

EFCV series - Conventional control panel



Eaton's 8 zone conventional fire system panel delivers a straightforward, intuitive interface that makes programming and maintenance simple.

Approved to EN54-2&4, it offers a comprehensive set of functionalities in a modern, robust and discreet enclosure. Its appearance and performance make the panel well suited for life safety notification in a wide variety of small to medium sized buildings, particularly schools, warehouses, retail stores and office buildings.

With the addition of an isolator barrier the panel has the additional flexibility to monitor standard or intrinsically safe conventional zone circuits, making it suitable for industrial applications.

	EFCV8ZONE
No. of zones	8
Detectors per zone	32
Maximum loading per zone	32mA
Repeater Port	✓
No. of sounder circuits	4
Maximum loading per sounder circuit	250mA

Features

- Zones switchable between standard conventional and intrinsically safe zones (using isolator barrier)
- One man test facility
- Class change input
- Interlink relay functionality for connecting 2 panels together
- Supports an expansion card for Fire Routing Equipment, Fire Protection Equipment and fire relays per zone.
- Modern and discreet enclosure

Benefits

- Flexibility to configure zones to work in ATEX areas using an isolator barrier
- Simple system testing by a single fire alarm technician
- Capability to sound class change bell in schools
- Interlink relay allows for greater system flexibility
- Comprehensive protection for safety of building occupants
- Panel not out of place in public areas

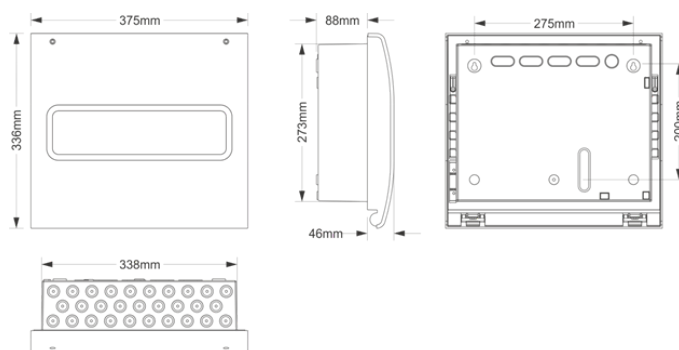
Specifier's guide

4.2 Control panels and repeater panels

Technical specification

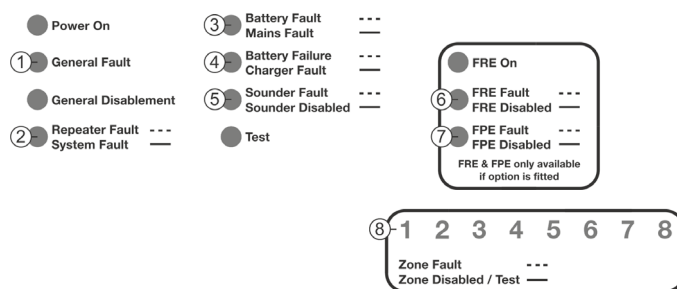
Reference	EFCV8Z	
Description	8 zone conventional panel	
Power Specification		
Input Voltage Range	18.75-30.7V	
Maximum Current Drawn From Battery	2.7A	
Zone Circuits		
Number of Zones	8	
Maximum Loading Per Zone	Standard Mode: 32 Detectors and manual call points Intrinsically Safe Mode: 10 Detectors and manual call points	
Zone Voltage	Vmin 19V dc Vmax 23V dc	
Alarm Resistor	Rmin100Ω / Rmax 750Ω	
Fuse Protection Per Zone	250mA PTC	
End of Line Termination	Standard Conventional Zones = EOLM-1 Only Intrinsically Safe Zones = 5K1 Resistor	
Conventional Sounder Circuits		
Number of Sounder Circuit	4	
Maximum Loading Per Circuit	250mA	
Fuse Protection Per Circuit	250mA 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 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		
Dimensions	375mm (W) x 366mm (H) x 134mm (D)	
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	
Batteries (supplied with panel)		
Sealed lead acid	2x 12V, 5Ah batteries	

Dimensions



Description	Height (mm)	Width (mm)	Depth (mm)
Complete Panel	336	375	134
Backbox	273	338	88

Status indication



- 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.
- System Fault – Severe failure of the panel, the service company must be contacted immediately.
Repeater Fault – Communication with a repeater panel has been lost
- Battery Fault – Battery voltage missing
Mains Fault – Mains supply missing
- Battery Failure – Battery impedance failure
Charger Fault – Charger voltage missing
- 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
- FRE Fault – Short circuit or open circuit condition detected on the FRE output
- FPE Fault – Short circuit or open circuit condition detected on the FPE output
- Zone Fault – Short circuit or open circuit condition detected on the zone.

Catalogue numbers

Description	Code
Eaton 8 zone conventional panel	EFCV8Z
End of line module	EOLM-1
8 zone relays + FRE/FPE	BWO8Z