Save lives – protect property.

Fire alarm systems for the future.

FIRE ALARM

SCHRACK SECONET

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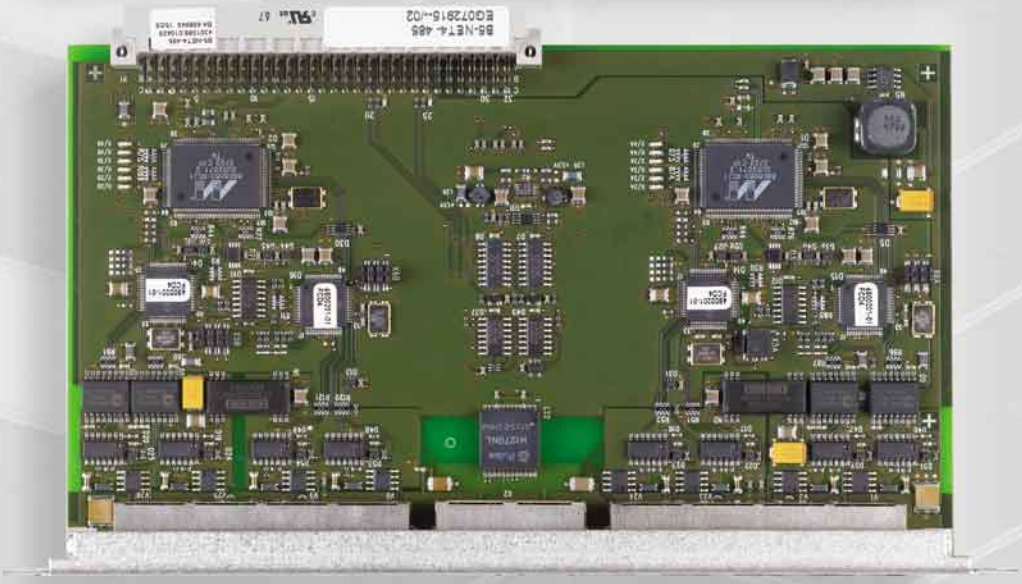
The highest level of fire safety.



Developed for mankind.
Great value is placed on safety. At Schrack Seconet, we have made it our duty to develop systems and solutions for people to increase their safety, thereby making the world a safer place. Our products represent the highest level of technology, are easy to operate and help build confidence.
The development of reliable fire alarm systems has a tradition in our company. Considerable investment in research and development, as well as representation in international bodies and co-operation with technical universities, fire prevention bodies, fire brigade associations and testing institutes guarantee that our products are not only able to boast cutting edge technology, but that they also assume a pioneering role in working to ensure the security of people and valuables.

100% redundancy as a matter of principle.
A fire alarm control panel's job is to detect a fire at the earliest possible point in time. However, this is not possible, when a single fault is sufficient to prevent it from functioning properly. For this reason, our modular fire alarm control panels are equipped with a 100% redundancy system, as only then can their ability to work properly be guaranteed. Two independent systems are housed in a single fire alarm control panel. If a fault occurs in the active half of the system, then the system automatically switches over to using the functional part of the system. All the functions of the entire fire alarm system remain fully and completely available – even in the event of a fault.

Made in Europe.
Schrack Seconet places great importance on high quality products.
Our technologically advanced fire alarm systems are therefore developed and manufactured in Austria and Germany, and are used in many places around the world. Our staff of over 400 works for our customers around the globe. Our subsidiaries in Sweden, Poland and Hungary and representative offices in the Czech Republic, Slovakia, Romania, Russia, India and Turkey, as well as many local representatives and distribution partners contribute to form a close-meshed customer care network for our many foreign customers.
Schrack Seconet has a branch office in every federal province in Austria. Our centralised support department is available for customer service technicians, partners and installers, and our telephone hotline is available around the clock for resolving all technical questions. In our dedicated training centre in Vienna and in various international training locations, our customers and partners are trained how to handle the systems.

Integral IP MX modular control panels.

Fire alarm control panel MXF.
The modular, decentralised Integral IP MX system consists of individual components and is configured and programmed in accordance to the customer's individual requirements. To ensure system integrity, all components and electronic elements are fitted fully-redundantly.

Each control panel forms an autarchic unit with its own power supply and battery backup supply, to which external operating panels, fire brigade control panels, printers etc. can also be connected as well as detector zones and controllers.

For applications that require several fire alarm control panels, it is possible to network up to 16 control units using the Integral LAN Ethernet mesh network, with different interfaces available for the connections (RS485, optic fibre, DSL). The fully freely selectable cabling topology allows the mesh network to be adapted optimally to the physical constraints of the building, while multiple connections between the individual control units also ensure, in the event of connection faults, that every control unit always continues to have a connection to the network.

Integral IP MX control panels can also be directly connected into the IT infrastructure of a building, with Internet and Intranet access to them being possible at no extra expense. Various parallel indicator tableaus or superordinated centralized indicating devices can, as long as they are not also used for notifying the emergency services, use the existing communications channels of the PC network.

Detectors, alarm transmission devices, inputs and outputs, as well as special fire alarm systems are connected to the control panel using the Integral X-LINE (loop length up to 3,500 m, with up to 250 devices per loop).

The Integral IP MX is available in various different types of cabinet – with or without a log printer, as a black box or with an additional built-in LED indicator panel.

Electrical automatic control and delay device MXE.
Due to the special redundancy concept and the particular high level of security, which is afforded for the wide range of uses, the Integral IP MX system can also be used as an Integral IP MXE extinguishing system control panel or as an Integral IP MXF/MXE combined fire alarm and extinguishing system control panel. For this purpose there are special versions of the cabinet and external operating panels, which contain an additional LED parallel indicator tableau. As a result of this enhancement, the Integral IP MXE conforms to the terms of the standards and directives EN 12094-1 and VdS 2496, and is also suitable and approved for controlling more than one extinguishing zone and for monitoring the following fire extinguishing systems:

- CO_2 high & low pressure extinguishing systems where life is or is not endangered
- Inert gas and argon extinguishing systems where life is or is not endangered
- Water spray and mist water deluge systems
- Pre-action sprinkler systems
- Sprinkler systems
- Chemical extinguishing systems

Dimensions (all MX types): 600 x 445 x 225 mm (H x W x D)
Case colour: red RAL 3000

Integral IP CX compact control panels.

Fire alarm control panel CXF.
The Integral IP CXF is a cost-optimized fire alarm control panel for small systems, with a total of a maximum of 500 elements able to be connected to two loop circuits in its basic version. Moreover, it contains an additional interface, to which either a LAN networking module, two further loop circuits, a universal interface or an input/output module can be connected.

Each control panel forms an autarchic unit with its own power supply and battery backup supply, to which external operating panels, fire brigade control panels, printers etc. can also be connected as well as detector zones and controllers. The Integral IP CXF can be integrated into an Ethernet mesh network if required, and is fitted with software redundancy to ensure the security of the system.

The Integral IP CXF is available with several different types of case – with or without a log printer or as a black box.

Fire alarm control panel CXA.
The Integral IP CXA fire alarm control panel is a cost-optimized standalone fire alarm control panel, suitable for connecting a single loop circuit with up to 250 devices. The control panel contains all the necessary interfaces for connection to the fire brigade, as well as relay outputs and connection for the external device bus.

Fire alarm control panel CXB.
The Integral IP CXB fire alarm control panel is a cost-optimized standalone fire alarm control panel, suitable for connecting a single loop circuit with up to 250 devices. The control panel contains a connection for the external device bus, while the connection of all additional peripheral devices as well as the connection to the fire brigade is carried out using the loop modules.

Electrical automatic control and delay device CXE.
The Integral IP CX system can also be deployed as an Integral IP CXE extinguishing system control panel or as a combined Integral IP CXF/CXE fire detector/extinguishing system control panel. A different version of the cabinet is available for this purpose, which contains an additional LED parallel indicator tableau for a single extinguishing zone and which also contains additional freely programmable inputs and outputs. In this version, the Integral IP CXE conforms to the terms of the standards and directives EN 12094-1 and VdS 2496, and is also suitable and approved for controlling a single extinguishing zone and for monitoring the following fire extinguishing systems:

- CO_2 high & low pressure extinguishing systems where life is or is not endangered
- Inert gas and argon extinguishing systems where life is or is not endangered
- Water spray and mist water deluge systems
- Pre-action sprinkler systems
- Sprinkler systems
- Chemical extinguishing systems

Dimensions (all CX types): 400 x 445 x 140 mm (H x W x D)
Case colour: red RAL 3000

Displays, Operation and Overview.

Integral MAP external operating panels.
Available with or without log printer for connection to all Integral IP control panels. Up to 8 external operating panels or up to 15 external devices can be connected via a separate data bus, with a maximum distance of up to 1,200 m to the control panel. User interfaces and display texts are available in 20 languages.
Dimensions (H x W x D): 230 x 445 x 35 mm or 360 x 445 x 45 mm (with printer).

- Display (6 lines, 40 characters per line)
- Conforms to all options of EN 54-2:2006
- Can be deployed as a main operating panel in a network
- Up to 4 languages can be switched between in normal operation
- Connection for external data bus for connecting additional indicating and operating devices
- Freely-programmable buttons and LEDs
- Individual user management with password and user level

High-End operating panel.
The High-End Operating Panel with a VGA colour display and function keys allows the easy operation of a fire alarm system and offers a structured overview of complex SecoNET fire alarm networks. The user interface and display texts are available in 20 languages.
Dimensions (H x W x D): 230 x 445 x 35 mm or 360 x 445 x 45 mm (with printer).

Fire brigade control panels & indicator panels.
In addition to the Integral IP operating panels, there are also various versions and varieties of fire brigade control panel available (e.g. pursuant to ÖNORM F 3031, DIN 14662, SN054002, etc.) as well as LED indicator panel. Detailed information is available upon request.

Integral VirtualMAP.
For accessing data in the fire alarm system from one or more PC workstations. The operating panel of the fire alarm control panel is represented 1:1 on the monitor, and it is possible to access all the information in the fire alarm system using the keyboard and the mouse. A multi-layer security concept ensures that non-authorised system access is blocked. The software only works when used in conjunction with the dongle supplied.

- 1:1 depiction of the fire alarm control panel's operating panel on a PC
- For Schrack Seconet Integral IP MX and CXF fire alarm control panels
- Clear and easy real-time operation
- Simple connection to the fire alarm control panel
- Language can be changed during use
- Comprehensive Security Concept

SecoLOG fire alarm management system.
Multi-location graphical control system for displaying the state and operating fire alarm systems simply and clearly from a central location. All messages and system states of the fire alarm control panels that are connected to the system are collected and displayed clearly at one or more PC workstations. Additionally, all connected systems and their cabling are constantly monitored to ensure that they are functioning properly. The operating system is compliant with the highest technical requirements and has been tested and approved in accordance with Austrian standard ÖNORM F 3003.

- Simple standardised operation of fire alarm systems and fire alarm devices in message and command mode
- Maximum reliability
- Single and multiple location operating modes
- Clear 2 monitor user interface with automatic switchover in the event of a fault
- Hierarchical password system
- Continuous logging – with note and reports functions

Fire Alarms.

Multiple sensor detector MTD 533X.

Combined scattered light smoke detector and temperature detector for early detection of smouldering or open fires with or without smoke formation. The detector can be programmed and used, depending on the type of system and depending on the area in which it is to be deployed, as a smoke detector, as a temperature detector or as a combined detector. For use in areas where there are difficult prevailing conditions, there is also a version available that has greater protection against increased air humidity.

- Fire alarm triggered by smoke, heat or smoke and heat
- Smoke detection using CUBUS levelling® for adapting automatically to the environmental conditions without complicated setting of parameters
- Sensitivity towards smoke and heat class can be set in accordance with EN 54
- Temperature-based smoke evaluation
- Pre-alarm evaluation when 30% and 75% of the alarm threshold is reached
- 2 level contamination detection
- Integrated short circuit isolator
- Adjustment of alarm thresholds to compensate for environmental influences
- Alarm filter for reducing the number of deceptive alarms
- Alarm output for external indication of alarms
- Operating time / contamination level values can be read out

Detector base USB 501.

For connecting the MTD 533X to the Integral X-LINE with a 6 pole terminal block. The detector is fitted using a bayonet fitting, while an additional 4 pin terminal block can be fitted in the designated snap-fit holder to form additional isolation points. The USB 501 is available in different versions for standard surface mounting, installation in cavity ceilings, and for use in damp rooms.

Ventilation duct detector LKM 531.

For use in places where there is a high airspeed and strong smoke dispersal e.g. air conditioning and ventilation ducts. The LKM 531 comprises of a plastic case with a built-in smoke detector and is equipped for use in ventilation ducts between 15 cm and 1m in size and in circular ducts with a diameter of 20 cm to 1 m. It can be deployed in areas where the air speed is between 1 to 20 m/s. The case has a clear cover, so that the smoke detector's alarm LED can be seen externally.

Manual call point MCP 535X.

Type B manual call point pursuant to EN 54-11 for manual triggering of a fire alarm, suitable for connection to the Integral X-LINE. The alarm is triggered by smashing the glass panel and pressing the button. The detector's protection class can be increased to IP 54 using a sealing kit, with the labelling for blue and yellow versions being done using stickers. The MCP 535X is also available as a manual triggering device for manual triggering an extinguishing operation using gas-based extinguishing agents and as a stop button pursuant to EN 12094-3.

Manual call point MCP 545X.

Type A manual call point pursuant to EN 54-11 for manual triggering of a fire alarm, suitable for connection to the Integral X-LINE. The alarm is triggered by pushing in the glass panel or by pressing the plastic panel. The alarm remains triggered until a new glass panel is fitted or the plastic panel is reset. The MCP 545X is available in different versions (IP protection class, colour).

Integral X-LINE devices.

BX-SOL loop siren for acoustic signalling of a fire alarm in interior spaces. The type of tone is set from the fire alarm control panel, with the volume being set using DIP switches.

BX-FOL flashing light for optical signalling of a fire alarm in interior spaces. The flash rate and the light intensity are set using DIP switches.

BX-SBL501 based-mounted siren for acoustic signalling of a fire alarm in an interior area (type A pursuant to EN 54-3) is fitted as a unit with a USB 501 detector base. The type of tone is set from the control panel, with the volume being set using DIP switches.

BX-SBL502 platform siren for acoustic signalling of a fire alarm in interior spaces. (Type A pursuant to EN 54-3). The type of tone is set from the fire alarm control panel, with the volume being set using DIP switches.

BX-API base-mounted siren for fitting in USB 501 detector base for local acoustic warnings of a fire. The BX-API snaps directly into the detector base and connects directly to its connector clips. If a detector is activated, as well as the alarm message being sent, an acoustic alarm signal is emitted.

BX-OI3 input/output module with relay output with a programmable fail-safe position, two inputs for querying potential-free contacts and an optocoupler input for monitoring external voltages. The module is primarily used for connecting special detectors to the Integral X-LINE.

BX-IOM input/output module with short circuit resistant monitored output and galvanically isolated input for controlling monitored devices, which are supplied with power by an external power supply (e.g. sirens etc.).

BX-IM4 input module with 4 inputs for monitored and non-monitored querying of potential-free contacts, suitable for handling switching times of more than 330 ms.

BX-REL4 relay module contains 4 bistable relays each with a potential-free double-throw contact with a fail-safe position.

BX-AIM input module with monitored input and parallel indicator output is used to connect threshold detectors to the Integral X-LINE or as a branch unit for monitoring hazardous areas.

BX-ESL end position switch for deployment in sprinkler monitoring and for blocking systems. The module contains an optical light barrier which measures the movement of an activation plunger.

Special fire alarm systems.

AirSCREEN ASD 535 smoke aspirating system.
The highly sensitive latest generation active aspirating smoke detector, in addition to pre-alarm signalling and contamination detection, can also set its sensitivity according to the application it is intended for. Using an ABS aspirating pipe and the corresponding accessories the devices can also be used in areas where there are low temperatures (deep freeze areas). The AirSCREEN ASD 535 is able to detect even the smallest glowing and smouldering fires and can be deployed more or less anywhere. The system consists of one or two independent aspirating lines incl. sampling points and a highly sensitive smoke sensor. Using an airflow monitoring process the aspirating line is permanently monitored for pipe breaks and contamination of the aspirating apertures. A high performance fan sucks in the air from the room or facility to be monitored through the aspirating line into the evaluation unit. The air is constantly evaluated by the smoke sensors here.
The indicator and operating panel of the evaluation unit display the smoke concentration of the aspirated air, as well as other alarm, fault and status messages. An increase in smoke concentration is recognised very early. Three pre-alarm signals and a main alarm signal can be programmed and signalled using potential-free relays or directly over the loop circuit.

The highly-sensitive SSD 535 smoke sensor, which has been developed especially for the AirSCREEN ASD 535, is the result of substantial research projects. A high-power LED combines with an LVSC measuring chamber (Large Volume Smoke Chamber) which results in the highest possible range of sensitivity, the lowest possible aerodynamic resistance and the greatest possible resistance against contamination. There are three versions/sensitivity ranges of the SSD 535 available:

- SSD 535-1 alarm sensitivity range 0.5 %/m to 10 %/m
  for standard use and room monitoring
- SSD 535-2 alarm sensitivity range 0.1 %/m to 10 %/m
  for special applications in room monitoring
- SSD 535-3 alarm sensitivity range 0.02 %/m to 10 %/m
  for room monitoring e.g. EDS systems, switch cabinets (clean surroundings)

Relay, interface and memory card modules can be optionally fitted in up to four built-in slots.

The SLM 35 loop circuit module is used to connect the ASD 535 to the fire alarm system over the Integral X-LINE. Controllers and simple changes to the ASD device configuration can therefore be directly undertaken from the fire alarm control panel.

The RIM 35 relay interface module ensures the availability of all three presignal levels and the states “Smoke sensor contaminated” and “blockage” as relay contacts.
The relays can be programmed using the ASD Config configuration software.

The MCM 35 memory card module including a 1 GB SD memory card is used to save operating data.

Performance Characteristics:

- 1 or 2 aspirating lines with separate airflow monitoring
- EN 54-20 classes A, B and C
- VdS-tested ASD PipeFlow calculation software allows efficient and asymmetric pipe laying
- Sensitivity can be set from 0.002 to 10 %/m
- Not sensitive to contamination thanks to particle suppression (registered patent)
- Auto-learning function
- High aspirating performance (> 400 Pa vacuum)
- Low noise production, conforms to ISO 11690-1
- Can be fully integrated into the Integral IP fire detection system
- Perfect smoke detection thanks to HD sensors (High Dynamic Technology)

Special fire alarm systems.

ADW 511 linear heat detector with temperature change and maximum temperature processing. A testing motor with pressure pump produces a precisely defined desired increased pressure in a sensor tube at regular intervals. The alarm is triggered when a change in volume is detected due to a change in temperature. The detector's response characteristics can be tweaked precisely to suit its specific requirements for its use by intelligently linking the measurement value specifically to its use. If the pressure sensor's measurement value does not correspond to the value it should correspond to, e.g. in the event of a leak occurring or a tube having been squashed, then a fault is displayed. Its robust construction makes it particular suitable for use in detecting fires in hazardous areas (in tunnel systems, hazardous areas, industrial applications etc.).

SPC-E linear smoke detector consisting of transmitter and receiver units and which works in the infrared range of the spectrum. The detector is particularly reliable where there is a constantly changing ambient temperature or air humidity, is easy to set up and excels in particular due to its low power consumption. The intensity of the infrared rays is corrected automatically, and the sensitivity can be set to one of three levels.

ARDEA linear smoke detector, consisting of transmitter and receiver units, for monitoring areas of up to 3,000 m^2. Detection occurs based on an absorption measurement whilst taking dynamic parameters (smoke modulation) into account, with the detector also set to the flame frequency of an open fire. Special versions of the ARDEA are available for hazardous areas and with IP 65 protection class.

ECO linear smoke detector, consisting of a combined transmitter/receiver unit and a reflector. The infrared beam that is emitted by the transmitter is reflected by the reflector mounted opposite the detector and evaluated. The detector is particularly suited to being used in historical buildings, museums, hotels etc. on account of the low amount of wiring it required.

SLR-E-IS optical smoke detector is designed specially for use in hazardous areas and is connected to the Integral X-LINE using a BX-AIM branch module and a Zener barrier. The detector contains 2 LEDs positioned opposite one another for indicating an alarm and is approved for use in class 1 and 2 hazardous areas.

DCD-1E-IS temperature detector is a conventional class 1 maximum and change in temperature detector, with an additional fixed alarm threshold at 60°C and is designed especially for use in hazardous areas. The detector is connected to the Integral X-LINE using a BX-AIM branch module and a Zener barrier and contains 2 LEDs positioned opposite one another for indicating an alarm. The detector is approved for use in class 1 and 2 hazardous areas.

Flame detector for hazardous areas with approved case, available as UV, infrared or combined UV/IR detectors. The detectors are suitable for outdoor use, and are particular suitable for use where flames are concealed by smoke thanks to the unit's own particular optical self-monitoring process. All versions are not sensitive to sunlight, with larger flames being detectable from greater distances. All detectors are approved in accordance with ATEX 100a and VdS.

Fire safety worldwide.

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