# 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

Powering Business Worldwide

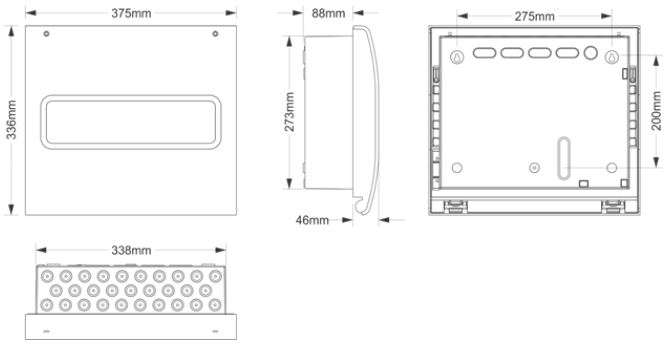
# Specifier's guide

4.2 Control panels and repeater panels

## Technical specification

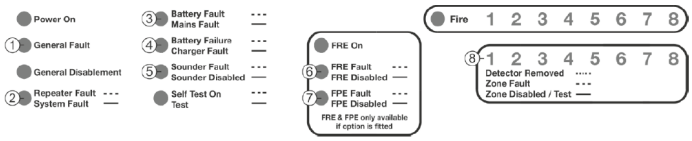
| Reference | EFBW2Z-FLEXI | EFBW4Z-FLEXI | EFBW8Z-FLEXI |
|---|---|---|---|
| Description | 2 zone panel | 4 zone panel | 8 zone panel |
| **Power Specification (2x MB512 batteries required. Batteries not included).** | | | |
| Input Voltage Range | 18.75-30.7V | | |
| Maximum Current Drawn From Battery | 2.7A | | |
| **Zone Circuits** | | | |
| Number of Zones | 2 | 4 | 8 |
| Devices Per Zone | • BiWire Mode: Max of 32 BiWire Detectors and Manual Call Points, total loading including BiWire sounders cannot exceed 200mA in alarm<br>• Conventional Mode: Max 32 Conventional Detectors and Manual Call Points<br>• 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<br>Standard Conventional Zones = EOLM-1 Only<br>Intrinsically Safe Zones = 6K8 resistor | | |
| **Conventional Sounder Circuits** | | | |
| Number of Sounder Circuit | • BiWire Flexi 2 & 4 zone panels have 2 conventional sounder circuits<br>• BiWire Flexi 8 zone panel has no conventional sounder circuits if all zones are in BiWire mode<br>• BiWire Flexi 8 zone panel has 2 conventional sounder circuits if up to 4 zones are in conventional mode<br>• 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 | |
| | Imax | 50mA | |
| | Fuse | 50mA PTC | |
| **Unmonitored Inputs** | | | |
| Class Change | Type | Open Circuit = Normal Panel Operation<br>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*)<br>*2 required | MB512 |