



Schrack BMZ Integral.

The new dimension in fire prevention.

FIRE ALARM

www.schrack-seconet.com

SCHRACK
S E C O N E T

Schrack BMZ Integral. The highest of safety.



A small cause with massive consequences.

From television, radio or newspaper reports, everyone knows how easily it can happen. A forgotten candle, a flying spark during renovation work, a short circuit or a faulty electrical appliance – that is all it takes for offices, homes, or even cultural assets or woodland to become the victim of the flames. A tiny cause often has colossal ramifications. A destructive fire never starts

out as a blaze. Human error or technical failure often leads to enormous damage to property, or in the worse case scenario to the loss of human life.

The BMZ Integral – a strong partner!

It is precisely in such fiery situations that the BMZ Integral proves its strength. Thanks to its unique fully redundant construction, it is even able to withstand multiple



simultaneous system faults. Typical fire alarm systems, on the other hand, at best switch over to a simple emergency system in the event of a system fault or failure. The BMZ Integral, however, remains a strong partner for preventative fire safety even in such an event. All indications and functions – in particular those of lifesaving fire alarm control devices, such as smoke traps, fire doors, vent pipes, escalators, air condition systems and the like – remain fully available.



The BMZ Integral - reliability around the clock.

The BMZ Integral is the only fire alarm system on the market which possesses full redundancy. All components, electronic elements and the system bus are present in duplicate. If a fault occurs in the system, then the BMZ Integral recognises this immediately, and automatically switches over internally to the system which is ready for use. All alarm notifications, indicators, functions and controllers of smoke prevention dampers, fire prevention doors

or extraction ducts are always available in their entirety. You can rely upon Schrack Seconet's BMZ Integral around the clock!

Autonomous fault detection saves money.

The regular test routines ensure that the BMZ Integral is always fully functional. During the self-

testing process, without exception, the entire system and all its functions are checked. Possible sources of faults occurring are thereby recognised at an early stage, and are automatically localised by the fire alarm control panel.

This ensures that such faults can be swiftly rectified. Expensive deceptive alarms, which are triggered by technical faults, have finally been consigned to history thanks to the BMZ Integral. The intelligent system only raises the alarm when dangerous situations actually occur.



Schrack BMZ Integral. Modular construction and backward compatibility.



Flexibility for the customer.

Among the particular features of the BMZ Integral are its modular construction and its backward compatibility. Both of these features are the basis to satisfy tomorrow's wishes and technical developments.

The BMZ Integral's system is also able to simultaneously grow to meet increased demands on fire prevention in an economical way, and can be adapted to the user's individual requirements at any time. Additional components, such as optical smoke detectors, smoke aspirating systems or fire control systems can be added subsequently as required. And of course, existing Schrack Seconet detectors can also be quickly and simply integrated into the system.

Always at the cutting edge of technical development.

Technical progress is happening rapidly, and new developments are helping to optimise solutions. However, your BMZ Integral system does not become devalued by such progress. In contrast to other fire alarm systems, this fire alarm control panel is able to be upgraded to the state of the art technology – both quickly and without great expense, thanks to the system's backward



compatibility! The expensive and time consuming process of changing the entire system thereby becomes unnecessary.





Seamless cooperation with existing technical systems.

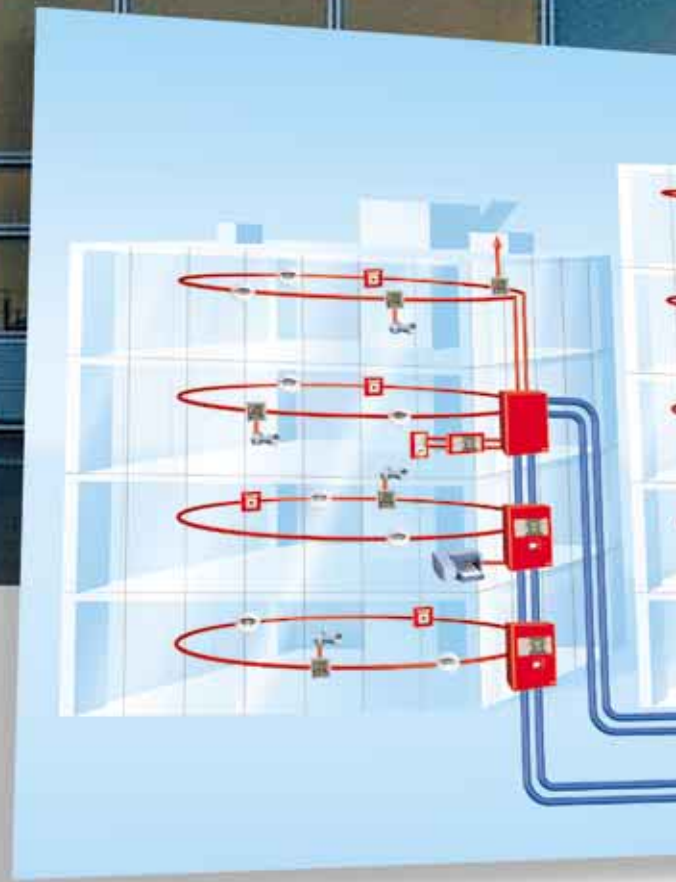
The BMZ Integral system can be networked with other systems, such as the SecoLOG fire alarm management system, the building management system or the telephone system. Important information can be immediately sent to monitors, printers or other locations as required.

Every event is logged.

To ensure that you are always able to have a clear overview about the BMZ Integral's operating mode, the integrated log printer saves all events which occur. Every incident is logged in fractions of a second with the date and time at which they occurred, and the log can be printed out as many times as required.



Schrack BMZ Integral. The security network grows to meet requirements.



A made to order fire alarm control panel.

Thanks to its decentralised construction, the BMZ Integral adapts optimally to your requirements and to local conditions. Starting with just a single fire alarm control panel, it is possible to create systems, either large or small, comprising of thousands of

fire alarm detectors, for use, for example, in hotels, airports, office blocks or production facilities.

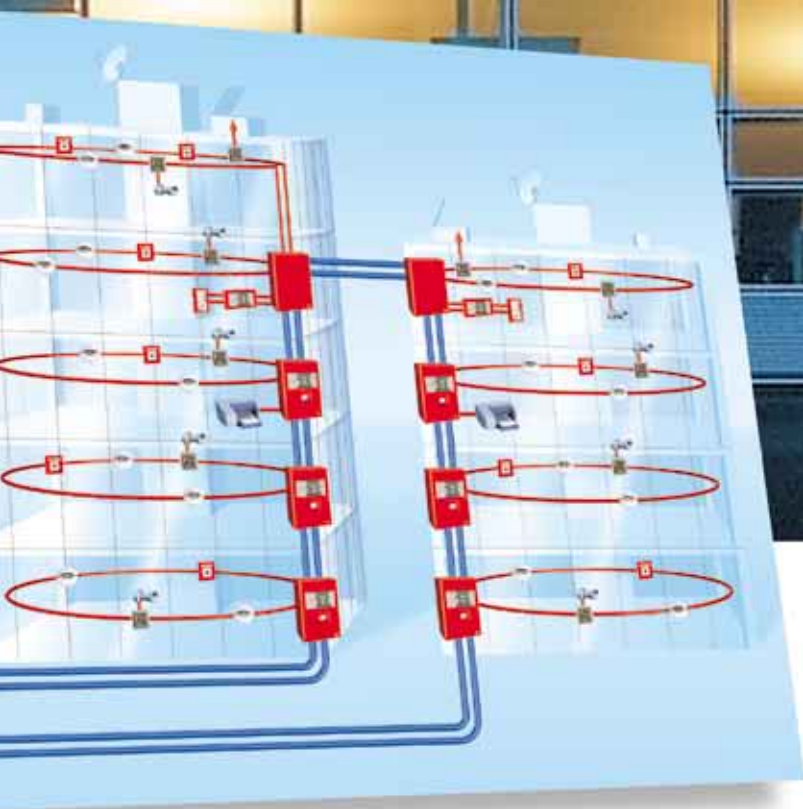
By using subcontrol unit loops and by creating high-grade networking concepts, an almost endless expansion – both in terms of systems and security – is possible.



Total protection even in the event of triple errors.

The individual decentralised subsystems are, in redundancy terms, connected with one another via a double loop circuit. The subcontrol unit loop, which can comprise of up to 16 control panels, guarantees that all components can function fully, even in the event of a triple error. A specially developed digital data protocol guarantees communication between individual subcontrol units. All modules, such as detectors, sirens or input/output modules are in permanent contact with the control unit.





Safe in every event.

Every module is also fitted with a short circuit isolator. This offers a decisive advantage. In the event of a short circuit or a wire break, the loop circuit is reformed using both sides thanks to this integrated isolator. The fault is indicated in the control panel straightaway, thereby allowing it to be tackled in a focused way. All other modules therefore continue to function fully, remaining in service at their normal high level. Furthermore, the entire system is tested in precise detail during the regular self-test routines. Reliable continuous monitoring is consequently guaranteed.

Safe disablement.

Loop technology also permits the disablement of individual detectors or controllers to allow various maintenance work tasks to be undertaken. Even in this operating state, the detector continues its monitoring processes, is able to detect every event and

is able to forward information to the BMZ Integral instantly. In the event of a fire, it automatically triggers security measures for elements which help to form fire zones. This technology increases the ease of use for the user whilst ensuring a constant security standard.

During renovation work, risks can be reduced to a minimum in this way. The operating panel always reminds the user which modules have been disabled.



Schrack BMZ Integral. Twofold protection. Reassuringly safe.



Double lasts longer.

Safety always needs to get safer – Schrack Seconet developed the BMZ Integral with its unique redundant construction true to this guiding principle.

As all components are present in duplicate, the BMZ Integral offers you a decisive advantage in terms of safety over other systems. All detectors and functions continue to work fully, even in the event of faults occurring in an individual electronic element in the control panel or in peripheral devices. The increased level of safety not only affects the fire alarm control panel as such, but is equally applicable to the multitude of functions of the controls for the individual fire zones, such as smoke and door control systems. It is therefore possible to ensure that after a fire breaks out, that certain areas of a building are no longer accessible, that the

lifts automatically travel to a certain floor and remained stopped there with open doors, and so that people in danger from developing smoke are not placed at further risk. These features also remain fully functional, even after an electronic element fault has occurred, thanks to Schrack Seconet's high-grade redundant system construction.

The highest level of safety.

The BMZ Integral's safety criteria are of the highest standard - both in national and international terms. Not only do they exceed the expectations of many experts, but also those of all standards, such as European standard EN 54. Our commitment to quality does not end with the requirements of national standards or directives. Above all, our commitment is to ensuring your safety – as even security technology must become safer! In accordance to this principle, Schrack Seconet works constantly to ensure that the highest





level of safety is available using the most up-to-date technology.

Error eliminated.

The BMZ Integral is an intelligent control panel! Its doubly-equipped structure presents several advantages. The BMZ Integral is able to decide precisely what situation has occurred. It only raises the alarm when there is a real emergency. Even if an electronic element has failed, the system retains 100% functionality. Traditional emergency systems are unable to do so – resulting in a range of unpleasant

consequences: the need for a lot of explanations, a great deal of time consumed, financial consequences and a tarnished image with the emergency services.

A talent in communication.

The BMZ Integral not only offers absolute safety, but thanks to the Integral Standard Protocol, it can be connected to more or less any system. Especially in large buildings, it is often necessary to connect the fire alarm system to a superordinated management system.



Schrack BMZ Integral. Clear speaking even in an emergency.



Gives an overview and easy to use.

Even in stressful situations, such as when an alarm occurs, the high-end operating panel is still able to prove its unique user-friendliness. Although the control panel is able to automatically react in many

processes, those responsible must also still be able to make decisions quickly and to react accordingly. The BMZ Integral's high-end operating panel helps to ensure that you can keep your cool, even in fiery situations. Its clear structure, clear key arrangement and the intuitive menu structure also make it possible to react rapidly and correctly, even in the event of an alarm occurring – without wasting valuable time.





Clear and rapid information.

The high-end operating panel, which is remotely connected to your BMZ Integral unit, is also fitted with a large and comprehensive colour display. It delivers all relevant information about operating states, faults or alarms – and all of this in practically any language in the world. The unit is operated via multi-functional key, known as soft keys. A single push of a key is enough for you to be able to read all the information relevant to any message on the colour display. The most important indications are also highlighted in colour.

Monitoring regardless of location.

Thanks to the Integral RemoteControl Panel, it is also possible for security staff from companies anywhere in the world to monitor the BMZ Integral's operating panel. The required information can be obtained via a modem link. The operating panel appears on the user's monitor identically to how he is used to seeing it on the BMZ Integral on site.

The advantages of the BMZ Integral at a glance.

- Redundant system structure
- Can be extended almost infinitely thanks to its modular construction and backward compatibility.
- Both centralised and decentralised constructions are possible
- High-end operating panel with large colour display



Schrack BMZ Integral.



BMZ Integral Cabinet: 600 x 445 x 225 mm (H x W x D)



External operating panel:
230 x 445 x 35 mm (H x W x D)

External indicator panel for 64 detector zones:
230 x 445 x 48 mm (H x W x D)



External operating panel with printer: 360 x 445 x 45 mm (H x W x D)

Permissible Ambient Temperature: 0-40° C
Colour: Red RAL 3000

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