

ZFP 1-8 LOOP NETWORKABLE ADDRESSABLE FIRE PANELS

SHIELD
TRUSTED WORLDWIDE



ZFP Standard Cabinet
(PART NUMBERS ON PAGE 8)



ZFP Medium Cabinet
(PART NUMBERS ON PAGE 8)



Compact Repeaters
(PART NUMBERS ON PAGE 8)



PICTURE 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. Picture the ZFP - a powerful, intuitive and feature-rich range of 1 to 8 loop addressable fire panels from Shield.

Key Features

- ▶ Third-party certified to EN54 parts 2 and 4 by Intertek
- ▶ Communication protocol - Shield XP95/Discovery
- ▶ Full compatibility with the Shield range of fire detectors, call points, sounders, beacons 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 labels 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 indicatable 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 commissioning 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.

Powerful
loop and battery
calculation tool
now available
online

ZFP 1-8 LOOP NETWORKABLE ADDRESSABLE FIRE PANELS

ZFP PART NUMBERS

Standard

ZFP PANELS WITH 40 ZONAL LEDs



Q013040NS/X/SHIELD

ZFP 1 loop Panel with 40 zonal LEDs (Z47), 5A PSU.

Q023040NS/X/SHIELD

ZFP 2 loop Panel with 40 zonal LEDs (Z47), 5A PSU.

Q043040NS/X/SHIELD

ZFP 4 loop Panel with 40 zonal LEDs (Z47), 5A PSU.

Standard

ZFP PANELS WITH 40 ZONAL LEDs & ONBOARD PRINTER



Q025040PS/X/SHIELD

ZFP 2 loop Panel with 40 zonal LEDs and on-board printer (Z49), 5A PSU.

Q045040PS/X/SHIELD

ZFP 4 loop Panel with 40 zonal LEDs and on-board printer (Z49), 5A PSU.

Compact

ZFP REPEATERS, EXPANSION PCBs & GRAPHIC INTERFACES



QREP1S

ZFP Repeater/Compact Controller. Surface mount. Requires BF360-24 1A 24V boxed PSU.

QHN

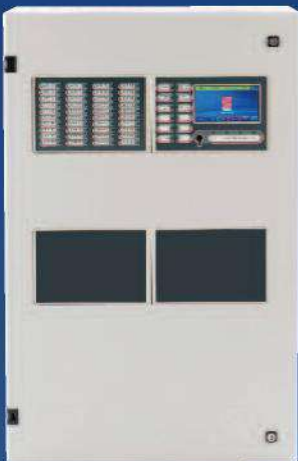
ZFP RS485 Network PCB (one req. per main ZFP panel)

Q02LOOP/X

2 loop Extender PCB. (Extends 2 loop ZFP to 4 loops)

Medium

ZFP PANELS WITH 40 ZONAL LEDs



Q065040NM/X/SHIELD

ZFP 6 loop Panel with 40 zonal LEDs

Q085040NM/X/SHIELD

ZFP 8 loop Panel with 40 zonal LEDs (Z47), 5A PSU.

Medium

ZFP PANELS WITH 40 ZONAL LEDs & ONBOARD PRINTER



Q065040PM/X/SHIELD

ZFP 6 loop Panel with 40 zonal LEDs and on-board printer (Z49), 5A PSU.

Q085040PM/X/SHIELD

ZFP 8 loop Panel with 40 zonal LEDs and on-board printer (Z49), 5A PSU.

Miscellaneous

QTOOLS ZFP programming tools (Windows)

Q11 4 Relay PCB (half size)

Q12 8 Relay PCB (full size)

Q13 8 Input output PCB (half size)

Q14 16 Input output PCB (full size)

Q15 4 x Conventional 1A 6K8 Sounder Circuit PCB (full size)

Q16 4 x Detection Zone & 2 x 1A 6K8 Sounder Circuit PCB (full size)



GRAPHICS PACKAGES

QG1 ZFP Single Panel Graphics Interface Package

QG2 ZFP 1 to 5 Panel Graphics Interface Package

QG3 ZFP 1 to 5 Panel Graphics Interface Package with TCP/IP remote access manager

QG4 ZFP 1 to 99 Panel Graphics Interface Package with TCP/IP remote access manager

Contact us for a full list of graphic package features

BEZELS, STAINLESS STEEL FRAMES & VISION WINDOWS - Contact us for details.

POWER SUPPLY & CHARGER

Mains Supply Operating Voltage	230Vac \pm 10% 50/60Hz 810mA max.
Rated current	810mA Max (Standard cabinet QFNs); 1.35A Max (Medium & Large Cabinet QFNs)
Internal power supply	5A (Standard cabinet QFNs); 5A (Medium & Large Cabinet)
Max. continuous output current (incl. charging)	5A (Standard cabinet QFNs); 5A (Medium & Large Cabinet)
Max. VRLA battery size and type	2 x 12V 18Ah (Standard cabinet QFNs); 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	Shield XP95 (max. 127 addressable devices per loop)
Type of cable / Max. cable length per loop	Fire resistant screened, up to 2.5mm ² / 1.5KM max length
Max. allowable loop impedance/capacitance	20 ohm (each conductor)
Max. cable capacitance	.27uF

CONVENTIONAL SOUNDER CIRCUITS

Number/type of conventional sounder	2 x 1A outputs. 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 2.5mm ² / 1.5KM max length

AUXILIARY INPUTS (PROGRAMMABLE)

Number 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 aux. 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-integrity 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)

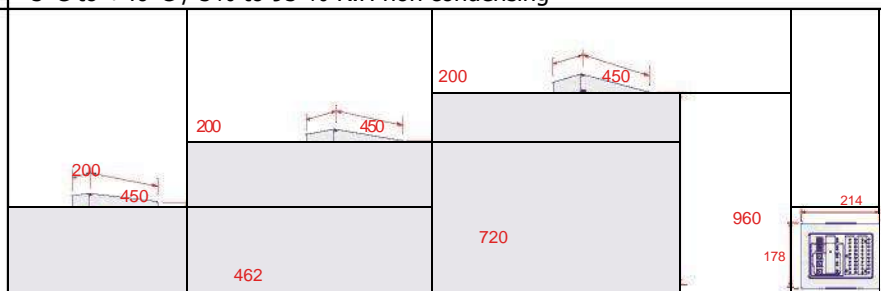
NETWORKING

Network type	RS485(hi-integrity fault tolerant, ring wired). 1xQHN 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 2.5mm ² ; 1KM between nodes; 128KM (max network length)
Network wiring	Fire resistant screened cable, up to 2.5mm ²
Detail	Events (Fires, Faults, Disablenents, Tests) & Actions (Silence/Resound Sounders, Reset) can be accepted over the network. Zones, Input & Output Groups, etc can 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

Dimensions (lid & back box) H x W x D mm



Standard (1-4 loop) (18Ah Batteries) Medium (2-4-6-8 loop) (12-38Ah Batteries) Large (2-4-6-8 loop) (12-38Ah Batteries) Compact Controller