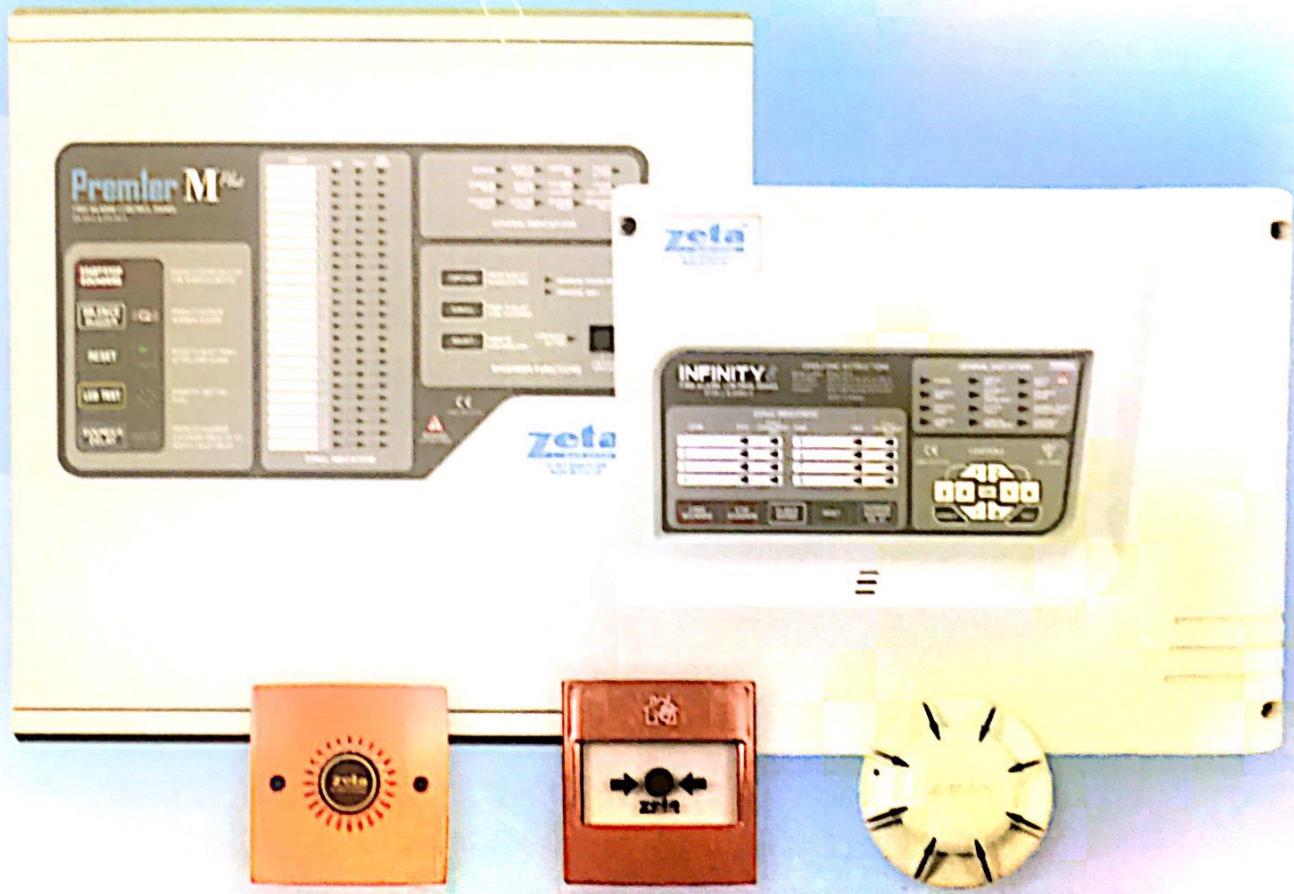


25 Years of Manufacturing Excellence



Premier M Plus & Infinity 8 Conventional Fire Alarm Systems



ARAT

Infinity 8 Conventional Fire Alarm Panel

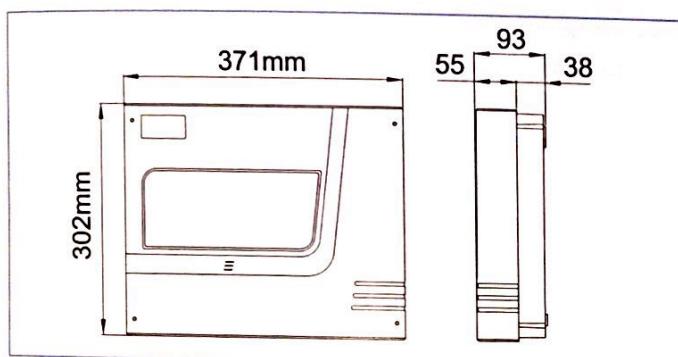
(IN1, IN2, IN4, IN6, IN8)



0086-CPD-575041



KM-575040



The Infinity 8 control panel is housed in the most attractive, modern designed, flame retardant ABS enclosure, utilising a switch mode power supply. It has a fully removable front cover which improves ease of access for cable installations.

Optional Metal Backbox

The Infinity 8 panel can also be ordered with a metal back box facilitating up to 7ah batteries to fit within the panel housing. To order this version add "/M" to the end of the model number (i.e. IN1/M, IN2/M, etc.)

Features

- ✓ Access via password — removes problem of lost keys
- ✓ One man test facility
- ✓ Disablement facility for zones & sounders
- ✓ Space for up to 3Ah batteries
- ✓ Sounder delay option
- ✓ 4 sounder circuits (IN4, IN6 & IN8)
- ✓ Sounder circuits 3 and/or 4 can be configured as Aux 24V supplies
- ✓ Meets all requirements of latest EN54 part 2 and part4

MODEL	IN1	IN2	IN4	IN6	IN8
Part No	37-650	37-651	37-652	37-653	37-654
Mains Voltage	230V AC +10% / -15% @ 50/60 Hz				
System Voltage	24V DC (Nominal)				
Zone Voltage	21V DC (Nominal)				
Sounder Alarm Output	2 x 150mA @ 24V DC	4 x 150mA @ 24V DC			
Fault Relay	1 x Volt Free Relay, SELV @ 1A Max				
Fault Relay	1 x Volt Free Relay, SELV @ 1A Max				
Zone Capacity	32 devices per zone				
Remote sounder operation	Via N/O contact connected to Class Change				
Sounder Activation Delay	0 to 10 minutes in 1 minute increments				
Zone End of line	1N4002 Diode (Cathode Stripe to Zone +ve)				
Sounder End of Line	10K resistor				
Charger Voltage	27.6V				
Battery cut off	Battery voltage less than 20V				
Battery Internal Resistance limit	0.9 ohm				
Enclosure size	375 x 316 x 90 (mm)				
Weight	3 kg (Excluding Batteries)				
Maximum battery space	2 x 3.4 Ah, 12 Vdc sealed lead acid				

Premier M Plus 8-24 Zone Conventional Fire Alarm Panel (PMP8, PMP16, PMP24)



Intertek

CE
0359-CPD-0143

The Premier M Plus control panels are designed to fulfil the requirements of EN54 parts 2 & 4 as well as being easy to install, operate and maintain.

Being of modular construction, the basic M Plus panel has 8 zone capacity, expandable to 16, 20 and 24 zones.

The Premier M Plus is suitable for surface mounting or semi-flush fitting (with just the door protruding).

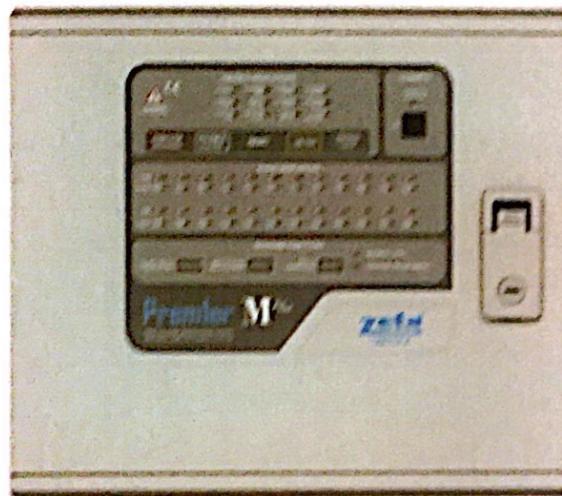
Features

- ✓ 4 Common sounder circuits (150mA each)
- ✓ Optional add-on zonal sounder circuits (50mA Max.)
- ✓ Serial repeater output
- ✓ Auxiliary supply (29 Volts, 250mA)
- ✓ Zone & sounder disablement facility
- ✓ Sounder delay facility
- ✓ Zonal to common timer (when fitted with zonal sounder boards)
- ✓ One man test mode

Model	PMP8	PMP16	PMP24
Part No.	37-020	37-022	37-024
Detection Zones	8	16	24
Mains Voltage	230V AC +10% / -15% @ 50/60 Hz		
System Voltage	24V DC (nominal)		
Zone Voltage	21V DC		
Sounder Alarm Output	4 x 150mA @ 24V DC		
Fault Relay Output	1 x relay SELV @ 1A maximum		
Fire Relay Output	1 x relay SELV @ 1A maximum		
Zone Capacity	32 Devices		
Remote Sounder Activation	N/A		
Sounder Activation Delay	0 — 9 minutes in 1 minute increments		
Zone End Of Line	IN4002 Diode		
Sounder End Of Line	10K Ω Resistor		
Charger Voltage	28.4V DC (batteries disconnected)		
Zone Short Circuit Protection	100mA		
Charger Short Circuit Protection	Batteries less than 20V		
Charger Size	3.0 Amp		
Operating Temperature	0°C - 50°C		
Enclosure Size	485 x 477.5 x 125mm		

Premier M Plus Repeater Panel

(PMP-REP, PMP-REP/M)



The Premier M Plus repeater is available in 2 versions — standard (PMP-REP) & multiple (PMP-REP/M).

The standard repeater offers display & control functions, however it is limited to one per system.

The second version allows multiple repeaters on the same system however they do not have any control functions (i.e. they cannot be used to silence or reset the system).

A single repeater can be powered from the panel's auxiliary 24V supply. If more than one repeater is to be used, a separate 24V is required.

Model	PMP-REP	PMP-REP/M
Part No.	37-026	37-027
Functions	Display & control	Control only
Supply Voltage	20-30V DC	
Max. Quantity Per System	1	5
Connections	Serial Repeater A	
	Serial Repeater B	
	+24V DC	
	0V	
Operating Temperature	0°C to 50°C	
Enclosure Size	375 x 335 x 125mm	
Weight	TBC	

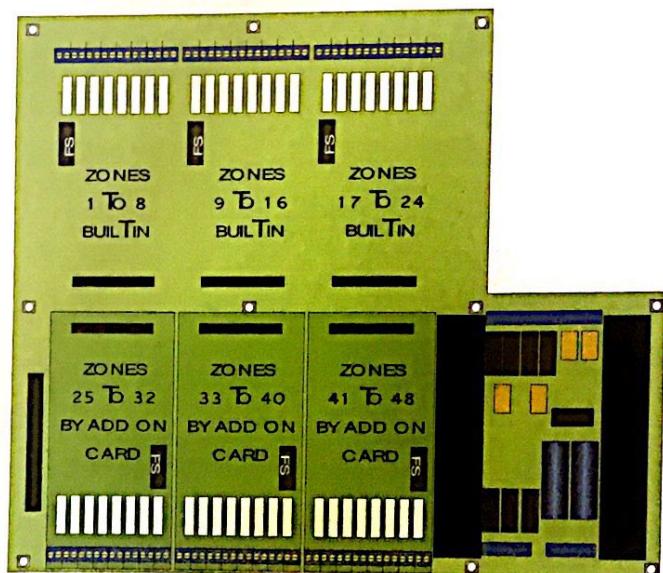


The Premier 48M Plus control panels are designed to fulfill the requirements of EN54 parts 2 & 4 as well as being easy to install, operate & maintain.

Being of modular design, the basic panel has 24 zones built in, and it can be expanded to 28, 32, 36, 40, 44 & 48 zones by using combinations of M+4Z and M+8Z expansion modules. These are the same modules as used on the Premier M+ panel.

Unlike the Premier M+, this panel does NOT support zonal alarm circuits.

The construction of the panel is epoxy painted steel enclosure, with top & rear cable entries.



MODEL	PMP48
PART NO	37-030
SUPPLY VOLTAGE	230V AC +10%/-15% @ 50/60 Hz
SYSTEM VOLTAGE	29V DC (Nominal)
DETECTION ZONES	24
EXPANDABLE TO	28, 32, 36, 40, 44 & 48
ZONE VOLTAGE	21V DC
ZONE END OF LINE	100µF capacitor
ZONE CAPACITY	Up to 32 Devices
SOUNDER OUTPUT	4 X 400mA @ 24V DC
SOUNDER EOL	10K Resistor
SOUNDER DELAY	0 TO 9 Minutes
FIRE RELAY	1 Relay, SELV @ 1A
FAULT RELAY	1 Relay, SELV @ 1A (Normally Energised)
OTHER CONNECTIONS	Class Change Input (N/O Contact) / F.A.R.E. Output / Serial Repeater Output (4 Wire)
CHARGER SIZE	3 Amp
CHARGER VOLTAGE	28.4V DC (Batteries disconnected)
IP RATING	IP43
OPERATING TEMPERATURE	-0°C to 50°C
ENCLOSURE SIZE	675 x 480 x 135 mm
WEIGHT	13 kg

Fyreye MkII Conventional Detectors

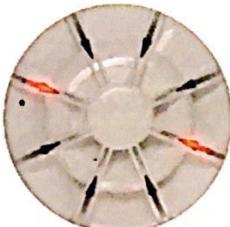
(MKII-OP, MKII-OH, MKII-HF, MKII-HR)



MKII-OP



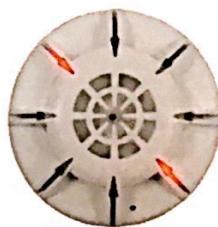
DIFT



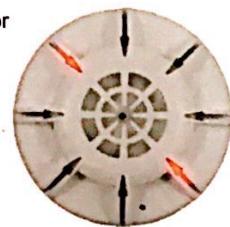
MKII-OH



See table below for
CPD numbers



MKII-HF



MKII-HR

The Fyreye MkII optical smoke detectors use a pulsing IF LED & photodiode to detect IR scatter caused by smoke entering the chamber.

The detector is particularly suitable for detecting optically dense smoke, involving materials such as soft furnishings, PVC, plastic, foam and all similar materials which produce small visible particles (0.5 to 10µm).

The Fyreye Rate of Rise heat detectors (MKII-HR) use a thermistor arrangement to sense a quick rise in temperature and also a final threshold temperature of 57°C. The Fyreye fixed heat detector (MKII-HF) has a single thermistor arrangement that gives an alarm at a temperature of 90°C.

Features

- ✓ Designed to meet EN54 requirement
- ✓ Lockable to base to stop unauthorised removal
- ✓ Remote LED output
- ✓ Compatible with all Fyreye bases

Model	MKII-OP	MKII-OH	MKII-HF	MKII-HR
Part No.	80-200	80-206	80-204	80-202
Detector Class	Optical Smoke	Combined Smoke & Heat	Fixed Heat Only	Rate of Rise & Fixed Heat Detector
Design Standard	EN54 part 7	EN54 parts 5 & 7	EN54 part 5	EN54 part 5
Approval	DIFT			
CPD Number	0845-CPD-232.1700	0845-CPD-232.1703	0845-CPD-232.1701	0845-CPD-232.1702
Operating Voltage	9-33V DC			
Quiescent Current	40µA			
Alarm Current @ 24V DC	34mA			
Operating Temperature	-10°C to +50°C			
Minimum Continuous Temperature	0°C			
Maximum Humidity	95% RH non-condensing			
Alarm Condition	2.4% obscuration per metre		Fixed heat trigger @90°C	Rate of rise or fixed heat trigger @ 57°C
Coverage	100m²		50m²	
IP Rating	IP43			
Start-up Time	10 Seconds			
Size (with Base)	100 x 48 mm	101 x 64 mm	100 x 48 mm	100 x 48 mm
Weight (with Base)	75g (133g)			

Bases

There are 4 types of mounting base available; standard or deep and with or without diode.

Model	MKII-CB	MKII-CB/D	MKII-DB	MKII-DB/D
Part No.	80-220	80-221	80-222	80-223
Type	Common Base	Common Base	Diode Base	Diode Base
Size	100 x 16mm	100 x 32mm	100 x 16mm	100 x 32mm
Weight	53g	64g	53.2g	64.2g

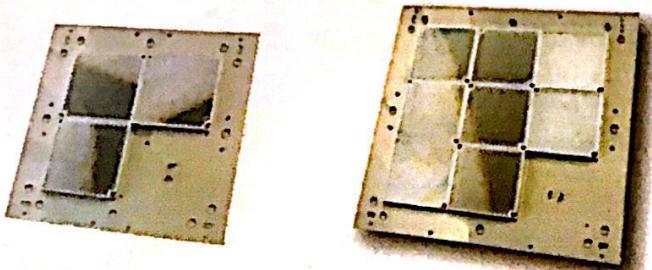
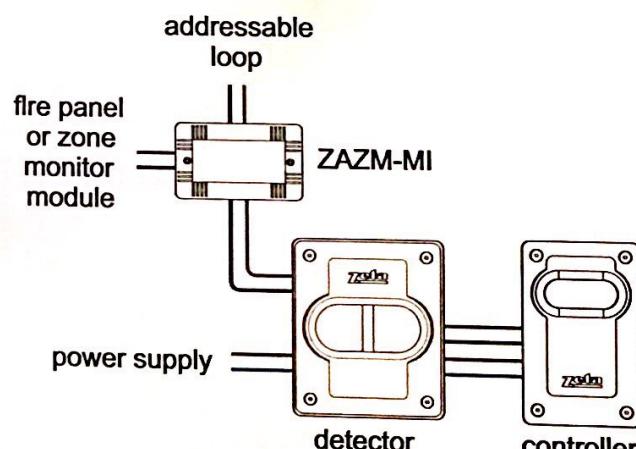
Zeta Beam Motorised Reflective Optical Beam Smoke Detector (ZT-BEAM, ZT-BEAM/KIT80, ZT-BEAM/KIT100)



Developed to overcome the problems of old outdated technology in beam detection, this motorised beam now means that beam detection can be used reliably to produce cost effective solutions for protecting large areas.

Building movement and accessibility have in the past, made beam detection unreliable, difficult, time consuming to commission and hard to maintain, but now by using the advanced motorised technology of the fire beam unreliability is no longer a problem. The ZT-BEAM will self align itself to the centre of the reflector when commissioning and will automatically keep alignment with the reflector when building movement occurs. This intelligent motorisation will mean less false alarms therefore saving time, resources, reputations and ultimately money.

Connection Diagram



ZT-BEAM/KIT80

ZT-BEAM/KIT100

Features

- ✓ Motorised head unit
- ✓ Controller unit (mounted at low level)
- ✓ Designed to comply with EN54 part 2
- ✓ Compatible with most major fire panels
- ✓ Very low power consumption
- ✓ Uses only 3mA at all times

Additional System Components

- ✓ ZT-BEAM/KIT80 Mid range kit for distances between 40 and 80 metres.
- ✓ ZT-BEAM/KIT100 Long range kit for distances between 80 and 100 metres.

Order Information

For 40m Beam	ZT-BEAM
For 80m Beam	ZT-BEAM + KIT/80
For 120m Beam	ZT-BEAM + KIT/100
For Zone Monitor Module	ZAZM-MI