



# FALCON

## FIRE ALARM CONTROL PANEL 8-16 ZONES



EN54-2:1997  
EN54-2:1997/AC:1999  
EN54-2:1997/A1:2006  
EN54-4:1997  
EN54-4:1997/AC:1999  
EN54-4:1997/A1:2002  
EN54-4:1997/A2:2006

CERTIFIED

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 16 zones, up to a maximum of 16 zones. The FALCON is the perfect choice for larger and more complex fire detection systems

### KEY FEATURES

- 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)
- Expansion of the number of zones using the 4-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-monitorized 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



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- Programmable Zone Timers
- Programmable Zone Coincidences for adjacent zones
- Key switch for mode selection
- Backlit Graphical LCD display and alphanumeric
- 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 (PENDING)

## TECHNICAL SPECIFICATIONS

MAINS SUPPLY VOLTAGE	90~264 VAC 50/60 Hz – DC input operation possible by connecting AC/N(+), AC/L(-)
INTERNAL POWER SUPPLY	28.5V DC @ 2.4A 65W
MAIN FUSE	4A - Surge protected (slow blow) 20mm HRC
MAX OUTPUT CURRENT	2.28A @ 230V AC
INTERNAL BATTERY CAPACITY - MAXIMUM	2x 12V DC 12Ah - sealed lead acid batteries; Ri < 1ohm
MAINS SUPPLY/BATTERY CHARGER FAILURE MONITORING	Yes
BATTERIES MONITORING	Yes
EARTH FAULT MONITORING	Yes
FIRE ZONE DETECTION	8, 12 or 16 Fire Zones detection with programmable coincidence zone capability.
MAX COMBINE DETECTORS & CALL POINTS PER CIRCUIT	32 devices
MAX CABLE LENGTH PER CIRCUIT	500m
QUIESCENT CURRENT (WITHOUT DEVICES)	40 mA
I MIN.; I MAX A; I MAX B	50 mA; 1 A; 1400 mA
MAXIMUM CURRENT OUTPUT FROM BATTERY	1400 mA
BATTERY CHARGING CURRENT	500 mA
ZONE MONITORING TO OPEN, SHORT CIRCUITS, FAULTS	Yes, as per EN54-2 and EN54-4
ZONE END OF LINE VALUE	Active EOL – 10µF/50 Bipolar Capacitor
NUMBER OF CONVENTIONAL SOUNDER CIRCUITS	4x Monitored outputs – expandable to 8 with external module 1x Standard Fire and 3x Zonal Fire
LINE MONITORING TO OPEN, SHORTS CIRCUITS, FAULTS	Yes, as per EN54-2 and EN54-4
SOUNDERS OUTPUT RATING	21V DC to 30V DC 4 x 250mA per circuit; Protected with 1.1 A Resettable fuse
SOUNDERS END OF LINE RESISTOR VALUE	10 kΩ
REMOTE INPUTS	2x Non monitored ports (Programmable inputs - Reset; Evac/Silence; Selected I/O
NUMBER OF AUXILIARY OUTPUTS	1 x 24V DC + 1 x 24V DC SWITCHED, both divided by 900mA total available. Protected with 1.1 A Resettable fuse
KEYSWITCH	Access level
FIRE RELAY AUXILIARY OUTPUT	1x Nominal voltage @ 30V DC resistive load / 0.5 @ 120V AC resistive load/ 0.25A @ 240V AC non-configurable resistive load
FAULT RELAY AUXILIARY OUTPUT	1x Nominal voltage 2A @ 30V DC resistive load / 0.5 @ 120V AC resistive load / 0.25A @ 240V AC non-configurable resistive load
AUXILIARY OUTPUTS 1 and 2	2x Nominal voltage 2A @ 30V DC resistive load / 0.5 @ 120V AC resistive load / 0.25A @ 240V AC configurable resistive load



GRAPHICAL LCD	Yes
COMMUNICATION CHANNELS	3 Configurable Channels
COMMUNICATION USB PORT	USB Type B
EVENT LOG	10,000 events
OPERATING TEMPERATURE	-5°C to +40°C
HUMIDITY	Max. 95% RH
DIMENSIONS	Deep box: 273 (L) x 404 (H) x 142 (W) mm
WEIGHT	2 kg without batteries
IP RATING	IP30 (Indoor use only) - Type A
COLOUR	White (RAL 9003); Red (RAL 3001); Anthracite (RAL 7016)

## ORDER CODE

FALCON 8	FIRE ALARM CONTROL PANEL 8 ZONES	0370-CPR-7925
FALCON 12	FIRE ALARM CONTROL PANEL 12 ZONES	0370-CPR-7925
FALCON 16	FIRE ALARM CONTROL PANEL 16 ZONES	0370-CPR-7925
FALCON 8K	FIRE ALARM CONTROL PANEL 8 ZONES WITH KEY	0370-CPR-7925
FALCON 12K	FIRE ALARM CONTROL PANEL 12 ZONES WITH KEY	0370-CPR-7925
FALCON 16K	FIRE ALARM CONTROL PANEL 16 ZONES WITH KEY	0370-CPR-7925

