



FALCON EX

EXTINGUISHING ALARM CONTROL PANEL



EN54-2, EN54-4 and
EN12094-1
CERTIFICATION
PENDING

The FALCON EX is an advanced fire detection and extinguishing control system that ensures top-notch safety and protection for commercial and industrial spaces. The control equipment is a combined fire alarm control panel and extinguishing system and has three detection zones, any or all of which can contribute to the extinguishant release decision. Each zone can accommodate up to 32 conventional devices, including optical and/or thermal detectors and manual call points.

The system offers programmable and independent end-of-line resistive and capacitive configurations, giving users flexibility in tailoring the system to their specific needs. Additionally, it includes a monitored flooding/extinguishing zone that enables swift activation of suppression systems.

The FALCON EX complies with EN12094-1 standards, featuring five monitored inputs for extinguishing monitoring (Activate, Abort/Hold, Flow, Valve monitor, Low Pressure monitor). The key switch allows manual or automatic mode selection, granting users control over the system's operation. Connectivity options such as RS485, Fiber-Optic, or TCP/IP allow the system to be connected to a repeater, enabling seamless communication and monitoring over extended distances. User-friendly features include a backlit graphical LCD display and alphanumeric keypad, simplifying system configuration and status monitoring.

To ensure timely response to critical situations, FALCON EX can send SMS and EMAIL notifications adapting an TCP/IP-WEB interface. The system is CPR certified according to EN54-2, EN54-4, and EN12094-1 standards, guaranteeing compliance with stringent safety regulation.

- 2 Monitored Conventional Detection Zones with programmable coincidence zone capability
- Each zone supports up to 32 conventional devices (optical and/or thermal detectors and manual call points)
- 1 Monitored Flooding/Extinguishing Zone for swift activation of suppression systems
- 2 Monitored Outputs: 250mA each for fire and extinction sirens
- 4 x 2A, 30Vdc non-monitored relay outputs for Fire, Fault, and 2x Programmable actions
- 2 Auxiliary Supplies: 2 x 450mA 28Vdc output (1 Switched) for additional power options
- 2 non-monitored configurable Inputs to trigger pre-programmed actions
- 5 inputs for extinguishing monitoring (Activate, Abort/Hold, Flow, Valve monitor, Low Pressure monitor) as per EN 12094-1 standards.
- Extinguishant delay - countdown duration before extinguishant release
- Flooding time - Sets the duration for the extinguishant release



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GSS GROUP

- Key switch for manual or automatic mode selection
- Event log with storage for up to 10,000 events for thorough analysis
- CPR certification according to EN54-2, EN54-4, and EN12094-1 standards **(PENDING)**

MAINS SUPPLY VOLTAGE	90~264 VAC 50/60 Hz – DC input operation possible by connecting AC/N(+), AC/L(-)
MAIN FUSE	4A - Surge protected (slow blow) 20mm HRC
INTERNAL POWER SUPPLY	28.5V DC @ 2.4A 65W
MAX OUTPUT CURRENT	2.4A @ 230V AC
INTERNAL BATTERY CAPACITY - MAXIMUM	2x 12V DC 12Ah - sealed lead acid batteries
ZONE QUIESCENT CURRENT (WITHOUT DEVICES)	50 mA
PRIMARY FIRE ZONE DETECTION	8x Monitored Fire Zones detection with programmable coincidence zone capability
MAX CABLE LENGTH PER CIRCUIT	500m
MAX COMBINE DETECTORS & CALL POINTS PER CIRCUIT	32 Devices
NUMBER OF SOUNDER CIRCUITS	4x Monitored outputs – expandable to 8 with external module
SOUNDERS OUTPUT RATING	21V DC to 30V DC 250mA per circuit
NON-MONITORED INPUTS	2x Non monitored ports (Programmable inputs - Reset; Evac/Silence; Selected I/O)
AUXILIARY POWER OUTPUTS	2 x 24V DC 450mA max (1x Switched)
KEYSWITCHES	Manual & Automatic
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 Channels
COMMUNICATION USB PORT	USB Type B
EVENT LOG	10000 events
OPERATING TEMPERATURE	-5°C to +40°C
HUMIDITY	Max. 85% RH
PROTECTION RATING	IP30
DIMENSIONS	Deep box: 273 (L) x 404 (H) x 142 (W) mm
WEIGHT	2Kg without batteries
IP RATING	IP30 (Indoor use only)
COLOUR	White (RAL 9003)

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