

# ZFP

**Touchscreen-Controlled  
Analogue Addressable Fire Panel**



***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."

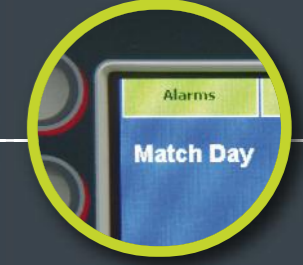
**STAN BROOKE, TECHNICAL ALARM SYSTEMS**



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."

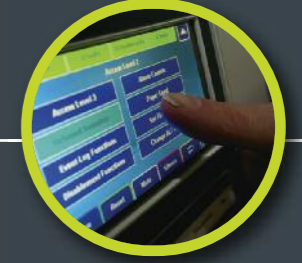
**PAUL WARD, PROCYON FIRE**



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.

"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**



Wide range of bezels & stainless steel accessories



Fully interchangeable indicator modules



Customisable labels supplied free-of-charge





### 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



## Nifty Networking

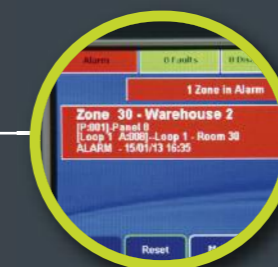
Never before has networking a fire panel been so trouble-free.

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.

"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!"

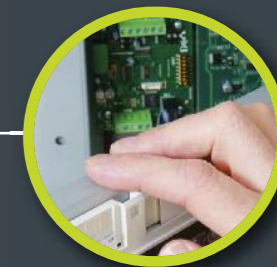
**JOHN LLOYD, GLASSLETTER**



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, optional paging facilities, powerful 500mA loop drivers with plug-on connectors, spacious cabinets with a 20-way earth bar, the ability to achieve up to 72 hours standby in a standard cabinet and intuitive PC programming tools combine to make the ZFP a very special fire panel indeed.

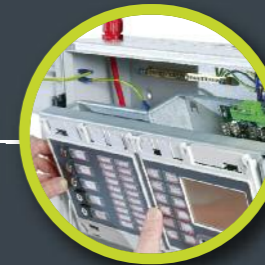
All this and full compliance with EN54 parts 2 and 4 means that the ZFP is rapidly becoming the fire panel of choice for the fire industry worldwide.

"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

	ZFP (Standard Cabinet)	ZFP (Medium Cabinet)	ZFP (Large Cabinet)
<b>Power Supply and Charger</b>			
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
<b>Loop Drivers</b>			
Number of loops	2 or 4	2, 4, 6* or 8*	2, 4, 6* or 8*
Connector block type	Plug-on type, largest acceptable cable size 2.5mm <sup>2</sup>		
Max. output current per loop	500mA (Voltage: 25V min; 34V max)		
Communication Protocol	Apollo XP95/Discovery		
Max. number of addressable devices	126 per loop (limited by protocol)		
Type of cable / Max. cable length per loop	Fire resistant screened cable, minimum size 1mm <sup>2</sup> / 1km max. length		
Max. allowable loop impedance/capacitance (each conductor)	20 ohm		
Max. cable capacitance	.27uF		
<b>Conventional Sounder Circuits (programmable &amp; monitored)</b>			
Number/type of conventional sounder circuits	2 x 1A outputs. Protected by resettable overload circuit		
Connector blocks	Plug-on type, largest acceptable cable size 2.5mm <sup>2</sup>		
Output voltage	19.5V minimum; 28V maximum		
Type of cable / Max. cable length per loop	Fire resistant screened cable, minimum size 1mm <sup>2</sup> / 1km max. length		
<b>Auxiliary Inputs (programmable)</b>			
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		
<b>Relay Outputs (programmable)</b>			
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.		
<b>Indicators and Controls</b>			
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 (one of these must be a Z41 Control/Display module)	2	4	6
<b>Communication Buses</b>			
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)		
<b>Mechanical &amp; Environmental</b>			
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		
<b>Standards Compliance</b>			
Compliant with	EN54 Parts 2 and 4		

## Network Specification

	Hi-Net Multipath Network	S-Net Singlepath Network
Network type	RS485 (hi-integrity fault tolerant)	RS485 (standard integrity non-fault tolerant)
Network PCB part no. (1 required per networked panel)	<b>ZHN</b>	<b>ZSN</b>
Maximum no. of network nodes	128 (up to 64 x 8 loop panels and 64 x compact controllers)	8
Maximum cable length between nodes	1km	-
Maximum cable length of network	128km	1km
Network topology	Ring configuration	Daisy chain configuration
Network wiring	2 core fire resistant screened cable	
Detail	Events (Fires, Faults, Disables, Tests) can be accepted over the network. Actions (Silence/Resound Sounders, Reset) can be accepted over the network. Zones, Input Groups, Output Groups, etc. can be shared over the network.	

## System Expansion

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, network PCBs, A-BUS expansion 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. Ordering details can be obtained from our Sales Desk or website at [www.c-tec.co.uk](http://www.c-tec.co.uk). Below is a selection of the various expansion devices available.

<b>Indicator &amp; Switch Module Options</b>		<b>A-BUS PCB Options</b>
Z41 Control/Display Module c/w touchscreen, keyswitch, 16 LEDs.	Z11 4 Way Relay PCB	
Z44 20 Zone Indicator Module c/w name slots	Z12 8 Way Relay PCB	
Z45 20 Zone Indicator Module c/w name slots & 5 switches	Z13 8 Way I/O PCB	
Z46 20 Zone Indicator Module c/w name slots, printer & 2 switches	Z14 16 Way I/O PCB	
Z47 40 Zone Indicator Module c/w name slots	Z15 4 Conventional 1A 6K8 Sounder Circuit PCB (full size)*	
Z48 40 Zone Indicator Module c/w 5 switches	Z16 4 Detection Zone & 2 1A 6K8 Conventional Sounder Circuit PCB*	
Z49 40 Zone Indicator Module c/w printer & 2 switches		
Z50/1-100 100 Zone Indicator Module, numbered 1-100	<b>Ethernet PCB</b>	
Z50/101-200 100 Zone Indicator Module, numbered 101-200	Z43 ZFP Ethernet PCB*	
Z51 Printer Module		
ZBLANK Blank Module		
<b>Hi-NET Compact Controller Options</b>		<b>S-NET Compact Controller Options</b>
ZREP1F Flush Compact Controller (W214 x H178 x D70mm)	ZREP2F Flush Compact Controller (W214 x H178 x D70mm)	
ZREP1S Surface Compact Controller (W214 x H178 x D70mm)	ZREP2S Surface Compact Controller (W214 x H178 x D70mm)	
<b>Flush-Fitting Bezel Options</b>		<b>Programming Software</b>
ZBEZS Flush-fit bezel for ZFP standard cabinet (W492 x H504 x D30mm)	ZTOOLS PC Programming Tools (includes software & connection lead)	
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)		
<b>Glazed Stainless Steel Frame Options</b>		
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 stainless steel frame		
ZBEZD/SL Electromagnetic solenoid lock for glazed stainless steel frame (not suitable for use with ZBEZDC/SS)		
<b>Pre-built ZFP Panels</b>		
Contact our sales desk or visit <a href="http://www.c-tec.co.uk">www.c-tec.co.uk</a> for details of our wide range of pre-built ZFP panels.		
C-TEC operates a policy of continuous improvement & we reserve the right to alter product specifications without prior notice. E&OE. Items marked * due mid-to-late 2013.		

"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



## 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



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Quality System Certificate No: 176  
Assessed to ISO9001 - 2008



**You're safe with C-TEC**

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