Event scrolling and menu access buttons Liquid Crystal Display Number of Zonal LED Indicators  16   32 Other LED Indicators  General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;  Physical Dimensions  Approx. dimensions of back box (W x H x D) Approx. dimensions of lid (W x H x D) Approx. dimensions of lid (W x H x D) Approx. dimensions of lid (W x H x D) Approx. dimensions of lid (W x H x D) Approx. dimensions of lid (W x H x D)  Approx. dimensions of lid (W x H x D) Approx. dimensio	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse	Connect to 0V to trigger. Max input voltage 27V d.c	(non-latching). Programmable from cause and effect.
Liquid Crystal Display       Two lines x 40 characters, backlit         Number of Zonal LED indicators       16       32         Other LED indicators       General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;         Physical Dimensions         Approx. dimensions of back box (W x H x D)       380 x 235 x 77mm (plastic). Includes 'lip'.       410 x 250 x 80mm (metal)         Approx. dimensions of lid (W x H x D)       380 x 235 x 16mm (plastic)       439 x 274 x 7mm (metal)         Approx. weight (without batteries)       1.9 kg       4.5 kg     Cabling Requirements  Type of cable  Fire resistant screened cable, minimum size 1mm²  Max. cable length per loop  1 kM  Connector blocks Plug-on type, largest acceptable conductor size 1.5mm²  20 Ω  Max. cable capacitance  Network Specification  Connection Via CFP761 network driver card fitted at main panel Via AFP711 network driver card fitted at main panel Max. no. of main panels per network  8 8  8 8  Max. no of repeaters per main panel Amax. cable length per network  1 kM (daisychain configuration)  1 kM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse	Connect to 0V to trigger. Max input voltage 27V d.c	(non-latching). Programmable from cause and effect.
Number of Zonal LED indicators       16       32         Other LED indicators       General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;         Physical Dimensions         Approx. dimensions of black box (W x H x D)       380 x 235 x 77mm (plastic). Includes 'lip'.       410 x 250 x 80mm (metal)         Approx. dimensions of lid (W x H x D)       380 x 235 x 16mm (plastic)       439 x 274 x 7mm (metal)         Approx. weight (without batteries)       1.9Kg       4.5kg         Cabling Requirements         Type of cable       Fire resistant screened cable, minimum size 1mm²         Max. cable length per loop       1 KM         Connector blocks       Plug-on type, largest acceptable conductor size 1.5mm²         Max. allowable loop impedance (each conductor)       20 Ω         Max. cable capacitance       27μF         Network Specification         Connection       Via CFP761 network driver card fitted at main panel       Via AFP711 network driver card fitted at main panel       Via AFP711 network driver card fitted at main panel       Amax. cable length per network       8       8	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons	Connect to 0V to trigger. Max input voltage 27V d.c  1A HRC Cer. 3A F 2  Silence, Reset, Resound, Investi	(non-latching). Programmable from cause and effect.  amic 20mm  Omm  gate; More Information; Menu
Other LED indicators       General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;         Physical Dimensions         Approx. dimensions of back box (W x H x D)       380 x 235 x 77mm (plastic). Includes 'lip'.       410 x 250 x 80mm (metal)         Approx. dimensions of lid (W x H x D)       380 x 235 x 16mm (plastic)       439 x 274 x 7mm (metal)         Approx. weight (without batteries)       1.9Kg       4.5kg         Cabling Requirements         Type of cable       Fire resistant screened cable, minimum size 1mm²         Max. cable length per loop       1 KM         Connector blocks       Plug-on type, largest acceptable conductor size 1.5mm²         Max. dallowable loop impedance (each conductor)       20 Ω         Max. cable capacitance       .27μF         Network Specification         Connection       Via CFP761 network driver card fitted at main panel       Via AFP711 network driver card fitted at main panel         Max. no. of main panels per network       8       8         Max. no. of repeaters per main panel       4       4         Max. cable length per network       1KM (daisychain configuration)       1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons Event scrolling and menu access buttons	Connect to 0V to trigger. Max input voltage 27V d.c  1A HRC Cer. 3A F 2  Silence, Reset, Resound, Investi Up (1); Down (2); A	(non-latching). Programmable from cause and effect.  amic 20mm  comm  gate; More Information; Menu ccept (3); Abort (4)
Physical Dimensions         Approx. dimensions of back box (W x H x D)       380 x 235 x 77mm (plastic). Includes 'lip'.       410 x 250 x 80mm (metal)         Approx. dimensions of lid (W x H x D)       380 x 235 x 16mm (plastic)       439 x 274 x 7mm (metal)         Approx. weight (without batteries)       1.9Kg       4.5kg     Cabling Requirements  Type of cable  Fire resistant screened cable, minimum size 1mm²  1 KM  Connector blocks  Plug-on type, largest acceptable conductor size 1.5mm²  Max. allowable loop impedance (each conductor)  Max. cable capacitance  Network Specification  Connection  Connection  Via CFP761 network driver card fitted at main panel  Max. no. of main panels per network  8  Max. no of repeaters per main panel  4  Max. cable length per network  1KM (daisychain configuration)  1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons Event scrolling and menu access buttons Liquid Crystal Display	Connect to 0V to trigger. Max input voltage 27V d.c  1A HRC Cer. 3A F 2  Silence, Reset, Resound, Investi Up (1); Down (2); Al Two lines x 40 ch	amic 20mm 20mm gate; More Information; Menu ccept (3); Abort (4) aracters, backlit
Approx. dimensions of back box (W x H x D) Approx. dimensions of lid (W x H x D) Approx. dimensions of lid (W x H x D) Approx. weight (without batteries)  Cabling Requirements  Type of cable Max. cable length per loop Connector blocks Max. allowable loop impedance (each conductor) Max. cable capacitance  Network Specification  Connection Max. no. of main panels per network Max. no of repeaters per main panel Max. cable length per network Max. cable length per network  Max. cable length per network  Network Specification  Via CFP761 network driver card fitted at main panel Max. no of repeaters per main panel Max. cable length per network  1KM Connection Via CFP761 network driver card fitted at main panel Via AFP711 network driver card fitted at main panel Max. cable length per network  1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons  Event scrolling and menu access buttons Liquid Crystal Display  Number of Zonal LED indicators	Connect to 0V to trigger. Max input voltage 27V d.c  1A HRC Cer. 3A F 2  Silence, Reset, Resound, Investi Up (1); Down (2); Ar Two lines x 40 ch 16  General Fire, System Energised; Pre-Alarm; Remot	(non-latching). Programmable from cause and effect.  amic 20mm  gate; More Information; Menu ccept (3); Abort (4) aracters, backlit  32 e Output Activated; Menus Accessed; Disablement;
Approx. dimensions of lid (W x H x D) Approx. weight (without batteries)  Type of cable Max. cable length per loop Connector blocks Max. allowable loop impedance (each conductor) Max. cable capacitance  Network Specification  Connection  Wax. no. of main panels per network  Max. no of repeaters per main panel Max. cable length per network  Max. cable length per network  Network Specification  Via CFP761 network driver card fitted at main panel Max. no. of main panels per network  Max. no of repeaters per main panel Max. cable length per network  Network Specification  Via CFP761 network driver card fitted at main panel Max. no of main panels per network  Network Specification  Via CFP761 network driver card fitted at main panel Max. no of repeaters per main panel  Max. cable length per network  Network Specification  Via CFP761 network driver card fitted at main panel Max. no of repeaters per main panel  Max. cable length per network  Network Specification  Via CFP761 network driver card fitted at main panel Max. no of repeaters per main panel Max. cable length per network  Network Specification  Via CFP761 network driver card fitted at main panel Max. no of repeaters per main panel Max. cable length per network  Network Specification  Via CFP761 network driver card fitted at main panel Max. no of repeaters per main panel Max. cable length per network	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons Event scrolling and menu access buttons Liquid Crystal Display Number of Zonal LED indicators Other LED indicators	Connect to 0V to trigger. Max input voltage 27V d.c  1A HRC Cer. 3A F 2  Silence, Reset, Resound, Investi Up (1); Down (2); Ar Two lines x 40 ch 16  General Fire, System Energised; Pre-Alarm; Remot	(non-latching). Programmable from cause and effect.  amic 20mm  gate; More Information; Menu ccept (3); Abort (4) aracters, backlit  32 e Output Activated; Menus Accessed; Disablement;
Approx. weight (without batteries)       Cabling Requirements       Type of cable     Fire resistant screened cable, minimum size 1mm²       Max. cable length per loop     1 KM       Connector blocks     Plug-on type, largest acceptable conductor size 1.5mm²       Max. allowable loop impedance (each conductor)     20 Ω       Max. cable capacitance     .27μF       Network Specification       Connection     Via CFP761 network driver card fitted at main panel     Via AFP711 network driver card fitted at main panel       Max. no. of main panels per network     8     8       Max. no of repeaters per main panel     4     4       Max. cable length per network     1KM (daisychain configuration)     1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons  Event scrolling and menu access buttons  Liquid Crystal Display  Number of Zonal LED indicators  Other LED indicators  Physical Dimensions	Silence, Reset, Resound, Investi Up (1); Down (2); A Two lines x 40 ch General Fire, System Energised; Pre-Alarm; Remote Test; Remote Output Disabled; Silen	gate; More Information; Menu coept (3); Abort (4) aracters, backlit  9 Output Activated; Menus Accessed; Disablement; ced; General Fault; System Fault;
Type of cable  Max. cable length per loop  Connector blocks  Max. allowable loop impedance (each conductor)  Max. cable capacitance  Network Specification  Connection  Max. no. of main panels per network  Max. no of repeaters per main panel  Max. cable length per loop  Fire resistant screened cable, minimum size 1mm²  1 KM  Plug-on type, largest acceptable conductor size 1.5mm²  20 Ω  Nax. cable capacitance  Network Specification  Via CFP761 network driver card fitted at main panel  Via AFP711 network driver card fitted at main panel  8  8  Max. no of repeaters per main panel  4  4  Max. cable length per network  1 KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons  Event scrolling and menu access buttons  Liquid Crystal Display  Number of Zonal LED indicators  Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D)	Connect to 0V to trigger. Max input voltage 27V d.c.  1A HRC Cer. 3A F 2  Silence, Reset, Resound, Investi Up (1); Down (2); Ar Two lines x 40 ch 16  General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen 380 x 235 x 77mm (plastic). Includes 'lip'.	amic 20mm  gate; More Information; Menu ccept (3); Abort (4) aracters, backlit  0 Output Activated; Menus Accessed; Disablement; ced; General Fault; System Fault;
Type of cable  Max. cable length per loop  Connector blocks  Max. allowable loop impedance (each conductor)  Max. cable capacitance  Network Specification  Connection  Max. no. of main panels per network  Max. no of repeaters per main panel  Max. cable length per loop  Fire resistant screened cable, minimum size 1mm²  1 KM  Plug-on type, largest acceptable conductor size 1.5mm²  20 Ω  Nax. cable capacitance  Network Specification  Via CFP761 network driver card fitted at main panel  Via AFP711 network driver card fitted at main panel  8  8  Max. no of repeaters per main panel  4  4  Max. cable length per network  1 KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons Event scrolling and menu access buttons Liquid Crystal Display Number of Zonal LED indicators Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D) Approx. dimensions of lid (W x H x D)	Connect to 0V to trigger. Max input voltage 27V d.c.  1A HRC Cer. 3A F 2  Silence, Reset, Resound, Investi Up (1); Down (2); A Two lines x 40 ch 16 General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'. 380 x 235 x 16mm (plastic)	(non-latching). Programmable from cause and effect.  amic 20mm  gate; More Information; Menu ccept (3); Abort (4) aracters, backlit  32 e Output Activated; Menus Accessed; Disablement; cced; General Fault; System Fault;  410 × 250 × 80mm (metal) 439 × 274 × 7mm (metal)
Max. cable length per loop  Connector blocks  Plug-on type, largest acceptable conductor size 1.5mm²  Max. allowable loop impedance (each conductor)  Max. cable capacitance  20 Ω  Max. cable capacitance  Network Specification  Connection  Max. no. of main panels per network  Max. no of repeaters per main panel  Max. no of repeaters per main panel  Max. cable length per network  1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons  Event scrolling and menu access buttons  Liquid Crystal Display  Number of Zonal LED indicators  Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D)  Approx. dimensions of lid (W x H x D)  Approx. weight (without batteries)	Connect to 0V to trigger. Max input voltage 27V d.c.  1A HRC Cer. 3A F 2  Silence, Reset, Resound, Investi Up (1); Down (2); A Two lines x 40 ch 16 General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'. 380 x 235 x 16mm (plastic)	(non-latching). Programmable from cause and effect.  amic 20mm  gate; More Information; Menu ccept (3); Abort (4) aracters, backlit  32 e Output Activated; Menus Accessed; Disablement; cced; General Fault; System Fault;  410 × 250 × 80mm (metal) 439 × 274 × 7mm (metal)
Connector blocks       Plug-on type, largest acceptable conductor size 1.5mm²         Max. allowable loop impedance (each conductor)       20 Ω         Max. cable capacitance       .27μF         Network Specification         Connection       Via CFP761 network driver card fitted at main panel       Via AFP711 network driver card fitted at main panel         Max. no. of main panels per network       8       8         Max. no of repeaters per main panel       4       4         Max. cable length per network       1KM (daisychain configuration)       1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons Event scrolling and menu access buttons Liquid Crystal Display Number of Zonal LED indicators Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D) Approx. dimensions of lid (W x H x D) Approx. weight (without batteries)  Cabling Requirements	Connect to 0V to trigger. Max input voltage 27V d.c.  1A HRC Cer. 3A F 2  Silence, Reset, Resound, Investi Up (1); Down (2); Ar Two lines x 40 ch 16 General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'. 380 x 235 x 16mm (plastic) 1.9Kg	amic 20mm  gate; More Information; Menu ccept (3); Abort (4) aracters, backlit  0 Output Activated; Menus Accessed; Disablement; ced; General Fault; System Fault;  410 × 250 × 80mm (metal) 439 × 274 × 7mm (metal) 4.5kg
Max. cable capacitance  .27μF  Network Specification  Connection  Wax. no. of main panels per network  Max. no of repeaters per main panel  4  Max. cable length per network  1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons  Event scrolling and menu access buttons Liquid Crystal Display  Number of Zonal LED indicators  Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D)  Approx. dimensions of lid (W x H x D)  Approx. weight (without batteries)  Cabling Requirements  Type of cable	Silence, Reset, Resound, Investi  Silence, Reset, Resound, Investi Up (1); Down (2); Ar Two lines x 40 ch 16 General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'. 380 x 235 x 16mm (plastic) 1.9Kg	amic 20mm  gate; More Information; Menu ccept (3); Abort (4) aracters, backlit  Goutput Activated; Menus Accessed; Disablement; ced; General Fault; System Fault;  410 x 250 x 80mm (metal) 439 x 274 x 7mm (metal) 4.5kg
Network Specification  Connection  Via CFP761 network driver card fitted at main panel  Max. no. of main panels per network  Max. no of repeaters per main panel  Max. cable length per network  1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons  Event scrolling and menu access buttons Liquid Crystal Display  Number of Zonal LED indicators  Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D)  Approx. dimensions of lid (W x H x D)  Approx. weight (without batteries)  Cabling Requirements  Type of cable  Max. cable length per loop	Silence, Reset, Resound, Investi  Silence, Reset, Resound, Investi  Up (1); Down (2); Ar  Two lines x 40 ch  16  General Fire, System Energised; Pre-Alarm; Remot  Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'.  380 x 235 x 16mm (plastic)  1.9Kg	gate; More Information; Menu comm  gate; More Information; Menu count (3); Abort (4) aracters, backlit  20 Output Activated; Menus Accessed; Disablement; ced; General Fault; System Fault;  410 x 250 x 80mm (metal) 439 x 274 x 7mm (metal) 4.5kg
Connection  Via CFP761 network driver card fitted at main panel  Max. no. of main panels per network  Max. no of repeaters per main panel  Max. cable length per network  Via AFP711 network driver card fitted at main panel  8  8  Max. no of repeaters per main panel  4  Max. cable length per network  1KM (daisychain configuration)  1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons Event scrolling and menu access buttons Liquid Crystal Display Number of Zonal LED indicators  Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D)  Approx. dimensions of lid (W x H x D)  Approx. weight (without batteries)  Cabling Requirements  Type of cable  Max. cable length per loop Connector blocks Max. allowable loop impedance (each conductor)	Silence, Reset, Resound, Investi  Silence, Reset, Resound, Investi  Up (1); Down (2); A  Two lines x 40 ch  16  General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'. 380 x 235 x 16mm (plastic) 1.9Kg  Fire resistant screened ca  Plug-on type, largest accept.	amic 20mm  gate; More Information; Menu coept (3); Abort (4) aracters, backlit  0 Output Activated; Menus Accessed; Disablement; ced; General Fault; System Fault;  410 × 250 × 80mm (metal) 439 × 274 × 7mm (metal) 4.5kg
Connection  Via CFP761 network driver card fitted at main panel  Max. no. of main panels per network  Max. no of repeaters per main panel  Max. cable length per network  Via AFP711 network driver card fitted at main panel  8  8  Max. no of repeaters per main panel  4  Max. cable length per network  1KM (daisychain configuration)  1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons Event scrolling and menu access buttons Liquid Crystal Display Number of Zonal LED indicators  Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D)  Approx. dimensions of lid (W x H x D)  Approx. weight (without batteries)  Cabling Requirements  Type of cable  Max. cable length per loop Connector blocks Max. allowable loop impedance (each conductor)	Silence, Reset, Resound, Investi  Silence, Reset, Resound, Investi  Up (1); Down (2); A  Two lines x 40 ch  16  General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'. 380 x 235 x 16mm (plastic) 1.9Kg  Fire resistant screened ca  Plug-on type, largest accept.	amic 20mm  gate; More Information; Menu coept (3); Abort (4) aracters, backlit  0 Output Activated; Menus Accessed; Disablement; ced; General Fault; System Fault;  410 × 250 × 80mm (metal) 439 × 274 × 7mm (metal) 4.5kg
Max. no. of main panels per network  Max. no of repeaters per main panel  4  Max. cable length per network  1KM (daisychain configuration)  1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons  Event scrolling and menu access buttons Liquid Crystal Display  Number of Zonal LED indicators  Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D)  Approx. dimensions of lid (W x H x D)  Approx. weight (without batteries)  Cabling Requirements  Type of cable  Max. cable length per loop  Connector blocks  Max. allowable loop impedance (each conductor)  Max. cable capacitance	Silence, Reset, Resound, Investi  Silence, Reset, Resound, Investi  Up (1); Down (2); A  Two lines x 40 ch  16  General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'. 380 x 235 x 16mm (plastic) 1.9Kg  Fire resistant screened ca  Plug-on type, largest accept.	amic 20mm  gate; More Information; Menu coept (3); Abort (4) aracters, backlit  0 Output Activated; Menus Accessed; Disablement; ced; General Fault; System Fault;  410 × 250 × 80mm (metal) 439 × 274 × 7mm (metal) 4.5kg
Max. no of repeaters per main panel  Max. cable length per network  1KM (daisychain configuration)  1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons Event scrolling and menu access buttons Liquid Crystal Display Number of Zonal LED indicators Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D) Approx. dimensions of lid (W x H x D) Approx. weight (without batteries)  Cabling Requirements Type of cable Max. cable length per loop Connector blocks Max. allowable loop impedance (each conductor) Max. cable capacitance  Network Specification	Silence, Reset, Resound, Investi  Up (1); Down (2); Ar  Two lines x 40 ch  16  General Fire, System Energised; Pre-Alarm; Remot  Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'.  380 x 235 x 16mm (plastic)  1.9Kg  Fire resistant screened ca  1 K  Plug-on type, largest accept	amic 20mm  gate; More Information; Menu ccept (3); Abort (4) aracters, backlit  0 Output Activated; Menus Accessed; Disablement; ced; General Fault; System Fault;  410 × 250 × 80mm (metal) 439 × 274 × 7mm (metal) 4.5kg
Max. cable length per network 1KM (daisychain configuration) 1KM (daisychain configuration)	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons Event scrolling and menu access buttons Liquid Crystal Display Number of Zonal LED indicators Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D) Approx. dimensions of lid (W x H x D) Approx. weight (without batteries)  Cabling Requirements Type of cable Max. cable length per loop Connector blocks Max. allowable loop impedance (each conductor) Max. cable capacitance  Network Specification Connection	Silence, Reset, Resound, Investi Up (1); Down (2); A Two lines x 40 ch 16 General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'. 380 x 235 x 16mm (plastic) 1.9Kg  Fire resistant screened ca 1 k Plug-on type, largest accept 20 27	Annic 20mm  Pomm
DC/Duintay Intayfaca	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons  Event scrolling and menu access buttons Liquid Crystal Display  Number of Zonal LED indicators  Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D)  Approx. dimensions of lid (W x H x D)  Approx. weight (without batteries)  Cabling Requirements  Type of cable  Max. cable length per loop  Connector blocks  Max. allowable loop impedance (each conductor)  Max. cable capacitance  Network Specification  Connection  Max. no. of main panels per network	Silence, Reset, Resound, Investi  Up (1); Down (2); Ar  Two lines x 40 ch  16  General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'.  380 x 235 x 16mm (plastic) 1.9Kg  Fire resistant screened ca 1 K Plug-on type, largest accept 20 27,  Via CFP761 network driver card fitted at main panel 8	Annic 20mm  Igate; More Information; Menu Igate; More Information
	Input 1 Input 2  Fuses (to IEC - EN60127 Pt2)  Mains Fuse Battery Fuse  Panel Indicators and Controls  Control buttons Event scrolling and menu access buttons Liquid Crystal Display Number of Zonal LED indicators  Other LED indicators  Physical Dimensions  Approx. dimensions of back box (W x H x D) Approx. dimensions of lid (W x H x D) Approx. weight (without batteries)  Cabling Requirements Type of cable Max. cable length per loop Connector blocks Max. allowable loop impedance (each conductor) Max. cable capacitance  Network Specification Connection Max. no. of main panels per network Max. no of repeaters per main panel	Silence, Reset, Resound, Investi  Up (1); Down (2); A Two lines x 40 ch  16 General Fire, System Energised; Pre-Alarm; Remot Test; Remote Output Disabled; Silen  380 x 235 x 77mm (plastic). Includes 'lip'. 380 x 235 x 16mm (plastic) 1.9Kg  Fire resistant screened ca 1 K Plug-on type, largest accept 20 27  Via CFP761 network driver card fitted at main panel 8 4	Annic 20mm  Signate; More Information; Menu Scoept (3); Abort (4) Aracters, backlit  Be Output Activated; Menus Accessed; Disablement; Coed; General Fault; System Fault;  A10 x 250 x 80mm (metal) A39 x 274 x 7mm (metal) A.5kg  Bible, minimum size 1mm² A.5kg  Via AFP711 network driver card fitted at main panel 8 4

Via main panel RS232 molex connector (lead supplied in XFP507 upload/download software kit)

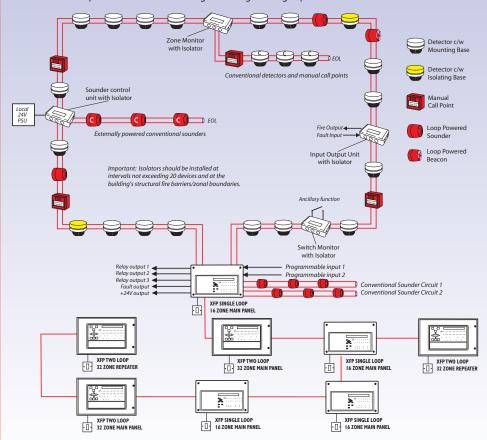
Not applicable | Via main panel RS232 connector block

Via main panel RS232 connector block.

PC connection
Printer connection

#### TYPICAL WIRING

Below is a diagram of a typical XFP 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 fire panels can be networked together using the range's powerful RS485 network.



The above 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.

#### KEY FEATURES OF XFP NETWORK PROTOCOL

- Supports eight interconnected XFP panels over a two-wire RS485 network.
- Single loop 16 zone XFPs and 1 and 2 loop 32 zone XFPs may be networked together.
- Any main panel can have up to four repeaters connected to it.
- Up to 1 km of cable may be fitted to a network system.
- Each networked XFP panel can be programmed to:
  - Accept Faults from other panels.
  - Accept Fires from other panels.
- Accept Control actions such as silence control sounder, silence alarm sounders and reset from other panels.
- Accept Disablement commands for zones, sounders and output sets from other panels.

(Each of these four functions may be individually selected).

- All panels monitor all other panels for network wiring faults.
- Fires on remote panels are displayed in detail on a local panel including the point description of the origin of the alarm.
- Faults on remote panels are displayed in detail on a local panel including the point description in the case of a detector.
- Cause and effect can be programmed into a local panel dependent on which remote panel is in alarm.
- The network supports programming of site information into remote panels from a PC connected at a local panel.
- Time and date is common to all panels throughout the network.
- All panels connected to the network need a network driver card.

# XFP ORDER CODES

XFP SINGLE LOOP 16 ZONE FIRE PANELS	
XFP501E/X	XFP Networkable single loop 16 zone panel (XP95/Discovery) Code entry, c/w 1.4A psu, plastic enclosure
XFP501EK/X	XFP Networkable single loop 16 zone panel (XP95/Discovery) Keyswitch entry, c/w 1.4A psu, plastic enclosure
XFP501E/H	XFP Networkable single loop 16 zone panel (Hochiki ESP) Code entry, c/w 1.4A psu, plastic enclosure
XFP501EK/H	XFP Networkable single loop 16 zone panel (Hochiki ESP) Keyswitch entry, c/w 1.4A psu, plastic enclosure

#### **XFP 1 LOOP 32 ZONE FIRE PANELS**

XFP Networkable one loop 32 zone panel (XP95/Discovery) Code entry, c/w 3A psu, metal enclosure
XFP Networkable one loop 32 zone panel (XP95/Discovery) Keyswitch entry, c/w 3A psu, metal enclosure
XFP Networkable one loop 32 zone panel (Hochiki ESP) Code entry, c/w 3A psu, metal enclosure
XFP Networkable one loop 32 zone panel (Hochiki ESP) Keyswitch entry, c/w 3A psu, metal enclosure

#### **XFP 2 LOOP 32 ZONE FIRE PANELS**

XFP502/X	XFP Networkable two loop 32 zone panel (XP95/Discovery) Code entry, c/w 3A psu, metal enclosure
XFP502K/X	XFP Networkable two loop 32 zone panel (XP95/Discovery) Keyswitch entry, c/w 3A psu, metal enclosure
XFP502/H	XFP Networkable two loop 32 zone panel (Hochiki ESP) Code entry, c/w 3A psu, metal enclosure
XFP502K/H	XFP Networkable two loop 32 zone panel (Hochiki ESP) Keyswitch entry, c/w 3A psu, metal enclosure

# XFP REPEATERS

XFP510	XFP Networkable repeater panel, 32 zones (all protocols) Code entry, c/w psu, metal enclosure
XFP510K	XFP Networkable repeater panel, 32 zones (all protocols) Keyswitch entry, c/w psu, metal enclosure

#### XFP BEZELS

ATT DEEELS	
AFP385	Flush mounting bezel (for XFP 32 zone panels & repeaters)
	XFP 16 zone panels have been designed so they can be surface or semi-flush mounted without the need for an additional bezel

### XFP NETWORK COMMUNICATION CARDS

CFP761	XFP network communication card for XFP 16 zone panels All protocols, one required for each networked panel
AFP711	XFP network communication card for XFP 32 zone panels All protocols, one required for each networked panel

#### XFP PROGRAMMING SOFTWARE

XFP507	XFP Upload download software kit (all protocols)
	Compatible with Windows 98, 2000, XP
	Compatible With Windows 98 2000 XP

# XFP PRINTER KITS

AFP709 XFP off-board printer kit



Manufactured by C-TEC, Stephens Way, Wigan, WN3 6PH. England

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