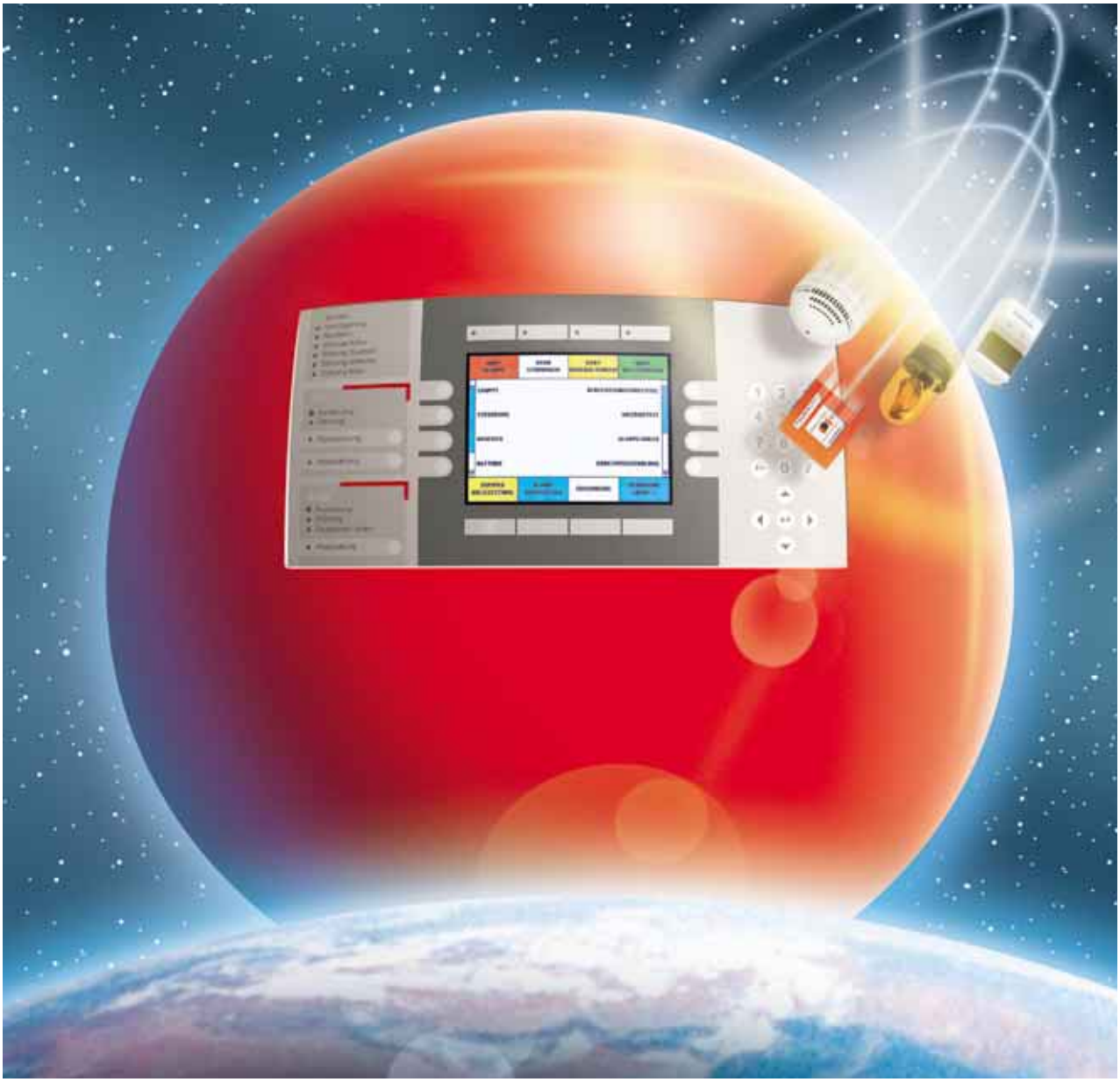

Fire alarm systems.

Technology for the future.

Fire Alarm

SCHRACK SECONET

Total security – used around the globe.

Competent Security Technology.
Schrack Seconet is an Austrian high tech company and is one of the leading market players in the security technology sector. In addition to our high quality range of products, we also offer a wide range of services such drawing up security concepts and system-based solutions.
The development of reliable fire alarm systems has a tradition. 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 guarantee the security of people and valuables.

Full Redundancy.
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, the BMZ Integral is equipped with a 100% redundancy system, as only then can its ability to work properly be guaranteed. 100% redundancy means that two independent systems are housed within 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 part of the system that is still functioning. Consequently, all the functions of the entire fire alarm system remain fully operational and fully available.

Three levels of security.
The decentralised construction of Schrack Seconet fire alarm control panels makes it possible to customise fire alarm systems to suit the individual wishes of the customer. It is possible to assemble small systems or large systems comprising of thousands of detectors without any problem. The subsystems are connected to one another by double circuit loops, with this so-called "Sub Control Unit Loop" also offering complete security, as the complete functional integrity of all system components and communications being guaranteed even in the event of a triple error occurring. Finally, the SecoNET networking concept allows sub control unit loops to be combined with one another to form networks, which makes it possible to extend the system almost limitlessly.

Fire alarm control panels.

The **BMZ Integral** is a modular fire alarm system, which can consist of between 1 and 16 sub control units depending on the size of the system. Up to 2048 modules using loop technology, or 64 detector zones using conventional technology, can be connected to each sub control unit. The BMZ Integral is available with several different types of case (with or without a log printer or as a black box). 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 and printers etc. can also be connected as well as detector zones and controllers. To ensure that system integrity is maintained, all components and modules are fitted in duplicate (fully redundantly), with the connections between the individual sub control units also being carried out via a double loop circuit. The BMZ Integral is suitable for connection to management control systems, can be built in redundantly into sub control unit loops and networks and also contains connections for internal modems and an external printers. The unit is programmed using a laptop and the user interface and display texts are available in 20 different languages. Dimensions (H x W x D): 600 x 445 x 225 mm.

The **BMZ Integral C** is a compact 2 loop fire alarm control panel for use in small to medium-sized systems and consists of 1 to 16 sub control units depending on the size of the system. Up to 256 devices can be connected to each sub control unit using loop technology. The BMZ Integral C is available with several different types of case (with or without a log printer or as a black box). 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 and printers etc. can also be connected as well as detector zones and controllers. The BMZ Integral C is suitable for connection to management control systems, can be built in redundantly into sub control unit loops and networks and also contains connections for internal modems and external printers. The unit is programmed using a laptop and the user interface and display texts are available in 20 different languages. Dimensions (H x W x D): 400 x 445 x 140 mm.

Alternatively, the **BMZ Integral C** can also be deployed as a standalone **4 Loop** fire alarm control panel, being suitable for connection to up to 512 devices using loop technology in this instance.

The **BMZ Integral C1** is a non-modular non-networkable small-scale control panel for connecting a single loop circuit with up to 128 devices. The BMZ Integral C1 is available either with or without a log printer. Furthermore, external operating panels and fire brigade control panels can also be attached. The unit is programmed using a laptop and the user interface and display texts are available in 20 different languages.
Dimensions (H x W x D): 400 x 445 x 140 mm.

The **MMI-CIP and MMI-CPP external operating panels** can be connected to the Integral, Integral C and Integral C1 fire alarm control panels. Up to 8 external operating panels can be connected to a sub control unit via its own data bus, with a maximum distance of up to 1,200 m to the sub control unit. 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).

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).

Control panels for extinguishing systems.

Automatic electrical control and delay devices (ECD) are used to control stationary fire extinguishing systems. As a result of its unique redundancy concept and the particular degree of security that it grants for the wide range of uses, the **BLZ/SLZ Integral** system is also suitable and approved in accordance with the requirements of the standards and directives EN12094-1 and VdS 2496 for controlling and monitoring fire extinguishing systems with more than one extinguishing zone. For this kind of usage, special types of cabinet, additional modules and an LED parallel indicator panel are available.

- 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 systems
- Pre-action sprinkler systems
- Sprinkler Systems
- Mist water spray systems
- Chemical extinguishing systems

The **BLZ/SLZ Integral C** can also be used, when using a special type of case, additional modules and an LED parallel indicator tableau, as a controller unit for single zone extinguishing systems.

Management control system.

The **SecoLOG fire alarm control system** is a multi-location graphical control system which is used to display the state and operate 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 collated 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.

Performance Characteristics:

- Simple standardised operation of fire alarm systems and fire alarm devices using messages and commands
- Maximum reliability
- Single and multiple location operating modes
- 2 monitor user interface gives a clear overview, with automatic changeover in the event of a fault and with a dynamic zoom function
- Hierarchical password system
- Continuous logging – with note and reports functions

Fire Alarms.

The **SSD 531 optical smoke detector** works using the Tyndall effect and is used for the early detection of open and smouldering fires where smoke forms. The detector's sensitivity can be adjusted using software in accordance with the limits set out in European Standard EN 54-7. The detector contains a drift compensation with contamination recognition and pre-alarm evaluation as standard, and also contains a short circuit isolator, can be individually disabled and is not sensitive to electromagnetic influences. VdS approved in accordance with EN54-7.

The **UTD 531 temperature detector** reacts both to rapid changes in temperature as well as to a fixed maximum temperature being reached. The sensitivity settings can be set using software in accordance with EN 54-5. Every detector can be disabled individually, is not sensitive to electromagnetic influences and contains an integrated short circuit isolator as standard. VdS approved in accordance with EN54-5.

The **Schrack STD 531 combined fire alarm** contains a smoke chamber as well as a temperature sensor, which can be controlled or switched over by the fire alarm control panel dependent on the time of day, or dependent on events. It is also possible to program a link between both parts of the sensor. The smoke sensor recognises fires where smoke forms, and open fires which break out quickly involving high temperatures are detected by the temperature sensor. The detector contains a short circuit isolator, can be individually disabled, and is not sensitive to electromagnetic influences.
VdS approval in accordance with EN 54-5 and EN54-7.

The **USB 501 detector base** is used to connect the SSD, UTD and STD 531 automatic detectors and is also available in various special versions for installation in cavity ceilings and concrete ceilings, as well as for use in damp rooms. The automatic locking mechanism incorporated into the terminal block makes it possible to check the loop circuit's installation easily without a detector being attached. A parallel indicator or a base-mounted siren can be attached to the USB 501 as required.

The **SLR-E-IS optical smoke detector** is designed specially for use in hazardous areas and is connected to the Integral loop circuit using a BA-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.

The **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 loop circuit using a BA-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.

The **MCP 535 manual call point** is used to manually trigger a fire alarm (type B in compliance with EN 54-11). The detector is fitted with an integrated short circuit isolator as standard and can be individually disabled. Any language can be quickly and simply selected by using interchangeable descriptor strips, with the detector available in various versions (various IP protection categories and colours).

The **MCP 545 manual call point** is used to manually trigger a fire alarm (type A in compliance with EN 54-11). The detector is fitted with an integrated short circuit isolator as standard and can be individually disabled. The alarm is triggered by smashing the glass panel, with the detector being available in different versions (IP protection class and colour).

The **WRIS manual call point** is used to manually trigger a fire alarm in hazardous areas (type A in compliance with EN 54-11) and is ATEX approved. The alarm is triggered by smashing the glass panel, with the detector being available in different versions (IP protection class and colour).

Modules.

The **BA-OI3 input/output module** contains a 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 contains a short circuit isolator and is primarily used for connecting special detectors to the loop circuit technology.

The **BA-AIM branch module** is used to connect conventional D/C detectors to the loop technology or as a branch unit for monitoring hazardous areas. It contains a monitored input, a parallel indicator output and a short circuit isolator.

The **BA-IOM input/output module** is used, for amongst other things, to control monitored devices, which are supplied with power by an external power supply (e.g. sirens etc.). It contains a short circuit-proof monitored output and a galvanically isolated input, as well as an integrated short circuit isolator, with the power supply also being internally monitored on the loop circuit for undervoltage.

The **BA-REL4 relay module** contains 4 relays each containing a potential-free double-throw contact with a fail-safe position and an integrated short circuit isolator, with the power supply also being internally monitored on the loop circuit for undervoltage.

The **BA-IM4 input module** contains 4 inputs for the monitored and non-monitored querying of potential-free contacts, as well as an integrated short circuit isolator. The inputs are suited to detecting switching states of more than 330 ms, with the operating mode being configurable and which can be set separately for every input.

Integral RemoteControl Panel.

The Integral RemoteControl Panel software pack is designed to allow access to the information for the connected BMZ Integral 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.

Performance Characteristics:

- 1:1 depiction of the BMZ Integral's operating panel on a PC
- Clear and easy real-time operation
- For Schrack Seconet BMZ Integral & Integral C fire alarm control panels
- Easy to connect to the fire alarm control panel
- Language can be changed during use
- Comprehensive Security Concept
- Hierarchical password system with individually assigned access privileges and passwords
- Callback function
- Continuous logging
- Compatible with modem and leased-line connections
- Can be networked
- Programmable server calls in the event of events occurring

Special detectors.

The **SPB-E linear smoke detector** consists of transmitter and receiver units and 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 install and set up and excels in particular due to its low power consumption and compact case. The intensity of the infrared rays is corrected automatically, and the sensitivity can be set to one of three levels.

The **ARDEA linear smoke detector** consists of transmitter and receiver units and is suitable for monitoring areas of up to 3000 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. The ARDEA is also available in special versions for use in hazardous areas and with IP 65 protection class.

The **Miniboomerang linear smoke detector** consists of a combined transmitter and receiver unit and a reflector with are fitted opposite one another. The infrared beam that is emitted by the transmitted is reflected 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.

Flame detector for hazardous areas in a case tested in a hazardous area, 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.

Schrack ASD 516 smoke aspirating system, comprising of a detection unit with a built-in ventilator, optical smoke detector and tubing replete with apertures. A constant supply of air is introduced into the detector contained in the detection unit, and if there are smoke particles contained in the air, then the fire alarm control panel is triggered once the alarm threshold is reached. It is particularly suitable for use in historical buildings, churches, museums, castles, prison cells, entrance foyers, rooms with suspended ceiling constructions, high rise stores, computer rooms etc.

The **VESDA highly-sensitive smoke aspirating system** is the choice of preference for protecting areas with valuable or particularly flammable goods, and is therefore particular suitable for use in IT and telecommunications facilities, clean rooms, control centres, inaccessible areas such as false ceilings and floors, cable ducts etc. The system constantly takes air samples using a network of piping and sends these samples to the laser detector to the laser detector. The sensitivity of the system can be set to 0,005 % – 20 % obscuration/m. VESDA smoke aspirating systems are available in various different versions.

Schrack ADW 511 line temperature detector. 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.).

We are your partner for: • Fire alarm systems • Hospital communications • Communications in care homes and homes for the elderly • Security systems • Access control • Intrusion detection and video surveillance technology. As well as our range of technical solutions, we also offer a wide range of service, e.g. planning, installation and fitting, commissioning and system maintenance. Our range of services is rounded off by offering training for planners, constructors, technicians and users.

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Printed on environmentally paper

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