ZFP

Touchscreen-Controlled Analogue Addressable Fire Panel

Key ZFP features...

- EN54 parts 2 and 4 compliant
- Apollo XP95/Discovery protocol
- Three cabinet sizes - standard, medium and large
- Up to 8 loops per panel (four in standard cabinet)
- Up to 64 eight-loop peer to peer panel network capacity
- Hi-integrity and singlepath networking options
- Very flexible cause and effects
- Wide range of Switch & Indicator modules
- Multiple 'A-Bus' expansion PCBs (I/O Units, Relays, etc)
- User-friendly full colour touchscreen with dynamic buttons and virtual QWERTY keyboard
- Up to 200 separate and programmable zonal LEDs per panel (medium and large cabinets only)
- 10,000 programmable and indicatable detection zones
- Up to 38 characters of custom text per loop device
- Automatic daylight saving (BST/GMT) mode

- 20,000+ event memory (filterable by fire, fault & date)
- Non-fire supervisory event functionality
- Optional thermal printers
- Well-designed cabinets with easily removable electronics chassis
- 20-way heavy-duty brass earth bar as standard
- 72-hour standby (+ 30 min alarm) in standard cabinets
- Built-in loop status & current-reading
- Powerful engineering and commissioning functions including SafeMode and DeviceManager
- Attractive Compact Controllers
- Wide range of flush-fit bezels and attractive glazed stainless steel frames
- FULLY compatible with C-TEC manufactured addressable ancillaries (Hush Buttons, Sounders, Voice Sounders and Beacons)
- Powerful and intuitive PC programming tools
- Wide range of supported languages

Alarms | **0 Faults** | **0 Disablements** | **0 Tests**

C-TEC

10:41:01 15/01/1

Menu | Reset | Mute | Silence

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You're safe with C-TEC

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Intelligent fire alarm technology at your fingertips

Total control at your fingertips

Taking fire alarm technology to a new level

Every once in a while a product comes along that lifts existing, respected technology to another level. C-TEC's ZFP is one such product.

Created with the input of some of the world's leading fire alarm and life safety experts, the ZFP is the powerful touchscreen-controlled fire alarm panel that everyone's been waiting for.

Designed and built in the UK, the panel can be configured to suit any application. From small 'one out, all out' systems to large multi-loop networked systems with sophisticated cause and effects, the ZFP can handle them all – with ease.

"The advent of an easy-to-program fire panel with powerful capabilities is long overdue. I anticipate that the invention of the ZFP will revolutionise the fire industry by heralding a new era of touchscreen controlled 'super power' fire alarm technology."
STAN BROOKE, TECHNICAL ALARM SYSTEMS

Powerful code-protected engineer functions

Simple keyswitch access for end users

Multiple modes of operation

Touch and go

Everything about the ZFP's unique full-colour touchscreen interface has been designed with the user in mind.

Simply tap the option you require and away you go. Whether you're the responsible person on site, the installer, the commissioning engineer or the emergency services, you can access the information you require quickly and easily - all at the touch of a virtual button.

Powerful diagnostics, rapid loop learn, 'SafeMode' and a unique 'DeviceManager' function combine to make the ZFP one of the most user-friendly control panels on the market.

"The look, feel and design of the ZFP's touchscreen is a big step-forward for end users, installers and service technicians alike. Accessing the panel's functions is simplicity itself and it includes a number of smart functions that help save valuable time."
PAUL WARD, PROCYON FIRE

Silence and reset alarm conditions with ease

Comprehensive diagnostic facilities

Everything you need at the touch of a button

Mix and match

Mix and match is the name of the game with the ZFP and, with three master cabinets to choose from, you're spoilt for choice.

Depending on the cabinet you choose, extra indicator and switch modules can be added, along with additional loop driver PCBs, high-integrity network PCBs, 'A-BUS' peripheral PCBs, flush mounting bezels, glazed stainless steel frames and more.

With a wide range of 'off-the-shelf' ZFPs also available, getting the panel you need for a specific application has never been easier.

Wide range of bezels & stainless steel accessories

Fully interchangeable indicator modules

Customisable labels supplied free-of-charge

"The modular nature of the ZFP means I no longer need to worry about a design brief changing at the last minute. The risk of being stuck with a rigid, inflexible system has vanished. What's more, unplanned changes can be accommodated at a later date so the whole system is future proof."
GRAHAM BELL, SOLID STATE SECURITY

Cleverly compact

With its classy Compact Controllers, the ZFP not only does the job, it looks the part too.

Worried that your plush new reception area is going to be compromised by an ugly metal box in the main entrance? Think again! The ZFP's optional state-of-the-art Compact Controllers are stylish, smart and can actually enhance the design of a building's reception area and access points.

Simply locate the main panel out of sight and let the ZFP's modern high-tech Compact Controllers add a touch of class to your surroundings.

"The last thing our clients want after spending a fortune refurbishing their premises is an unsightly fire panel spoiling the space. The availability of a Compact Controller effectively gives our clients the best of both worlds – quality fire protection that looks well designed and integrated."
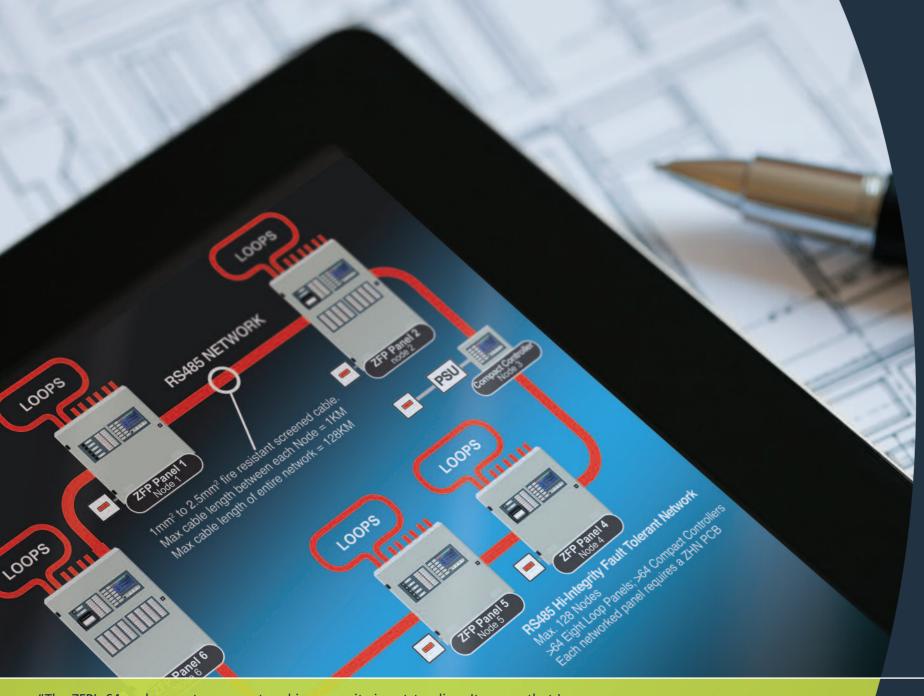**MARK DAVIES, K2 ARCHITECTS**

Enhance your reception with a flush Controller

Fully-functional user & engineer controls

Optional surface versions also available

RS485 NETWORK

LOOPS

ZFP Panel 1
Node 1

ZFP Panel 2
node 2

PSU

Compact Controller
Node 3

ZFP Panel 4
Node 4

ZFP Panel 5
Node 5

ZFP Panel 6
Node 6

1mm² to 2.5mm² fire resistant screened cable.
Max cable length between each Node = 1KM
Max cable length of entire network = 128KM

RS485 Hi-Integrity Fault Tolerant Network
Max. 128 Nodes
>64 Eight Loop Panels; >64 Compact Controllers
Each networked panel requires a ZHN PCB

"The ZFP's 64 node peer-to-peer networking capacity is outstanding. It means that I can create a high integrity fire alarm and detection system with up to 12,800 zones and over 64,000 loop devices without compromising on quality. Superb!"
JOHN LLOYD, GLASSLETTER

Nifty Networking

Never before has networking a fire panel been so trouble-free.

Creating a sophisticated fire alarm system for an airport, hospital, university, tower block, hotel, football stadium or other large building is just a few steps up from establishing a simple 'one out, all out' system for a small factory unit.

Up to 64 eight-loop panels can be interconnected over the ZFP's high-integrity fault tolerant network. This versatility, coupled with the ability to assign individual zones across the network and add up to 38 characters of custom text per device means letting the emergency services know the precise location of a fire has never been easier.

Clear indication of alarms across multiple panels

Installed in a host of prestigious sites

Optional 'singlepath' networking for retrofits

And that's not all

For specialist installation companies and commissioning engineers, the ZFP has no equal.

Features such as a fully filterable 20,000+ event memory, powerful 500mA loop drivers, optional paging and graphic interface facilities, emailable firmware updates and intuitive PC programming tools combine to make the ZFP a very special fire panel indeed.

All this and full compliance with EN54 parts 2 and 4 means that the ZFP is rapidly becoming the fire panel of choice for the fire industry worldwide.

"I don't make fire panels, I install them, but this is the fire panel I would have designed if I was an R&D engineer. The ZFP has virtually every feature you can think of and its touchscreen interface makes installation, commissioning and servicing very easy."
DAVID KEY, PHOENIX FIRE

Powerful & intuitive PC programming tools

20 way earth bar and lots of working space

Up to 72 hours standby in standard cabinets

Panel Specification

Power Supply and Charger	ZFP (Standard Cabinet)	ZFP (Medium Cabinet)	ZFP (Large Cabinet)
Mains supply operating voltage	230Vac ±10% 50/60Hz	230Vac ±10% 50/60Hz	230Vac ±10% 50/60Hz
Rated current	810mA max.	1.35A max.	1.35A max.
Internal power supply	27 Vdc, 3A	27 Vdc, 5A	27 Vdc, 5A
Max. continuous output current (including charging)	3A	5A	5A
Max. VRLA battery size and type	2 x 12V, 18Ah	2 x 12V, 38Ah	2 x 12V, 38Ah
Loop Drivers			
Number of loops	1^, 2 or 4	1^, 2, 4, 6* or 8 *	1^, 2, 4, 6* or 8*
Max. output current per loop	500mA (Voltage: 25V min; 34V max)		
Communication Protocol	Apollo XP95/Discovery (max. 127 addressable devices per loop)		
Type of cable / Max. cable length per loop	Fire resistant screened cable, up to 2.5mm² / 1km max. length		
Max. allowable loop impedance/capacitance (each conductor)	20 ohm		
Max. cable capacitance	.27uF		
Conventional Sounder Circuits (programmable & monitored)			
Number/type of conventional sounder circuits	2 x 1A outputs. Protected by resettable overload circuit		
Output voltage	19.5V minimum; 28V maximum		
Type of cable / Max. cable length per loop	Fire resistant screened cable, up to 2.5mm² / 1km max. length		
Auxiliary Inputs (programmable)			
Number of auxiliary inputs	2 (Connect to 0V to trigger, Max. input voltage 27Vdc non-latching).		
EOL resistor value (supplied)	6800 ohm, 5% Tolerance, 0.25W		
Trigger resistor (supplied)	470R, 0.25W		
Relay Outputs (programmable)			
Number of relay outputs	2 x programmable auxiliary relays; 1 x failsafe fault relay; 1 x 24Vdc auxiliary power output		
Relay type & outputs	1A, 30Vdc (maximum). Voltage free, single pole changeover		
Fault relay	Active when faults are present or on total power failure		
24Vdc auxiliary power output	19.5V minimum, 28V maximum. Max current 100mA.		
Indicators and Controls			
Standard provision	All models include a **Z41** Control/Display module which comprises a full colour 4.3" touchscreen, all mandatory EN 54 indicators, 3 spare LEDs and a keyswitch allowing direct access to AL2		
Zonal Indicators	Up to 200 separate programmable LEDs available via Switch & Indicator expansion modules		
Switches & onboard printers	Multiple switch and printer configurations available via Switch & Indicator expansion modules		
Switch & Indicator module capacity (1 x Z41 req. per panel)	2	4	6
Communication Buses			
On-board Serial Printer (Optional)	1 x RS232 connector		
Pager/DECT Interface	1 x RS232 connector		
Networking	1 x RS485 connector (hi-integrity fault-tolerant and standard integrity non-fault tolerant options)		
Peripheral Bus (A-Bus)	1 x RS485 connector. Allows the connection of up to 15 A-Bus PCBs. Wiring requirements = 2 core plus screen plus 2 core for power.		
PC Interface	Galvanically isolated USB connector (provided on the **Z41** Control/Display module)		
Mechanical & Environmental			
Dimensions (lid & back box) H x W x D mm	462 x 450 x 127	720 x 450 x 200	960 x 450 x 200
Finish & IP rating	Light grey texture (RAL7035) epoxy. Mild steel. Zintec 1.2mm thick / IP30		
Operating temperature / humidity	-5°C to +40°C / 5% to 95 % R.H non condensing		
Networking			
Network type	RS485 (hi-integrity fault tolerant, ring wired). One **ZHN** network PCB required per networked panel		
Maximum no. of network nodes	128 (up to 64 x 8 loop panels and 64 x compact controllers)		
Type of cable / Max. cable length	Fire resistant screened cable, up to 2.5mm² / 1km between nodes; 128km (max network length).		
Network wiring	Fire resistant screened cable, up to 2.5mm²		
Detail	Events (Fires, Faults, Disablements, Tests) & Actions (Silence/Resound Sounders, Reset) can be accepted over the network. Zones, Input & Output Groups, etc. can be shared over the network.		

System Expansion Options

The ZFP's modular construction allows you to specify a panel that suits your exact requirements. Depending on the cabinet you choose, extra indicator and switch modules can be added along with additional loop drivers PCBs, A-BUS expansion PCBs, network PCBs and more. Panels can be built and tested to your specification prior to despatch or you can select from a number of off-the-shelf pre-built ZFP panels and add your own expansion devices.

INDICATOR & SWITCH MODULE OPTIONS
Z41 Control/Display Module c/w touchscreen, keyswitch, 16 LEDs.
Z44 20 Zone Indicator Module c/w name slots
Z45 20 Zone Indicator Module c/w name slots & 5 switches
Z46 20 Zone Indicator Module c/w name slots, printer & 2 switches
Z47 40 Zone Indicator Module c/w name slots
Z48 40 Zone Indicator Module c/w 5 switches
Z49 40 Zone Indicator Module c/w printer & 2 switches
Z50/1-100 100 Zone Indicator Module, numbered 1-100
Z50/101-200 100 Zone Indicator Module, numbered 101-200
Z51 Printer Module
ZBLANK Blank Module

A-BUS PCB OPTIONS
Z11 4 Way Relay PCB
Z12 8 Way Relay PCB
Z13 8 Way I/O PCB
Z14 16 Way I/O PCB
Z15 4 Conventional 1A 6K8 Sounder Circuit PCB (full size)*
Z16 4 Detection Zone & 2 1A 6K8 Conventional Sounder Circuit PCB*

NETWORKING PCB OPTIONS
ZHN Hi-NET multi-path fault tolerant network PCB (one per main panel)

COMPACT CONTROLLER OPTIONS
ZREP1F Flush Compact Controller (W214 x H178 x D70mm)
ZREP1S Surface Compact Controller (W214 x H178 x D70mm)
Alignment plates & single module cabinets also available - please call for details

LOOP EXPANSION PCB OPTIONS
Z02LOOP/X 2 loop expansion PCB (extends 2 loop panel to 4 loops) ^

PROGRAMMING SOFTWARE
ZTOOLS PC Programming Tools (includes software & connection lead)

FLUSH-FITTING BEZEL OPTIONS
ZBEZS Flush-fit bezel for ZFP standard cabinet (W492 x H504 x D30mm)
ZBEZM Flush-fit bezel for ZFP medium cabinet (W492 x H762 x D30mm)
ZBEZL Flush-fit bezel for ZFP large cabinet (W492 x H1002 x D30mm)

GLAZED STAINLESS STEEL FRAME OPTIONS
ZBEZDS/SS Glazed stainless steel frame for ZFP standard cabinet
ZBEZDM/SS Glazed stainless steel frame for ZFP medium cabinet
ZBEZDL/SS Glazed stainless steel frame for ZFP large cabinet
ZBEZDC/SS Glazed stainless steel frame for ZFP Compact Controller
ZBEZD/CL Cam lock kit for glazed st/steel frame
ZBEZD/SL Solenoid lock kit for glazed st/steel frame (not ZBEZDC/SS)

GRAPHIC INTERFACE OPTIONS
ZG1 Single panel graphics interface (software & dongle)
ZG2 1-5 panel graphics interface (software & dongle)
ZG3 1-5 panel graphics interface with TCP/IP (software & dongle)

PAGING EQUIPMENT OPTIONS
AFP600S RS232 Isolated Wall Socket
BF874QAQ Serial display paging transmitter, approx. 500m range
BF876DQ Dipole 400mHz aerial & 10m lead, extends range to 1500m
BF877QAQ 40 character alphanumeric pocket pager

Pre-built ZFP Panels (XP95/Discovery)

Z0130000S/X ZFP 1 Loop Fire Panel, standard cabinet c/w Z41 & ZBLANK	**Z023040PS/X** ZFP 2 Loop Fire Panel, standard cabinet c/w Z41 & Z49
Z013020NS/X ZFP 1 Loop Fire Panel, standard cabinet c/w Z41 & Z44	**Z0250000M/X** ZFP 2 Loop Fire Panel, medium cabinet c/w Z41 & 3 x ZBLANK
Z013040NS/X ZFP 1 Loop Fire Panel, standard cabinet c/w Z41 & Z47	**Z0250000L/X** ZFP 2 Loop Fire Panel, large cabinet c/w Z41 & 5 x ZBLANK
Z013020PS/X ZFP 1 Loop Fire Panel, standard cabinet c/w Z41 & Z46	**Z0430000S/X** ZFP 4 Loop Fire Panel, standard cabinet c/w Z41 & ZBLANK
Z013040PS/X ZFP 1 Loop Fire Panel, standard cabinet c/w Z41 & Z49	**Z043020NS/X** ZFP 4 Loop Fire Panel, standard cabinet c/w 41 & Z44
Z0150000M/X ZFP 1 Loop Fire Panel, medium cabinet c/w Z41 & 3 x ZBLANK	**Z043040NS/X** ZFP 4 Loop Fire Panel, standard cabinet c/w Z41 & Z47
Z0150000L/X ZFP 1 Loop Fire Panel, large cabinet c/w Z41 & 5 x ZBLANK	**Z043020PS/X** ZFP 4 Loop Fire Panel, standard cabinet c/w Z41 & Z46
Z0230000S/X ZFP 2 Loop Fire Panel, standard cabinet c/w Z41 & ZBLANK	**Z043040PS/X** ZFP 4 Loop Fire Panel, standard cabinet c/w Z41 & Z49
Z023020NS/X ZFP 2 Loop Fire Panel, standard cabinet c/w Z41 & Z44	**Z0450000M/X** ZFP 4 Loop Fire Panel, medium cabinet c/w Z41 & 3 x ZBLANK
Z023040NS/X ZFP 2 Loop Fire Panel, standard cabinet c/w Z41 & Z47	**Z0450000L/X** ZFP 4 Loop Fire Panel large cabinet c/w Z41 & 5 x ZBLANK
Z023020PS/X ZFP 2 Loop Fire Panel, standard cabinet c/w Z41 & Z46	6 & 8 loop panels coming soon - contact our sales desk for release dates*

"The ZFP is without doubt one of the most intuitive analogue addressable fire panels I have encountered. But make no mistake, there are some very sophisticated and robust electronics working behind the scenes. It is an extremely well-engineered product."
EDWARD GHORAYEB, A.T.F.S.

the tech specs