

SecuriFire 3000 is a modular network-compatible fire alarm control panel and is suitable for connecting up to 16 SecuriLine eXtended addressable loops with up to 250 participants. The control panel is equipped with all the necessary interfaces for connection to the fire services, and with relay outputs and a connection for the external device bus. The multilingual MIC11 operating panel is either integrated directly in the door of the control panel or mounted at a distance.



SecuriFire FCP 3000

Fire Alarm Control Panel

Operation

The SecuriFire fire alarm system is a modular, decentralised fire alarm system consisting of individual components and can be adapted to individual system requirements. The SecuriFire 3000 fire alarm control panel controls the system components and evaluates the detector data, either centralised or decentralised in the control panels networked in the SecuriLan. The detectors, the wide range of different input/output modules and the special detectors communicate directly with the control panel via the SecuriLine eXtended. Even already installed Securitron detectors can be integrated into a SecuriFire system problem-free. Thanks to the system design, SecuriFire 3000 is also tested and approved as a control panel for multi-zone extinguishing systems (EN 12094-1 compliant).

Design

In its basic configuration each SecuriFire 3000 fire alarm control panel comprises a map case with cable entry cut-outs in its rear panel, and a unit rack. The unit rack is capable of accommodating up to 8 periphery plug-in boards (networking, SecuriLine eXtended, upgrading) and 3 relay plug-in boards (230V, 24V). The grey map case is made entirely of metal, providing the system with optimum EMC protection. The SecuriFire FCP 3000 fire alarm control panel is network-capable and can also be connected to higher-level systems (e.g. management systems). The virtual MIC can be connected with the integrated Ethernet interface.

Power supply

The internal 7A power supply unit delivers the output voltages of 3.3V, 5V and 27V required in every SecuriFire FCP 3000 control panel.

On the underside of the power supply unit is a 2-pin terminal for connecting the battery and a 10-pin plug-in screw terminal to which external consumers can be connected via five separately fused outputs. The B5-PSU power supply unit is equipped with battery monitoring, which is controlled and evaluated by the control panel's main control unit.

The emergency power batteries must be able to maintain the proper functioning of the fire alarm system for a certain length of time in the event of a mains failure, and remain fully charged for their entire service life. Due to these high product requirements, the charging and discharging characteristics of the batteries are subject to special requirements, specifications and tests. Also, the charge curves of the batteries must exactly match the power supply unit in use. The installation location for the batteries is on the housing base of each SecuriFire FCP 3000 control panel; two batteries connected in series are used in each case.

SecuriLine eXtended

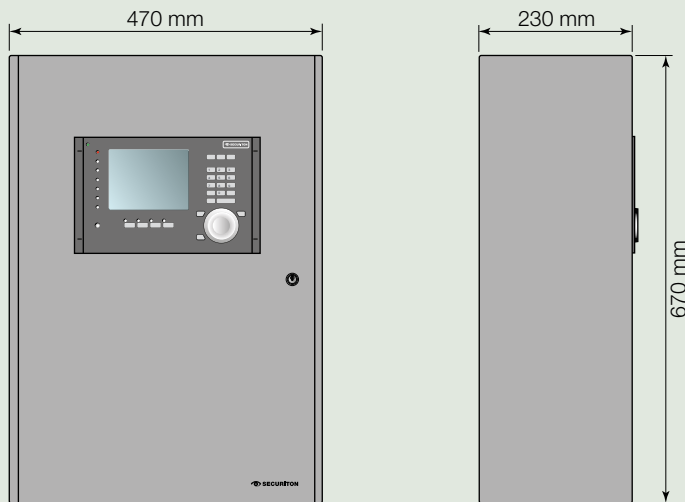
The detectors and modules of the fire alarm system are connected to the SecuriLine eXtended installed in a ring-shaped layout. The SecuriLine eXtended is a 2-wire field bus that guarantees the highest possible transmission reliability. Thanks to the short-circuit isolator integrated in each SecuriStar detector and in each addressable loop module, the SecuriLine eXtended remains fully functional even in the event of a fault. If a detector fails or in the event of a short-circuit or wire breakage on the line, the detector is isolated and all other detectors and connected input and output modules remain fully functional, without restriction, since the fault is isolated. The fault is localised and information about its exact position is shown in plain text on the display and output on the printer. This is why cable routing beyond fire sections can be optimised. A separate calculation program is included for computing the maximum possible addressable loop length based on the connected elements and the wire cross-section used.

SecuriLan

For applications that require several fire alarm control panels, up to 16 control panels can be networked in the SecuriLan via SpiderNet. Various interfaces (RS 485, fibre optic, TCP/IP) are available for the connections. The entirely freely selectable cabling topology allows the network

- Modular fully redundant fire alarm control panel with up to 16 loops
- Intuitive operation thanks to integrated or remote SecuriFire MIC
- Easy to use planning and commissioning tools
- Networks up to 16 control panels in the SecuriLan
- Various basic configurations
- More than 20 languages available

to be ideally adapted to the structural conditions on site. Creating multiple connections between the individual control panels ensures that each control panel remains connected with the network even in the event of connection problems.



Specifications subject to change without notice. Delivery subject to availability.

Technical data SCP-30XX

230 VAC +15%/-20%	Mains voltage
47-63 Hz	Frequency
350W	Power consumption max.
7 A	Output current
12V/45 Ah	Batteries (largest): 2 pieces in serie
IP 30	Protection class
0°/+50°C	Ambient temperature
26.3 VDC (+50°C) – 28.3 VDC (0°C)	Output voltage
97 mA	Quiescent current (w/o oper. panel, w/o printer)
5-95%,	Rel. air humidity: without condensation
670 × 470 × 230 mm/24 kg	Dimensions (H × W × D)/Weight of basic version (without batteries)

Technical data SecuriLine eXtended

250 max./Automatic	Number of addresses/Address allocation
3500 m	Ring circuit length
531	Backwards compatibility to series
> 300 mA	Short-circuit detection
24 VDC	Rated operating voltage
-16	SecuriLine eXtended
< 100 sec.	Starting/repairing time

Technical data SecuriLan

RS 485, TCP/IP	Bus technology
2500 kbit/s	Data transfer
32 max.	Number of participants on the SecuriLan
16 max./31 max.	Number of centrals/Number of external operating panels
24 VDC	Rated operating voltage
Cat 5 UTP RS 485	Cable (without power supply)
1.2 km max.	Length, between 2 participants
62.5/125 µm, 50/125 µm	Cable (without power supply), Multimode/MTRJ
9/125 µm	Cable (without power supply), Singlemode/LC 2×5
2 km max./10 km max.	Length, Multimode/Length, Singlemode

Product summary

B5-SCP3010	SecuriFire 3000 basic version
B5-SCP3020	SecuriFire 3000 basic version, with built-in operating panel MIC 11
B5-SCP3030	SecuriFire 3000 basic version, with built-in operating panel MIC 11 and printer
B5-SCP3040	SecuriFire 3000 basic version, with built-in operating panel MIC 11, printer and cut out for EPI devices
B5-SCP3050	SecuriFire 3000 basic version, with built-in operating panel MIC11 main indication and control map, protocol printer and cut-out for MMI device