

FALCON

Fire Alarm Control Panel 8 - 16 Zone

- 8 Monitored conventional detection zones expandable up to 16 zones
- Each zone supports up to 32 conventional devices (optical and/or thermal detectors and manual call points)



Overview

The FALCON conventional panel is an expandable fire detection system designed to meet the demands of large-scale systems.

It features an aesthetically appealing design, with a functional enclosure suitable for larger installations, while maintaining the ease of installation, commissioning, and operational simplicity typically associated with conventional systems.

The FALCON conventional system can be easily expanded using EXP-CONV-4Z2S2R expansion module, accommodating 4 zones 2 sounders and 2 relays. With these modules, the control panels can be easily expanded from 8 to 12 or, up to a maximum of 16 zones.

The FALCON is the perfect choice for larger and more complex fire detection systems.

Features

- Expansion of the number of zones using the a-zone module, EXP-CONV-4Z2S2R up to a maximum of 2 modules, corresponding to 16 zones
- 4 monitored sounder outputs, max 250mA current output per circuit

- Expansion of the number of sounder outputs using the module EXP-CONV-4Z2S2R up to a maximum of 2 modules, corresponding to 4 extra sounders
- Expansion of the number of relays outputs using the module, EXP-CONV-4Z2S2R up to a maximum of 2 modules, corresponding to 4 extra relays
- 4 x 2A, 30Vdc non-monitored relay outputs for Fire, Fault, and 2x Programmable actions
- 2 Auxiliary Supplies: shared output current to a maximum of 900 mA for additional power options or expansion modules supply
- 2 non-monitored configurable inputs to trigger pre-programmed actions
- Programmable Zone Timers
- Programmable Zone Coincidences for adjacent zones
- Key switch for mode selection
- Backlit Graphical and alphanumeric LCD display
- Programming can be done using the integrated keypad or PC software
- Event log with storage for up to 10,000 events for thorough analysis
- CPR certification according to EN54-2 and EN54-4 standards

Technical Specifications

Feature Description	Specification
Power Supply	
Mains Supply Voltage	90~264 V AC 50/60 Hz – DC input operation possible by connecting AC/N(+), AC/L(-)
Internal Power Supply	28.5 V DC @ 2.4 A (65 W)
Main Fuse	4 A - Surge protected (slow blow) 20 mm HRC
Max Output Current	2.28 A @ 230 V AC
Quiescent Current	40 mA (without devices)
I Min; I Max A; I Max B	50 mA; 1 A; 1400 mA
Internal Battery Capacity (Max)	2x 12 V DC 12 Ah (sealed lead acid batteries; Ri < 1 ohm)
Battery Charging Current	500 mA
Current Output From Battery	1400 mA (Max)
Monitoring	Mains Supply/Battery Charger Failure Monitoring, Batteries Monitoring, and Earth Fault Monitoring (All: Yes)
Zones	
Fire Zone Detection	8, 12, or 16 Fire Zones with programmable coincidence zone capability
Max Devices Per Circuit	32 (Detectors & Call Points combined)
Max Cable Length Per Circuit	500 m
Zone Monitoring	Monitoring for Open, Short Circuits, and Faults (as per EN54-2 and EN54-4)
Zone End Of Line (EOL) Value	Active EOL – 10µF/50 Bipolar Capacitor
Sounder Outputs	
Number of Sounder Circuits	4x Monitored outputs (expandable to 8 with external module); 1x Standard Fire and 3x Zonal Fire
Sounders Output Rating	21 V DC to 30 V DC; 4x 250mA per circuit (Protected with 1.1 A Resettable fuse)
Line Monitoring	Monitoring for Open, Short Circuits, and Faults (as per EN54-2 and EN54-4)
Sounders EOL Resistor Value	10 kΩ

Feature Description	Specification
Auxiliary Inputs & Outputs	
Remote Inputs	2x Non-monitored ports (Programmable: Reset, Evac/Silence, Selected I/O)
Auxiliary Power Outputs	1x 24 V DC + 1x 24 V DC switched (900 mA total available; Protected with 1.1 A Resettable fuse)
Fire Relay	1x Nominal voltage @ 30V DC / 0.5 @ 120 V AC / 0.25 A @ 240 V AC (Resistive load)
Fault Relay	1x Nominal voltage 2 A @ 30 V DC / 0.5 @ 120 V AC / 0.25 A @ 240 V AC (Resistive load)
Auxiliary Outputs 1 & 2	2x Nominal voltage 2 A @ 30 V DC / 0.5 @ 120 V AC / 0.25 A @ 240 V AC (Configurable resistive load)
Interface & Communication	
User Interface	Graphical LCD and Keypad (level)
Communication Channels	3 Configurable Channels
USB Port	USB Type B
Event Log	10,000 events
Physical	
Dimensions	273 (L) x 404 (H) x 142 (W) mm (Deep box)
Weight	2 Kg (without batteries)
Colour Options	White (RAL 9003) - Standard Red (RAL 3001) - Special order Anthracite (RAL 7016) - Special order
Environmental	
Operating Temperature	-5°C to +40°C
Max Humidity	95% RH
IP Rating	IP30 (Indoor use only) - Type A

Ordering Information

Order Code	Part No.	Description
586-A	586-A	Falcon 8 Zone Conventional Panel with LCD Display
587-A	587-A	Falcon 12 Zone Conventional Panel with LCD Display
588-A	588-A	Falcon 16 Zone Conventional Panel with LCD Display

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