Context Plus

ZFP range

1 to 8 Loop EN54 Networkable Adressable Fire Panels

LPCB LOSS PREVENTION CERTIFICATION BOARD

CE

1 TO 8 LOOP EN54 NETWORKABLE ADDRESSABLE FIRE ALARM PANELS

ZFP range

Context Plus ZFP range is a fire panel that is touchscreen-controlled, a breeze to install, provides clear and constant feedback on all aspects of system activity and is fully compliant with all relevant standards. The ZFP - a powerful, intuitive and feature-rich range of 1 to 8 loop addressable fire panels from Context Plus.

ZFP standard size panel

ZFP medium size panel

ZFP Repeater

- Third-party certified to EN54 parts 2 and 4 by Intertek
- Communication protocal - Apollo XP95/Discovery
- Full compactibility with the Context Plus range of fire detectors, call points, sounders, becons and control modules.
- Three cabinet sizes - standard (1,2 or 4 loops), medium (2,4,6 or 8 loops) and large (2,4,6 or 8 loops)
- Full colour LCD touchscreen with an intuitive interface & digital QWERTY keyboard (touchscreen can be fully customised with a company logo)
- Secure fault tolerant network (needs separate network driver PCB)
- Up to 128 peer to peer node capacity (64 panels plus up to 64 Compact Controllers/Repeaters
- Very flexible cause and effects
- Wide range of Switch & Indicator modules c/w slide-in lables for straightforward customisation. (Common word processor templates available online)
- Multiple “A-Bus” peripherals (I/O Units, Relays, Sounder Extender Cards, Conventional Zone Cards, etc)
- Programmable via galvanically isolated USB port
- Up to 200 separate zonal LEDs per panel (100 on standard sized cabinets).
- 10,000 programmable and inficatable detection zones.
- Up to 38 characters of custom text per loop device.
- Wide range of supported languages.
- Emailable firmware updates (no flash programmer required)
- 20,000+ event memory (filterable by fire, fault and date)
- Automatic daylight saving (BST/GMT)
- 4 programmable operational modes.
- Optional thermal printer with front-loading paper.
- PC logging option for end-user.
- 4 GB Micro SD memory simplifies off-site configuration.
- Well-designed metal cabinets aid installation.
- 20-way heavy duty brass earth bar(s) as standard
- 72-hour standby (plus 30 min alarm) in standard cabinets.
- Powerful engineering and commisioning functions including ‘SafeMode’, ‘DeviceManager’ and more.
- Powerful and intuitive PC programming tools.
- Optional graphical interface solutions.
- Up to 18Ah batteries in standard cabinets, 38Ah in larger cabinets.

ZFP Technical Specifications

POWER SUPPLY & CHARGER

Mains Supply Operating Voltage	230VAC ± 10% 50/60Hz 810mA max.
Rated Current	810mA Max (Standard cabinet ZFPs; 1.35A Max (Medium & Large Cabinet ZFPs)
Mains Supply Operating Voltage	5A (Standard cabinet ZFPs); 5A(Medium & Large Cabinet)
Max. Continuous Output current (incl. charging)	5A (Standard cabinet ZFPs); 5A(Medium & Large Cabinet)
Max. VRLA Battery Size and Type	2 x 12V 18Ah (Standard cabinet ZFPs); 2 x 12V 38Ah (Medium & Large Cabinet)

LOOP DRIVERS

Number of loops	1, 2, 4, 6 or 8 dependent on model
Max. Output Current per Loop	500mA (Voltage: 25V min; 34V max)
Communication Protocol	Context Plus XP95 (max. 127 addressable devices per loop)
Type of Cable/Max. cable length per loop	Fire resistant screened, up to 2.5mm² /1KM max length
Max. allowable loop impedance/capacitance	20 ohm (each conductor)
Max. cable capacitance	.27uF

CONVENTIONAL SOUNDER CIRCUITS

Number/Type of Conventional Sounder Circuits	2 x 1A output. Protected by resettable overload circuit 19.5V min; 28V max.
Output Voltage	19.5V minimum, 28V maximum
Type of Cable/Max. cable length per loop	Fire resistant screened, up to 2.5mm² /1KM max length

AUXILIARY INPUTS (PROGRAMMABLE)

Numbers of Auxiliary Inputs	2 (Connect to 0V to trigger, Max. input voltage 27VDC non-latching). 6800 ohm, 5%Tol, 0.25W
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 module which comprises a full colour 4.3" touchscreen. All mandatory EN54 indicators, 3 spare LEDs & a keyswitch allowing access to AL2
Zonal Indicators	Up to 200 programmable LEDs available via Switch & Indicator expansion modules
Switches & Onboard Printers	Multiple switch & printer configs available via Switch & Indicator expansion modules
Switch & Indicator Module Capacity	2 (standard cabinets); 4 (medium cabinets); 6 (large cabinets). 1 x Z41 req. per panel

COMMUNICATION BUSES

On-Board Serial Printer (Optional)	1 x RS232 connector
Pager/DECT Interface	1 x RS232 connector
Networking	1 x RS485 connector (hi-intergrity fault-tolerant)
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)

NETWORKING

Network Type	1 x RS485 connector (hi-intergrity fault-tolerant, ring wired). 1xZHN 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, 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 cab be shared over the network

MECHANICAL & ENVIRONMENTAL

Finish & IP Rating	Light Grey texture (RAL7035) epoxy. Mild steel. Zintec 1.2mm
Operating Temperature/Humidity	-5°C to + 40°C / 5% to 95% R.H non condensing
Dimension (H x W x D) mm	462 x 450 x 200 (Standard); 720 x 450 x 200 (Medium); 960 x 450 x 200 (Large); 178 x 214 (Compact Controller)

CE

Context Plus

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Visit our website at **www.contextplus.co.uk**

Quality System Certification No: 176
Assessed to ISO9001 : 2008

LPCB Ref 176a
to BS EN 54 pts 2 & 4

Authorized Distributor for Asia Pacific

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Quality without Compromise

DETECTORS

Optical Smoke Detector
Part Number 58000-650IMC

The Context UL-Plus optical detector has a moulded self-extinguishing white polycarbonate case with wind resistant smoke inlets and an indicator LED which is clear in standby and red in alarm. Within the case is a printed circuit board which, on one side, has the light proof labrinth chamber with integral gauze surrounding the optical measuring system and, on the other, the address capture, signal processing and communications electronics. An infrared light emitting diode within its collimator is arranged at an obtuse angle to the photo-diode. The photo diode has an integral daylight-blocking filter.

- Supply voltage from 17 to 28 Volts DC
- Quiescent current at 340µA average, 600µA peak surge current at 1mA
- Two wire supply of polarity insensitive
- Operating temperature range from -20°C to +60°C
- Clear LED emitting red light as alarm indicator
- Sensitivity to nominal threshold of 2.4% light grey smoke obscuration per meter
- 0% to 95% relative humidity with no condensation or icing
- IP rating of 43
- 100mm (Diameter) x 42mm (Height)
- 105g

Heat Detector
Part Number 58000-450IMC

The Context UL-Plus heat detector has a common profile with optical smoke detector but has a lower air flow resistance case made of self-extinguishing white polycarbonate. They monitor temperature by using a single thermistor network which provides a voltage output proportional to the external air temperature.

To provide a device for use in ambient temperature up to 55°C, a temperature detector is also available. This has similar characteristics to the standard temperature detector at 25°C but reaches a 55 count (alarm) at 90°C

- Supply voltage from 17 to 28 Volts DC
- Quiescent current at 250µA average, 500µA peak, surge current at 1mA
- Two wire supply of polarity insensitive
- Operating temperature range from -20°C to +70°C
- Red light emitting diode (LED) as alarm indicator
- Sensitivity range from 25°C to 90°C (1°C/Count; -20°C returns to 8 counts)
- 0% to 95% relative humidity with no condensation or icing
- IP rating of 53
- 100mm (Diameter) x 42mm (Height)
- 105g

Multisensor Detector
Part Number 58000-750IMC

The Context UL-Plus multisensor detector contains an optical smoke sensor and a thermistor temperature sensor whose outputs are combined to give the final analogue value.

The signals from the optical smoke sensing element and the temperature sensor are independent, and represent the smoke level and the air temperature respectively in the vincinity of the detector. The detector will not respond to a slow temperature increase - even if the temperature reaches a high level. A large sudden change in temperature can, however, cause an alarm without the presense of smoke, if sustainsed for 20 seconds.

- Supply voltage from 17 to 28 Volts DC
- Quiescent current at 500µA average, 750µA peak, surge current at 1mA
- Two wire supply of polarity insensitive
- Operating temperature from minimum 0°C to +60°C continous operating; where minimum operating of -20°C
- 2 clear LEDs emitting red light as alarm indicator
- Slow changes in ambient conditions will not affect sensitivity
- 0% to 95% relative humidity with no condensation or icing
- IP rating of 43
- 100mm (Diameter) x 50mm (Height)
- 105g

10 Year WARRANTY

Context Plus

Intelligent Devices

Intelligent Manual Call Point
Model: D-108-AM-111-C

The DA-108-AM-111-C Manual Call Point is intended for indoor applications. An alarm is initiated by pressing its glass element. This device signals its status to the Context Plus fire alarm control panel using an interrupt feature within the system's digital protocol. An alarm status is indicated on the call point through a solid red LED. The manual call point can be easily test using the supplied test key. The address of the call point is set by a DIL switch.

Techincal Data

- Operating Voltage from 17 to 30 Volts DC
- Operating temperature range from -10°C to +50°C
- Addressable number range from 1 to 126
- Alarm current at 13mA
- 0 to 95% RH humidity with no condensation
- IP rating of 24D

Switch Monitor
Model: DA-111-I/P

The DA-111-1/P addressable alarm single input modules provide the Interface to connect an electrically isolated dry-contact switched inputs to Context Plus addressable fire alarm control panel.

The adressable inout module capable to monitor such as pump indication, gas discharge indication, flow switch, butterfly valve and etc. The addressable input module range provides fire detection and alarm system designers with a standards-compliant.

Techincal Data

- Operating Voltage from 17 to 30 Volts DC
- Operating temperature range from -10°C to +50°C
- Addressable Range from 1 to 126
- Alarm current at 13mA
- 0 to 95% RH humidity with no condensation
- IP rating of 34D

Output Unit
Model: DA-111-O/P

The DA-111-O/P addressable output modules provides a voltage-free single pole, change-over relay output. Its is a simplified version of the Input/Output unit without circuitry for monitoring inputs. Capable of switching up tp 30V @ 1 A. This device is capable to trip such as lift, escalator, fan, AHU, magnetic door holder and etc.

It provides the interface to connect non-addressable output devices to Context Plus addressable fire alarm control panel. The addressable output module range provides fire detection and alarm system designers with a standards-compliant, economical product for life safety and property protection application.

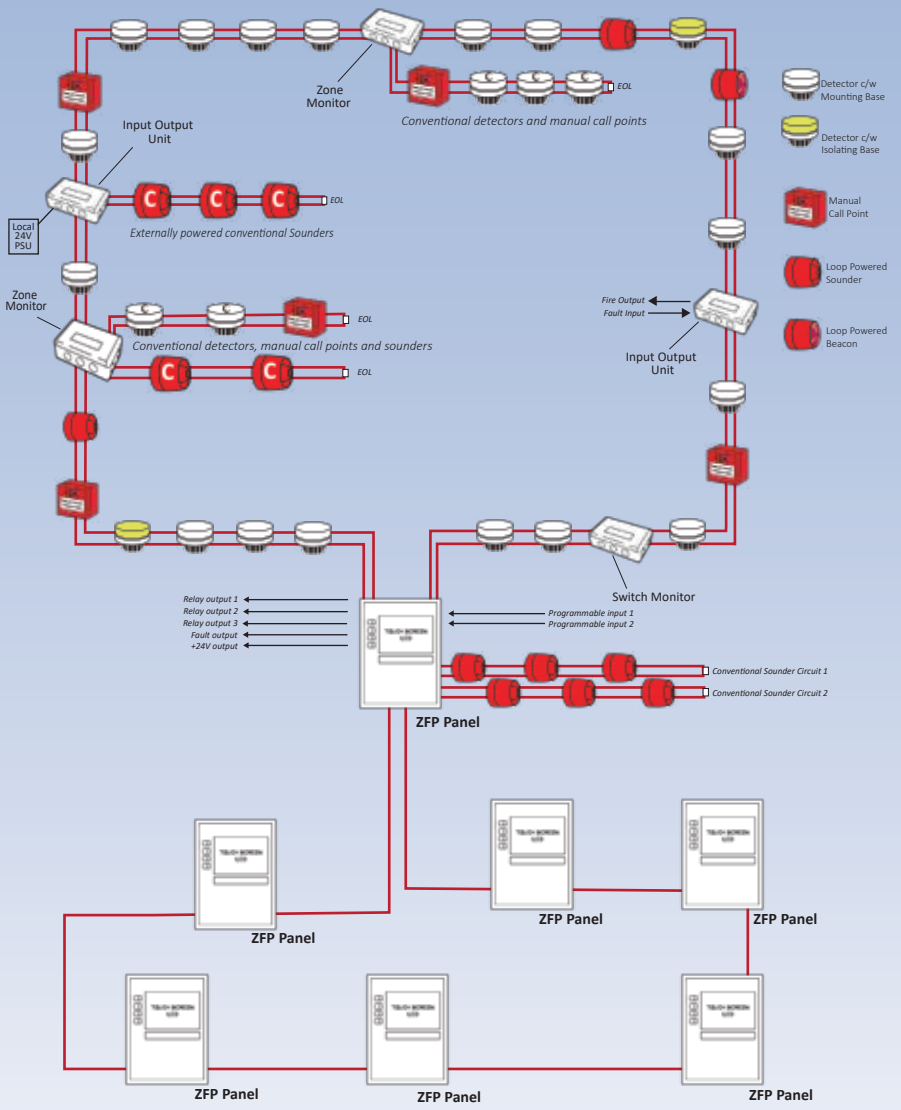
Techincal Data

- Operating Voltage from 17 to 30 Volts DC
- Operating temperature range from -10°C to +50°C
- Addressable Range from 1 to 126
- Alarm current at 13mA
- 0 to 95% RH humidity with no condensation
- IP rating of 34D

Typical Wiring

Below is a diagram of a typical ZFP analogue addressable loop fitted with a selection of detectors, loop powered sounders, modules and isolators, all connected to an ZFP 1 to 8 loop panel.

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



*installable up to 64 Panels

This diagram is provided for illustration purposes only and you should always refer to the relevant ZFP 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 THE ZFP'S NETWORK PROTOCOL

The ZFP's network protocol allows the interconnection of up to 64 ZFP main panels (any mix) over a two-wire RS485 network. Alternatively, the network can be used to connect up to 64 ZFP repeaters to one ZFP main panel. It is not possible to mix ZFP main panels and repeaters on the same network.

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

- Allows the interconnection of up to 64 ZFP main panels (any mix of 1 to 8 loops ZFP panels).
- Up to 1 km of cable may be fitted to an ZFP main panel network.
- Each networked ZFP main panel can be programmed to accept Fires, Faults and Control actions such as Silence Alarm Sounders and Control Panel Reset from other main panels. They will also Accept Disablement commands for zones, sounders and output sets from other main panels.
- All panels monitor all other panels for network wiring faults.
- Fires on remote panels are displayed on local panels including the point description of the alarm's origin.
- Faults on remote panels are displayed on local panels including the point description of detectors.
- The network supports the programming of site data into remote panels from a PC at a local panel.
- Time and date is common to all panels throughout the network.
- All networked main panels require a network communication card.

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

- Allows the connection of up to 64 ZFP repeaters to one non-networked main panel. The ZFP main panel must have a network communication card fitted.
- Up to 500m of cable may be fitted to an ZFP repeater network.
- Each ZFP repeater offers all the functions and controls of an ZFP main panel.

ZFP ORDER CODE

Z015040NS/X/CON	ZFP 1 loop Panel with 40 zonal LEDs (Z47), 5A PSU.
Z025040NS/X/CON	ZFP 2 loop Panel with 40 zonal LEDs (Z47), 5A PSU.
Z045040NS/X/CON	ZFP 4 loop Panel with 40 zonal LEDs (Z47), 5A PSU.
Z085040NM/X/CON	ZFP 8 loop Panel with 40 zonal LED s (Z47), 5A PSU.
Z14	16 Input ouput PCB (full size)
ZG2	ZFP 1 to 5 Panel Graphics Interface Package.
ZHN	ZFP RS485 Network PCB

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