

EFBW series - BiWire Flexi control panel



BiWire Flexi combines two technologies to provide a truly versatile fire safety solution.

The panel can be configured to allow either two-wire or conventional devices to work on a zone. Each zone is individually configurable so a mixture of types can therefore be installed on the same system. This provides you with the flexibility to utilise all the time-saving benefits of a two-wire system with the ability to use a wide range of conventional devices, where required.

Flexi relieves the pressure of system selection. It is the perfect solution for electrical installers and distributors as it takes complexity out of the decision when specifying a fire system. It can be wired to meet the requirements of a variety of applications and is well suited to extend an existing fire system.

It shares the same straightforward, intuitive interface as the BiWire Ultra and EFCV8Zone conventional panels, providing a proven solution for simple programming and maintenance.

The BiWire Flexi fire alarm system is certified to EN54 part2 and part 4 and is designed to meet the recommendations of BS5839.

Features

- Configure zone wiring to work as either a conventional or two-wire system
- Available in 2, 4 and 8 zone variants
- Allows the connection of an existing conventional system to a BiWire system
- Compatible with two-wire and conventional EN 54-23 certified visual alarm devices (VADs)

Benefits

- Reduces stock-holding and enables the fire system to adapt to the demands of the customer or application
- Simple to sell and specify, Flexi can be used in a wide variety of applications and is very simple to install
- Save time, money and effort when undertaking system extensions and upgrades
- Up-to-date with latest regulations

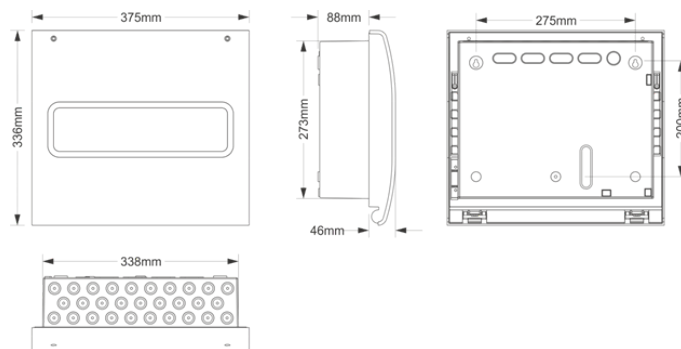
Specifier's guide

4.2 Control panels and repeater panels

Technical specification

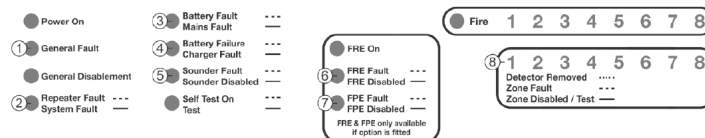
Reference	EFBW2Z-FLEXI	EFBW4Z-FLEXI	EFBW8Z-FLEXI
Description	2 zone panel	4 zone panel	8 zone panel
Power Specification (2x MB512 batteries required. Batteries not included).			
Input Voltage Range	18.75-30.7V		
Maximum Current Drawn From Battery	2.7A		
Zone Circuits			
Number of Zones	2	4	8
Devices Per Zone	<ul style="list-style-type: none"> • BiWire Mode: Max of 32 BiWire Detectors and Manual Call Points, total loading including BiWire sounders cannot exceed 200mA in alarm • Conventional Mode: Max 32 Conventional Detectors and Manual Call Points • Intrinsically Safe Conventional Mode: Max of 10 intrinsically Safe Detectors and Manual Call Point 		
Maximum Loading per Zone	200mA		
Standby Zone Voltage	Vmin 19V dc Vmax 23V dc		
Alarm Zone Voltage	Vmin 31V dc Vmax 33V dc		
Fuse Protection Per Zone	250mA PTC		
End of Line Termination	BiWire Zones = EOLM-3 Only Standard Conventional Zones = EOLM-1 Only Intrinsically Safe Zones = 6K8 resistor		
Conventional Sounder Circuits			
Number of Sounder Circuit	<ul style="list-style-type: none"> • BiWire Flexi 2 & 4 zone panels have 2 conventional sounder circuits • BiWire Flexi 8 zone panel has no conventional sounder circuits if all zones are in BiWire mode • BiWire Flexi 8 zone panel has 2 conventional sounder circuits if up to 4 zones are in conventional mode • BiWire Flexi 8 zone panel has 4 conventional sounder circuits if 5 or more zones are in conventional mode 		
Maximum Loading Per Circuit	500mA		
Fuse Protection Per Circuit	500mA PTC		
End of Line Termination	6K8 Resistor		
Unmonitored Outputs			
Fire, Fault, Interlink Relay	Type	Volt-Free, Single Pole Double Throw	
	Rating	30V DC, 1A	
	Fuse	500mA PTC	
Auxiliary Output	V	18.15-30.7V	
	I _{max}	50mA	
	Fuse	50mA PTC	
Unmonitored Inputs			
Class Change	Type	Open Circuit = Normal Panel Operation Short Circuit = Activate All Sounders	
Communications Ports			
Repeater Port (use of this port is outside the scope of EN54)	Type	RS485	
	Nodes	1	
Environmental			
Operating Temperature	-5°C to +40°C		
Relative Humidity	93% +/-3% non-condensing		
IP Rating	IP30		
Mechanical			
Weight (excluding batteries)	2.25kg		
Materials	PC ABS Front and Rear		
Cabling			
Cable Access	29 x 20mm drill positions - Slots for rear cable entry		
Cable Type	Firetuf FT120 / FP200 Cable type 2 core 1.5mm, screened fire rated cable, 500m (Max per zone)		
Compliance			
Standards	EN54 Part 2 CIE & Part 4 PSE, BS5839-pt1		

Dimensions



Description	Height (mm)	Width (mm)	Depth (mm)
Complete Panel	336	375	134
Back-box	273	338	88

Status indication



1. When the fire panel enters a fault condition it will turn on the General Fault indicator and the appropriate fault indicator (refer to 8 for more details). The panel buzzer will sound a slow pulsing tone.
2. System Fault – Severe failure of the panel, the service company must be contacted immediately.
Repeater Fault – Communication with a repeater panel has been lost
3. Battery Fault – Battery voltage missing
Mains Fault – Mains supply missing
4. Battery Failure – Battery impedance failure
Charger Fault – Charger voltage missing
5. Sounder Fault – Short circuit or open circuit condition detected on the sounder circuit will prevent the activation of sounders if fitted on that sounder circuit
6. FRE Fault – Short circuit or open circuit condition detected on the FRE output
7. FPE Fault – Short circuit or open circuit condition detected on the FPE output
8. Zone Fault – Short circuit or open circuit condition detected on the zone.

Catalogue numbers

Description	Code
2 zone BiWire Flexi panel	EFBW2ZFLEXI
4 zone BiWire Flexi panel	EFBW4ZFLEXI
8 zone BiWire Flexi panel	EFBW8ZFLEXI
2 zone relays + FRE/FPE	BWOB2Z
4 zone relays + FRE/FPE	BWOB4Z
8 zone relays + FRE/FPE	BWOB8Z
BiWire End of line module	BWEOLM-3
Conventional End of line module	EOLM-1
12V, 5Ah battery (1pc*)	MB512

*2 required