

Satel®

**Intelligent
Security Solution**

about SATEL

Over 25 years of experience

SATEL has been present on the Polish market since 1990. Over the years, we have been named one of the largest security system manufacturers. We defend this title every single day, constantly caring of the highest quality of our products. We specialize in design, production and sales of a wide range of up-to-date devices used for construction of security alarm systems.

State of the art and top quality of SATEL's products

The innovation of solutions means not only modern technology. We know very well how important it is for the devices we offer to be user-friendly for you and your family. This is why we place special emphasis on legibility and ease of operation, as early as at the product design stage.

The plain text menu systems, a system of intuitive designations on keypads, or convenient applications for controlling the alarm system using a mobile phone – these are some of the solutions aimed at facilitating operation of our products. We do care about being in line with the current trends in product design. Therefore, we have developed our own design and production departments to create top quality components from which the enclosures of our products are made.

Combining modern design with concern for the highest quality helps us achieve success not only on the Polish market, but also on many markets worldwide. Since the company came into existence, its activities have been based on a system that served to ensure the highest quality of our products. In 2002 we obtained the certificate of conformity to ISO 9001:2000, thus proving the high quality standards used by our company. We exceed the ISO specified requirements – each product leaving our production line undergoes full-scope functionality testing and receives a guarantee of reliability.

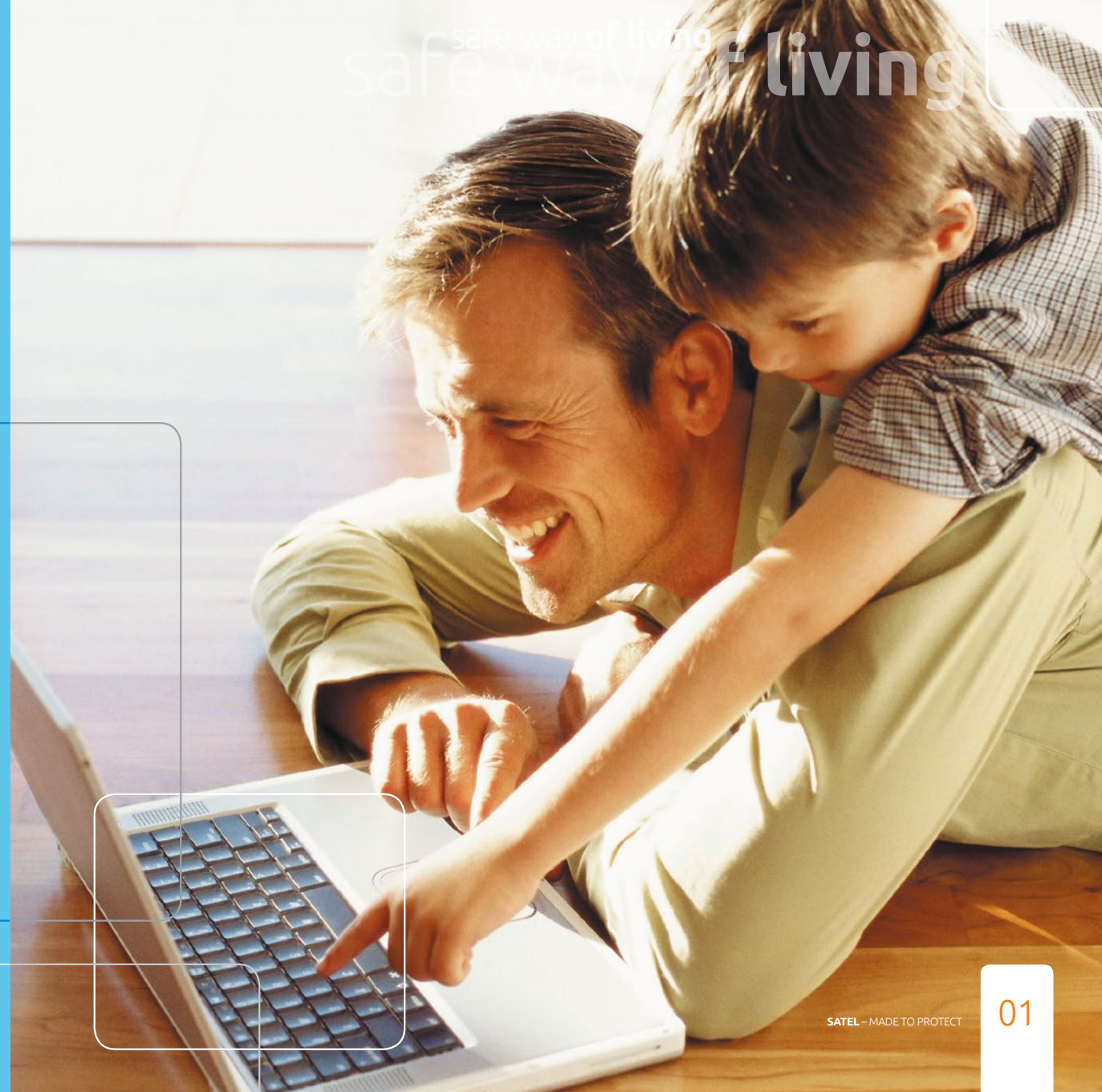
To make life easier

Our task is to maintain our position as the technological leader in the market of security devices. We offer functional state-of-the-art solutions for each area of property protection. More than 300 employees engaged in fulfillment of this task, as well as the dynamically developing production facilities, make it easier to achieve the set objectives.

This catalog has been prepared to present our customers the functionality of our security systems. Our offer, in addition to traditional alarms, also includes many other useful devices that will make your home safe and functional. With these devices you can free yourself from performing certain daily activities, even when you are away from home.

We hope you will enjoy this catalog and that it will help you specify in detail your requirements to be met by the security system to ensure peace, sense of safety and comfort for your nearest and dearest.

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Alarm control panels

Just like most technical devices and solutions that we invest in, alarm systems should be adjusted to fit our particular needs. To choose an optimum protection, first of all it is necessary to assess the size of the system. In order to do this we have to establish the number of the protected points which, in turn, translates into the quantity of components that the alarm control panel will have to manage. Almost just as important are the issues connected with the habits of everyday users of the protected facility. Knowing the users' habits and their daily schedules allows us to assess the needs in terms of system settings personalization and the scope of configuration.

The size of the facility does not always have to be the decisive criterion in choosing a particular panel. Requirements connected with system functionality may necessitate using a more advanced panel e.g. when we expect that the system will have the option of automation.



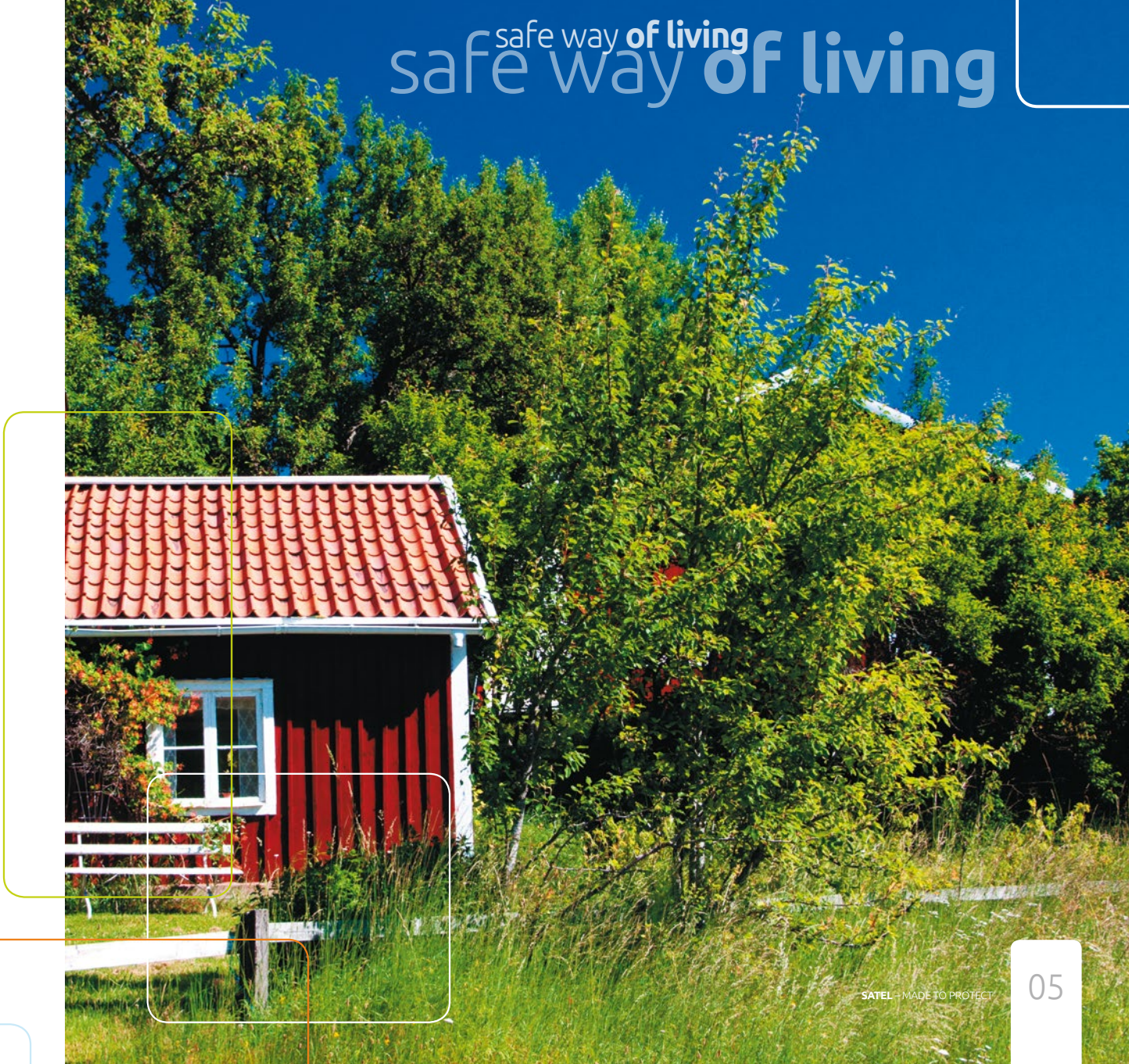
Securing the smallest facilities

MICRA wireless system has been designed primarily for protection of small facilities such as: holiday cottages, workshops or even premises where recreation or gardening equipment is stored. The fact that the module can be powered with 12 V means that it can also be used for securing yachts, transport cars or camping trailers.

MICRA alarm module offers all basic functions of an alarm control panel: receiving detector signals, activating signalling devices, monitoring and notifying. The device is equipped with a GSM/GPRS communicator which allows it to send SMS messages and monitoring to the particular security services provider. Additionally, MICRA system offers acoustic alarm verification i.e. a possibility to eavesdrop on the events taking place in the protected facility over a phone in order to prevent unnecessary interventions.

MICRA system can be used both with wired and wireless detectors and, after proper configuration, it ensures optimum and reliable protection for all small facilities.

Everyday maintenance of MICRA system could not be easier and it is carried out with keyfobs and a wireless keypad. However, the system can also be controlled with a cell phone which can be used to transmit commands to the particular system components via an SMS or through a dedicated mobile application: MICRA CONTROL. These solutions can be used not only for convenient standby activation and deactivation but also e.g. turning heating on in the garage or the watering installation in the garden.



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Securing small facilities

Merging simplicity and modern life-style for effective protection of small houses and apartments, but also small companies – this is how we could summarize the nature of PERFECTA panels. They allow for building classic cable systems, but also wireless systems with encrypted transmission and hybrid systems, which combine the properties of both types of installations. This is why PERFECTA system is suitable for both your cable and wireless devices which in turn allows for a very flexible development of any existing systems.

The panels provide you with the possibility to divide the monitored facility into two zones. In each of the zones users can define three standby modes to fit the manner of protection to their needs: night, day and full.

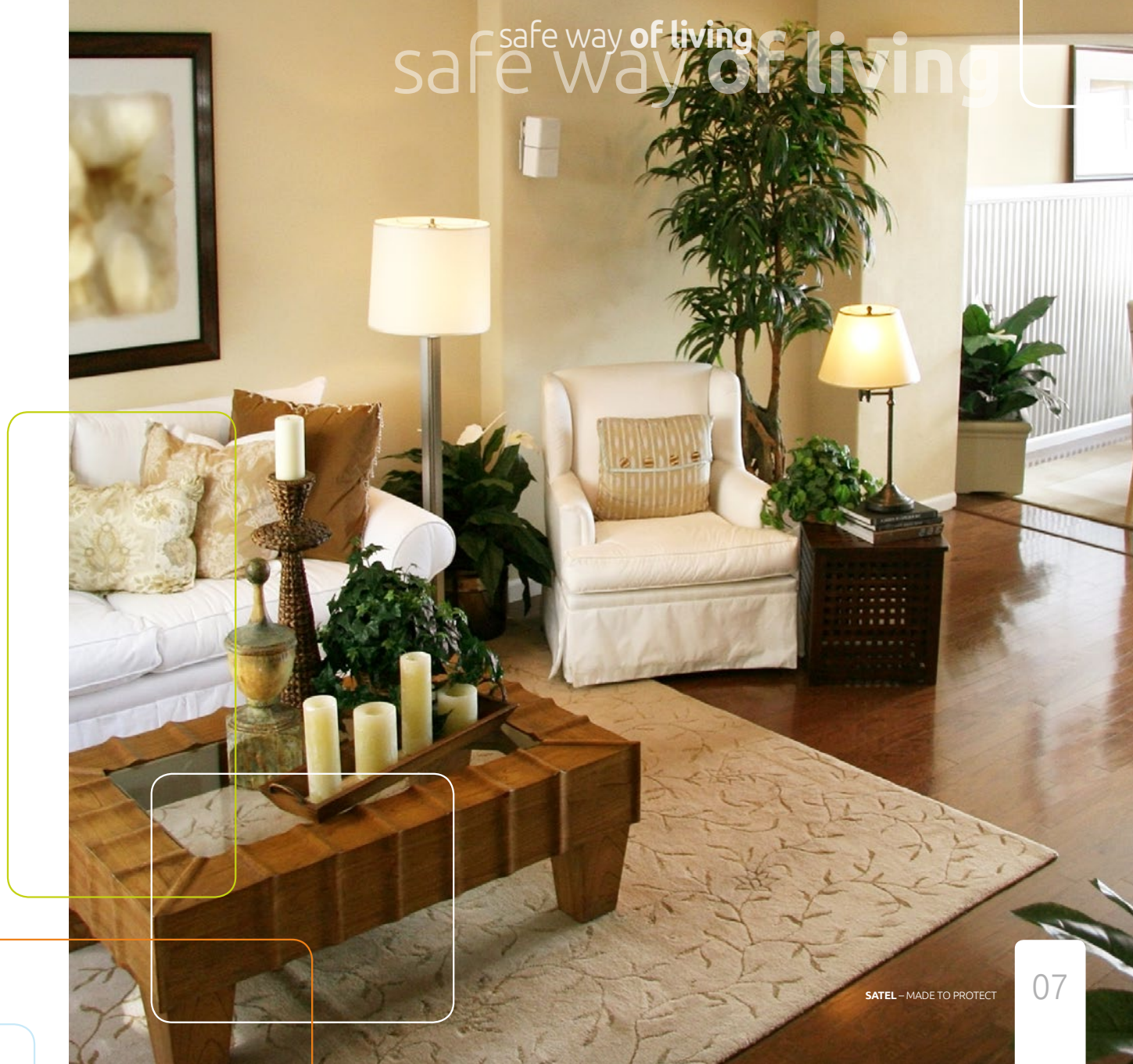
PERFECTA devices are equipped with an in-built GSM/GPRS communicator with voice notifications and notifications via text messages as well as remote control by SMS. This module may be used with two nano-SIM cards.

PERFECTA everyday maintenance is carried out with keypads: wired PRF-LCD and its wireless equivalent: PRF-LCD-WRL. The system may be controlled also remotely by a keyfob and with an intuitive application: PERFECTA CONTROL.



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Securing medium facilities

Systems based on VERSA control panels are a perfect solution for protecting developing houses, multi-room apartments, but also small offices or shops.

VERSA system works both with cable and wireless devices, which are divided into two security zones. For example, at home the zones may cover the purely residential area and the utility area such as garage, workshop or a business activity performed in the same building. Each of the zones may operate in one of the 3 modes: full supervision – when all detectors are active; day – when detectors are active in all unused areas and e.g. window and door protection is on so that the children can move freely about the house also when their parents are not there; and night – when except for the perimeters detectors, also the detectors in the rooms where the inhabitants do not sleep are active.

The system offers various manners of communication to guarantee the reliability of the monitoring and notification. It is also possible to control the system remotely via an application.

For everyday maintenance of VERSA system you can use touch cable and wireless 4.3" and 7" LCD keypads e.g. with card reader and LED keypads. Keyfobs make the maintenance even easier. There is also a mobile application VERSA CONTROL available for users' convenience.



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Securing large facilities

Systems based on INTEGRA panels are a solution best-suited for owners of houses, apartments or companies.

INTEGRA panel consists of a set of various functionalities whose application is limited only by the imagination of its user. The wide scope of devices allows for a precise adjustment of the installation to the specific requirements of the particular investment. Thanks to connecting the alarm system to the functionality of access control and remote administration, everyday maintenance of the system is significantly easier and more effective.

Systems based on this panel may be enhanced with wireless components. This means that if a user decides to develop the system's functionality with additional devices (e.g. flood or smoke detector), or to build an extra garage or adapt the attic, it is possible to further develop the system without dirty refurbishment works.

INTEGRA panel models differ in terms of the number of devices which may be connected to the system and the functionality they offer to their users. During a meeting with you, a professional Installer will find the most suitable panel model to fit the facility requirements and the expectations of its users.



Everyday maintenance of the system can be carried out with touch, sensor and LCD keypads. It can also be controlled with a proximity card and keyfobs. The INTEGRA CONTROL application for smartphones and tablets may be used not only for standby activation and deactivation but also for managing any devices connected to the panel.

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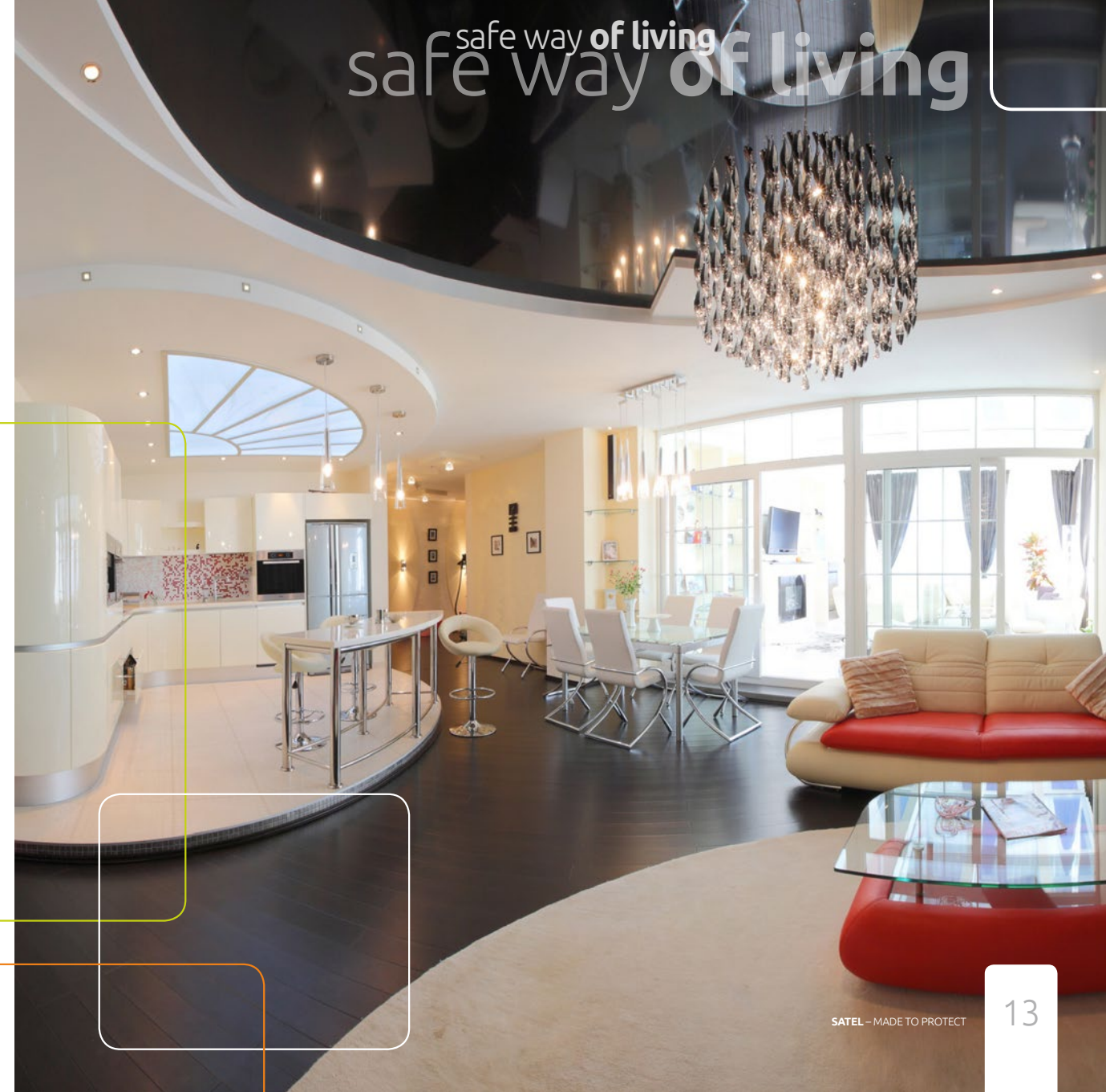


Security and automation connection

A reliable alarm system must above all ensure safety. The functionality of intelligent alarm control panel may also be used for performance of automation systems.

Having in mind solutions which would offer functions such as controlling the lighting, heating, air conditioning, roller blinds, curtains, blinds, garage gate or watering the garden, we have developed an advance touch keypad: INT-TSI. You can find more information about automation and the keypad further in the catalogue.

The panel also cooperates with automation systems according to the European KNX standard. As a result the system may be developed with an even wider spectrum of functionality.



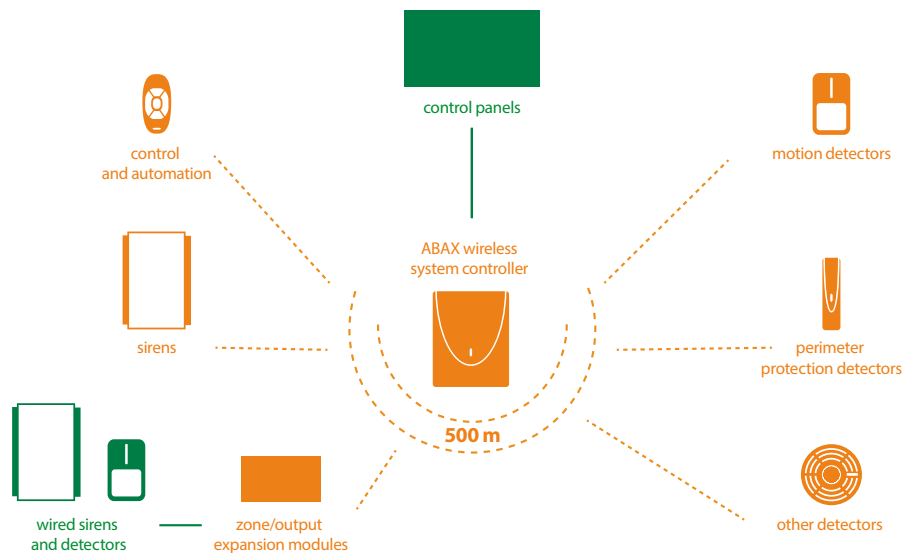
Wireless system development

Wireless systems are a perfect solution for those alarm installations, where laying cables necessary for the proper operation of the system is burdensome or simply impossible.

SATEL offers a rich choice of products with functionality almost identical to cable systems.

All information sent by radio waves is encrypted, which guarantees communication safety and limits the chances of interference in the transmitted data to minimum.

The advanced energy saving mechanisms provide for a long-term exploitation of the devices without the need to exchange batteries for as long as up to 3 years, depending on the configuration.



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Standard keypads

Keypads are used for daily operation of the alarm system. The classic devices of this type, depending on their model, inform the user about the state of the system by means of messages displayed on LCD screen or indicated by LEDs. Which keypad should be selected depends on the complexity of the alarm system. In solutions which are not intended to additionally perform automation tasks, the traditional simple devices will prove ideal.

The LCD keypads in SATEL control panels communicate with the user through an easy-to-understand transparent menu in native language. In the case of simple LED type keypads, you may need to memorize the less frequently used control combinations and the meaning of individual indicators. Arming and disarming the system from a keypad will require the use of password/code, which is a "virtual key" to the system. Another way to facilitate the operation, which is available in some keypads, is the possibility of using key fobs or proximity cards which can make the need to remember passwords unnecessary.

It is worth noting that the keypad is one of the most prominent items of the alarm system. For this reason, you can choose from many models which differ in shape of enclosure and color of backlight so that it can match the individual character of your home or apartment.



Keypads for controlling the house alarm and basic automation

Standard keypads are a perfect fit for everyday basic maintenance of alarm systems. However, if we want to take advantage of the additional advanced automation functions offered by INTEGRA panels, such as controlling the lighting, heating, air conditioning or watering plants, keypads with touch screens such as INT-TSG and INT-TSH or sensory keypad INT-KSG may prove a more suitable choice. The former group of devices offers quality and convenient maintenance well-known from modern smartphones and tablets. The colourful display with a capacitive 4.3" and 7" touch panel make the system easy and fun to use. The big icons displayed on the screen make standby activation and deactivation as well as controlling automation devices much easier. MACRO commands allow the system to perform a sequence of actions with a single touch of an icon symbolizing the particular scenario, which makes using this keypad easy even for inexperienced users. What is more, the attractive design makes it a perfect addition to any interior design - whether modern or traditional. Every keypad model is available in three colours: white, black and steel, so that they can suit the premises where they are installed even better. For those users who cherish classic system interface, but who do not want to give up on the easy house alarm control enhanced with automation components, the optimum choice might be the sensory keypad INT-KSG. Much like the touchscreen key pad, INT-KSG enables easy control over devices by a quick access menu with an individually adjusted set of MACRO commands.



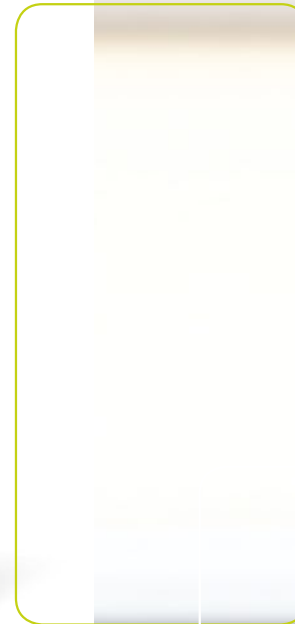
meet our **products****Unlimited capabilities to control
the intelligent alarm system**

The INT-TSI touchscreen keypad allows the user to comfortably operate the home security alarm system as well as to perform even the most complex scenarios of home automation control. The large, 7" touch screen displays clear information about the status of the system components, while the graphical user interface allows easy and intuitive operation.

Thanks to the possibility to display images from digital cameras, keypads can act as real protection centres, combining all of the functions which play crucial role in ensuring security. So, e.g. we can display the image from a camera installed next to the entry gate to see who is moving through the house garden.

The weather widget, which downloads the weather from the website openweathermap.org, provides quick overview on i.a. the temperature, wind, pressure, humidity or rainfall.

INT-TSI can be personalized to suit your needs and preferences: from a simple wallpaper change, which can be replaced with uniform background, selected image or even your own picture by defining the style and function of the individual elements, to complete customization of the interface to the individual needs of the user. The possibility to choose from three neutral colors of the enclosure – white, black or steel – makes the device fit perfectly into any interior.



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The capabilities offered by the INT-TSI keypad are enormous. On its 7" capacitive screen, you can put a lot of information and a number of control keys. The most basic functions of the keypad include, of course, operation of the home alarm system. The clear interface allows you to instantly arm and disarm the system, as well as to see the status of each partition. Designers of the keypad took into consideration even such detail as how to safely display the screen keyboard (which is used to enter the password). The keyboard is displayed each time at a different place, so as to prevent the chance of reading the password from the fingerprints left on the display. With the ability to place on keypad screen the so-called widgets or keys with sequences of assigned tasks, it is possible to control individual elements connected to the system in virtually any way. Complex tasks, such as running the suitable lighting scenario in the selected room or even in the whole house, come down to tapping the dedicated screen widget. You can also put on the screen some buttons which will allow you to quickly call the fire service, medical aid or security agency.

Navigation through all features of the keypad is easy with the tab bar which contains elements grouped thematically and tailored to individual user's needs. The INT-TSI also provides integration with the KNX system bus, which allows you to control virtually every element of smart home. Thus, the INT-TSI capabilities are limited only by the imagination of the user and the installer.



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Sirens

The sirens perform various functions in the security alarm system. The purpose of the indoor sirens is to fill the inner spaces with unpleasant sound, its intensity being close to the pain threshold, which is intended to confuse the intruder and to make him leave the premises. The presence of the outdoor sirens should discourage some intruders from forcing entry into the house or apartment protected by the alarm system. Besides, their loud sound and flashing light are likely to draw attention of other people in the emergency situation.

A good siren must ensure protection against an attempt of deliberate damage or tamper, and, in case of outdoor devices, also protection against adverse weather conditions. Therefore, a well-thought-out and proven design, along with reputation of the manufacturer, can be a guarantee of long-term, trouble-free operation. When choosing the siren, it is advisable that LEDs are used as a light source for optical signaling – not only does it ensure excellent performance, but is also more reliable as compared with incandescent lamps used in the simplest devices. SATEL's products include a range of sirens differing among themselves not only by their shape and size, but also by the applied technologies and protection level. In order to select the appropriate equipment it is necessary to turn to an expert for assistance and assessment of potential risks.



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Outdoor and perimeter protection

The alarm system should be constructed so that it is possible to detect the intruder before they make any damage in the building. The attempt to get through the outer zone of the protected facility will be detected by the dual detectors from OPAL series. Owing to their advanced construction and their casing, these devices work perfectly well in just about any weather conditions. Moreover, the detectors are available in two casing colours so that the users can choose the model more suitable for their elevation colour.

OPAL Plus and OPAL Pro have an additional dusk sensor which supports the house automation e.g. roller blinds control, outdoor lights control, garage gate or entry gate control.

SATEL also offers devices which can help you create a perimeter protection. There are curtain detectors such as AGATE which allow for creating a virtual, invisible fence – „curtain”, whose violation will activate the alarm. Perimeter protection also includes active infrared ACTIVA barriers, which create an invisible barrier by infrared radiation rays. These devices may be used not only to protect doors and windows inside the house but also to provide protection outside of it e.g. along the fence.



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Among the perimeter protection devices there are also devices which are installed inside of the house. Most common models in this group include magnetic detectors which secure doors and windows. These devices consist of two parts: reed switch (magnetic) detector and a magnet. The distance between the two parts results in a dilation of the detector circuit, which is signalled as a violation. Magnetic detectors come in different models varying in manner of installation, size and colour so it is easy to find a suitable one for the doors and windows in our house.

Detection of an attempt to open secured windows or doors is a task which is also suitable for vibration detectors such as VD-1 or wireless AVD-100. These devices react to impact caused by breaking locks or trying to force the hinges.

In case of an attempt to break a window pane or a display window it is the INDIGO detectors' turn to react. INDIGO detectors use sound waves detection mechanism to protect our house.

It is worth knowing that outdoor devices may also be used to secure the house inside. For instance, the curtain detector AGATE is a perfect solution for protection of passages between any rooms which are not separated by doors.



Indoor protection – Passive infrared motion detectors (PIR)

Motion detectors are used to detect the presence of an intruder in a protected area. The SATEL's offer includes a whole range of such devices, among which the passive infrared detectors are the most popular ones.

The simplest detectors available are AMBER and AQUA Plus, which are technically very similar. Both of these devices reliably fulfill their role in the typical domestic premises: living rooms, studies and bedrooms. In addition, AMBER – as well as TOPAZ detector – is one of the smallest devices of a kind. Both detectors have compact, small-sized enclosures, so their presence does not virtually interfere with the appearance of the room. The more advanced GRAPHITE detectors provide an improved signal analysis system, hence they are not only more effective in detecting intruders, but also perform very well in more difficult conditions. They can provide effective protection in larger spaces, and those where natural drafts may occur, e.g. in corridors or lobbies. Wherever the best performance of intruder detection is required, it is advisable to use the IVORY detectors. With their unique design they work perfectly well even in irregularly shaped rooms, while also providing protection directly beneath the detector, owing to the access zone protection.

It is good to know that when choosing to install motion detectors where pets are present, for example a small dog, you should choose a special type of detector. The detectors suitable in this situation are the GRAPHITE Pet and AQUA Pet, which are adapted to the presence of pets.

Quite a unique device is the AQUA Luna, equipped with a LED illumination system. They can be used to light passageways and stairways, as well as to fill the room with a soft light when you are watching movies.



Indoor protection – Dual technology motion detectors

The SATEL's offer of indoor protection is complemented by dual technology detectors. These devices successfully cope with the task of protection of spaces where adverse conditions prevail: there are drafts, hot air vents are used or air conditioner is running.

The detectors owe their resistance to specific design, in which motion is detected by the use of two different physical phenomena to provide desired verification.

SATEL's offers a wide choice of dual detectors which differ from each other not only by size or design but, above all, the combination, type and advance level of the technology used. The basic group covers COBALT devices. Similar functionality, but a smaller casing is offered by GREY detectors. SILVER detectors offers a more advanced protection i.a. with a unique masked intruder detection technology. NAVY detector is an interesting position, which combines motion detection with acoustic detectors for breaking windows, facilitating comprehensive protection of premises with big windows.

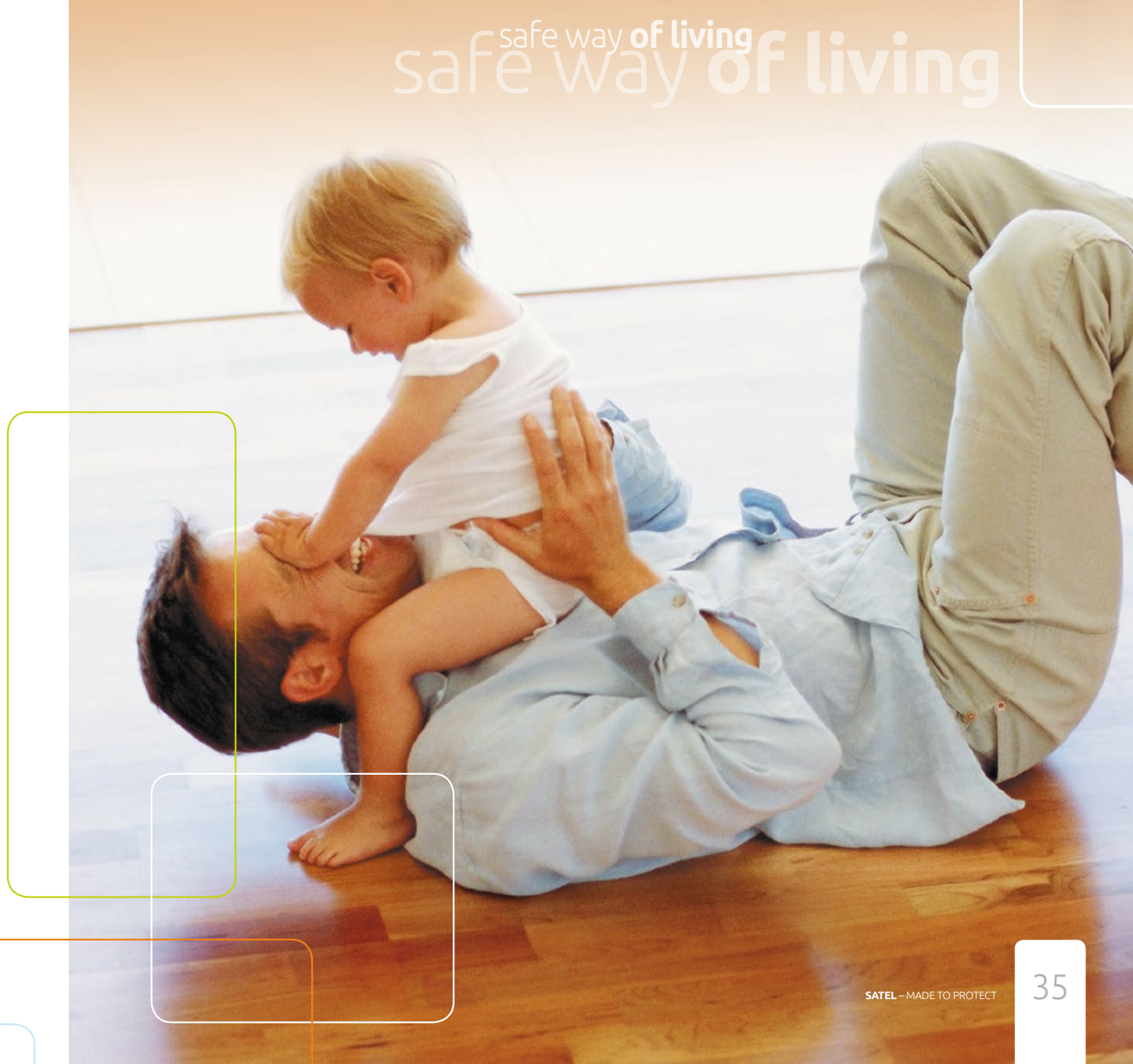
It is worth remembering that some dual detectors also have the PET function, known from PIR detectors, which allows small animals to move around the protected area freely.



Indoor protection – Special detectors

An advanced system can provide a much broader scope of security than just protection against burglary. For this purpose, additional special detectors are used.

If the system is equipped with the DG-1 series of gas detectors, it will detect and warn of the danger of leakage of explosive natural gas or propane-butane, or poisonous carbon monoxide. The use of DG-1 TCM narcotic gas detectors provides additional protection against attempts of an intrusion preceded by swooning the homeowners with chemical substances which can happen, especially in the suburbs. The smoke and heat detector, such as the wireless ASD-110, may allow you to early respond to the appearance of smoke, caused even by the electric iron you left plugged in. Yet another example of a broad approach to security is using the flood detectors, such as the FD-1 or its wireless equivalent AFD-100. These devices can protect us against the effects of flooding caused, for example, by an open tap in the bathroom.



Communication and messaging

Efficient transmission of information on the alarm is one of the key functions of security alarm system. One of the possible options is transmission of the digital signal to the alarm monitoring center supervised by security agencies, using the regular telephone line. Thus the security guards will be able to quickly intervene to protect your property. Another solution is transmission of a voice message, for example, to your cellular phone. An undisputable advantage of the INTEGRA and VERSA control panels is the capability to discriminate between and provide detailed information on the events, so you can know what is going on in your home already at the moment of messaging.

Unfortunately, if the telephone line is out of order – either as a result of an accident or the intruder's action – the control panel will be unable to transmit the alarm information. To avoid such a situation, you can fit your system with the GSM module that will automatically replace the malfunctioning telephone line and enable the control panel to make the emergency connection. Another benefit of connecting the GSM module to the control panel is the capability of the latter to send an SMS message to the home owner – not only about the alarms, but even on your kids coming home from school.

Quite different capabilities are offered by application of the ETHM-1 Plus communication module, using the TCP/IP networks (e.g. Internet). Owing to this device, you can not only supervise your system from any place in the world, but also operate it by using the virtual keypad, available in the web browser. Of course, as with all SATEL's devices, security is the main priority. Therefore, advanced methods of encryption and safeguarding against malicious attacks are used for the network communication in order to prevent unauthorized access.



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Mobile applications from SATEL – full control over your system, wherever you are

For active people who spend most of their time outside of the home, and also for those who appreciate the ability to use the latest technology every day, SATEL has implemented convenient solutions for remote management of the alarm system via mobile devices, such as smartphones and tablets. For each family of the control panels – INTEGRA, VERSA, PERFECTA and MICRA – dedicated mobile applications have been developed.



MICRA CONTROL is an application used for remote control over MICRA alarm system. It allows not only for remote standby activation and deactivation but also for checking the system status and managing the particular devices. All of it simply by pressing one key, without having to remember SMS commands.

For remote management of alarm systems based on PERFECTA panel, we have prepared PERFECTA CONTROL application. It allows for a convenient system standby activation and deactivation, checking the system status as well as reviewing information on any current events. It is also possible to control the devices included in the system. The application takes advantage of the GPRS transmission package and due to its compatibility with PUSH messages, it ensures continuous information for the user.

There is also a dedicated application for VERSA panels called VERSA CONTROL. Its functionality includes convenient control over the system and home automation components. This application also allows for viewing images from the cameras protecting your home. Connecting VERSA CONTROL with the panel could not be easier – it only requires MAC address from the integrated ETHM module (VERSA Plus/IP) or ETHM-1 Plus module connected to the panel (VERSA 5/10/15) and the ID number of the panel, which can all be easily found and read from the keypad on the user level.

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INTEGRA  ios
CONTROL

If you are looking for a more advanced solution, suitable also for much more developed alarm systems, based on INTEGRA and INTEGRA Plus panels, INTEGRA CONTROL is an application for you. It has been designed so that the screen of the smartphone or tablet displays the image of the alarm system detector, so that using it is just as intuitive as using the real device installed in the facility.

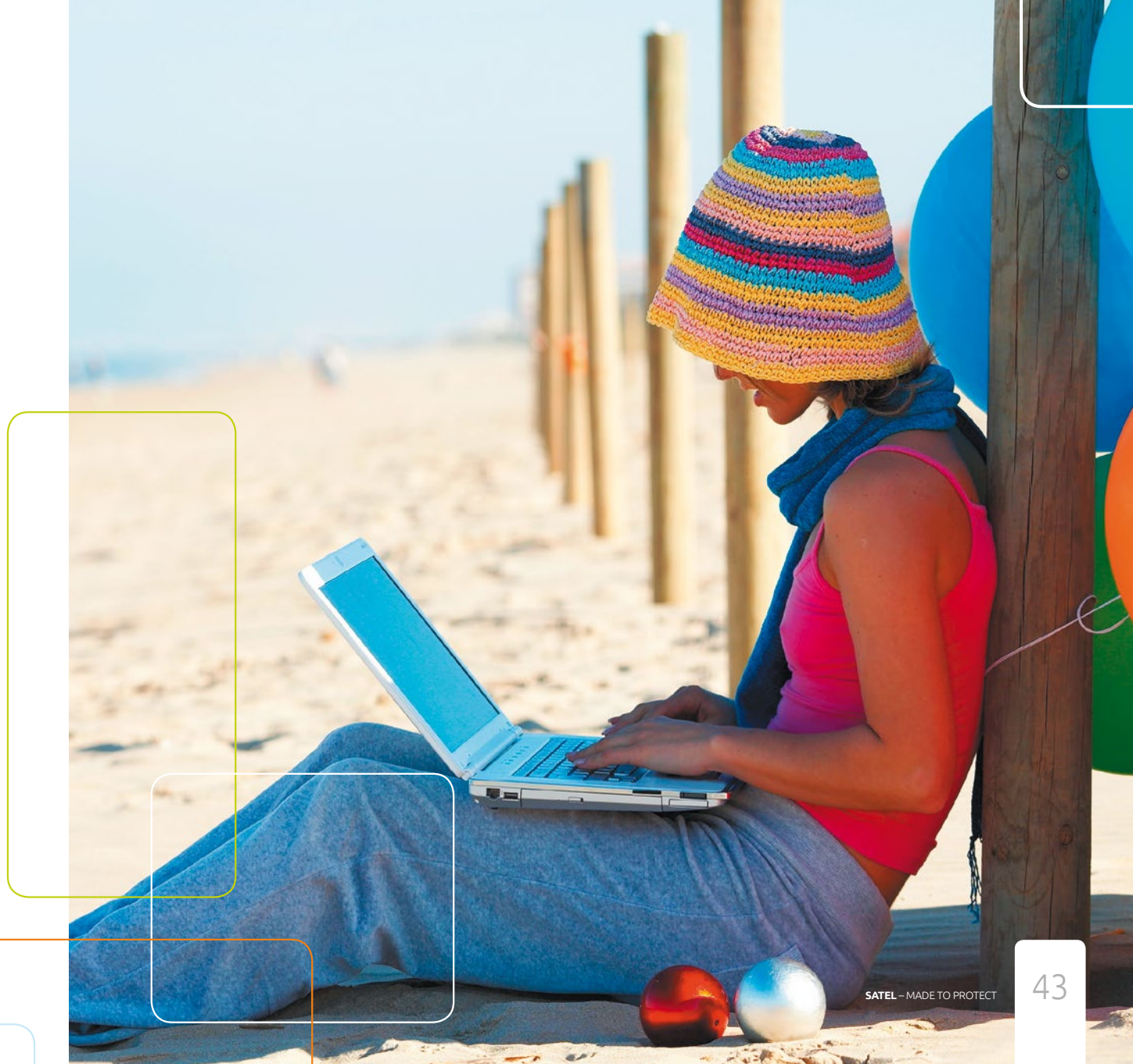
INTEGRA CONTROL interface allows you to make both basic operations in the system and to send much more complex tasks i.a. checking the security status in the particular zones. The application menu provides quick access to the particular system commands. It also includes four additional functional buttons which may be used as shortcuts to the particular menu subfolders, or which may initiate MACRO commands recorded earlier as defined scenarios. These commands allow you to start e.g. closing the roller-blinds, dimming the lights and rolling out the projector screen at the same time – so by touching just one dedicated icon, you can prepare your living room for a session of home cinema.



Remote control of the system

With advanced communications systems using GSM and TCP/IP (Internet) technologies, you can be in constant contact with the alarm system in your home. This allows you to immediately respond to a variety of events. While at work, you can use your computer to make sure you did not forget to arm the system when leaving the home in the morning. When standing in a traffic jam in the winter, you can send an SMS to turn on the central heating in advance and arrive to a warm home. If, for the time of your absence, your home is left in charge of trusted neighbors, you can disarm the system remotely using a mobile phone to let them in to water your favorite plants. Then, after making sure that the house was locked back, you can re-arm the system in the same way.

If your system is connected to a security agency, please check if the agency uses a STAM-2 monitoring station. This software enables the agency employees to effectively supervise the protected facilities and immediately react if the system signals a threat. The remote access to the monitoring station is provided by the application STAM-VIEW. You will be able to review the events in the system, communicate with the station operator and verify the speed of reaction of the security agency and their actions by using your computer, phone or tablet.



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Day and night protection

Before you start planning the security alarm system for your home, it may be worthwhile to consider which elements of its surroundings and when should be protected. By selecting additional, independently controlled partitions, you can customize the system to be better suited to your individual lifestyle and to ensure maximum safety for your family.

Division into zones may be organized in different manners. For example it is possible to divide the area into an internal and external zone. By separating these two parts it is possible to adjust the security system to your everyday life. When you leave the house, you turn on full supervision – then both opening of doors and windows and movement of people inside the house will set the alarm off. At the same time if e.g. your children stay at home, a well-configured system may initiate perimeter detection at any given time. In this case your children will be able to move around the house freely, while any attempt to come in from the outside, either by doors or windows, will be immediately detected by the perimeter protection detectors and you will be informed immediately. It is worth remembering that the second protection zone does not have to cover the whole outdoor area, but a chosen facility on that area e.g. garage, storage place, greenhouse.

The division of the system into zones may also take place inside the house. One may include the bedroom, bathroom and kitchen and the other – other remaining rooms. At night you can turn on the full protection in that latter area, while you and your close ones will still have the possibility to go for e.g. a glass of water without setting off the alarm.



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Lighting control

When you are away for a longer time, be it holidays or business trip, the INTEGRA based security alarm system will be able to simulate the presence of family members, which may discourage a potential burglar. You can control the light automatically according to the programmed timing diagrams, or in response to specific events (for example, in conjunction with dusk sensor).

The control of lighting is not only presence simulation. The features of the INTEGRA control panels allow the system to automatically turn on the light in the corridor or on the stairway as soon as the detector senses your child going to the bathroom at night. If you want, the light will turn on with a limited intensity at nighttime, so as not to wake up your family. When you are coming home in the evening, your hands busy carrying shopping bags, the light in the lobby can go on automatically when you open the door, so you don't have to reach for the switch in the darkness. In addition, using your mobile phone you can turn the light on or off in any desired moment, for example, in your living room, without leaving the comfortable couch. After all, the INTEGRA means not only safety but also comfort.



It's worth mentioning that by the use of INT-KNX-2 module, INTEGRA system may as well control KNX bus managed lighting. This enables very flexible home automation functionality and easy expansion of the system in the future.



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Heating and air conditioning control

Using the INTEGRA control panel for heating control can bring you measurable savings in energy costs.

The control system can be programmed according to your daily rhythm, so that comfortable heating is switched on just before your arrival. This way you return to a warm house. When you are away from home, the system will automatically go into economy mode. If, by way of exception, you have to stay longer at work, you can change your daily schedule via the Internet. Forget about having to close the valves when airing the room – the system can automatically turn off heating when the window is opened. This solution allows also control of the air conditioning operation – thus, both in winter and summer, the SATEL system will provide you with maximum comfort and considerable savings.



By installing INT-KNX-2 module you will gain the possibility to integrate the components responsible for safety and the devices connected in KNX standard and dedicated to controlling heating and air conditioning within a single system.



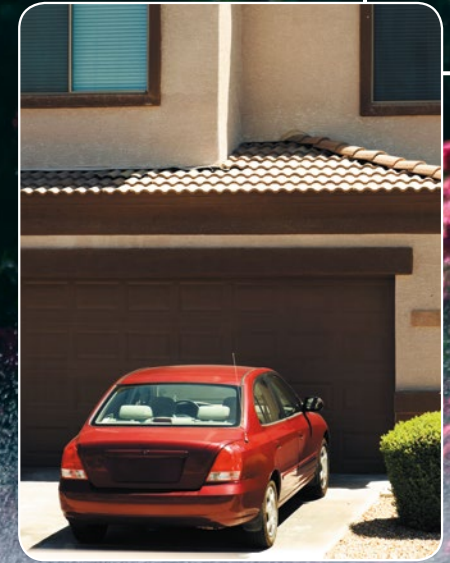
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Automatic garden watering, roller shutter and garage gate control

Having a system based on the INTEGRA control panel, you can also take care of your garden. Automatic watering of the greenery will start at the present time, unless rainfall comes first. The anti-burglary roller shutters can be automatically lowered at the moment of arming – you do not have to bother about it anymore when leaving the house or going to bed. When you come home and disarm the system, the roller shutters will rise automatically, filling your home with sunshine. If you would rather control the roller shutters manually, you can group them according to your wish so as to open or close some of them by using just one button.

Such integration provides you with a simple way of managing the work of the elements of the system by using a mobile phone or a keyfob. You no longer need to carry several remote controls to separately operate garage door, gate and alarm system.



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Child-friendly home

First and foremost, the alarm system means safety, including the safety of the youngest ones. If we want our kids to enjoy the benefits offered by an alarm system, this must be taken into account at the planning stage of the system. For example, the keypads to be used by children must be placed low enough to allow them not only to press the keys but also to read the information provided by the system. An interesting solution for the youngest ones can also be keypads equipped with a proximity tag reader. All the child will have to do is to present its tag to the keypad to easily and reliably disarm the system after returning from school. Another facilitation for the kids can be keyfobs for arming or disarming the system – thanks to them, the whole operation of the system will be as easy as pressing the proper button on the keyfob. To make sure that our child returned home from school safely and in time, you can use the notification feature available in the INTEGRA and VERSA panels. Thus, as soon as the child will have disarmed the system, a notification will be sent to you, e.g. by an SMS message. And every parent knows how invaluable such information is! Your alarm system can also take care of monitoring the time spent by your children at the TV or computer – simply program the timer to determine exactly at what times it will be possible to use digital entertainment.

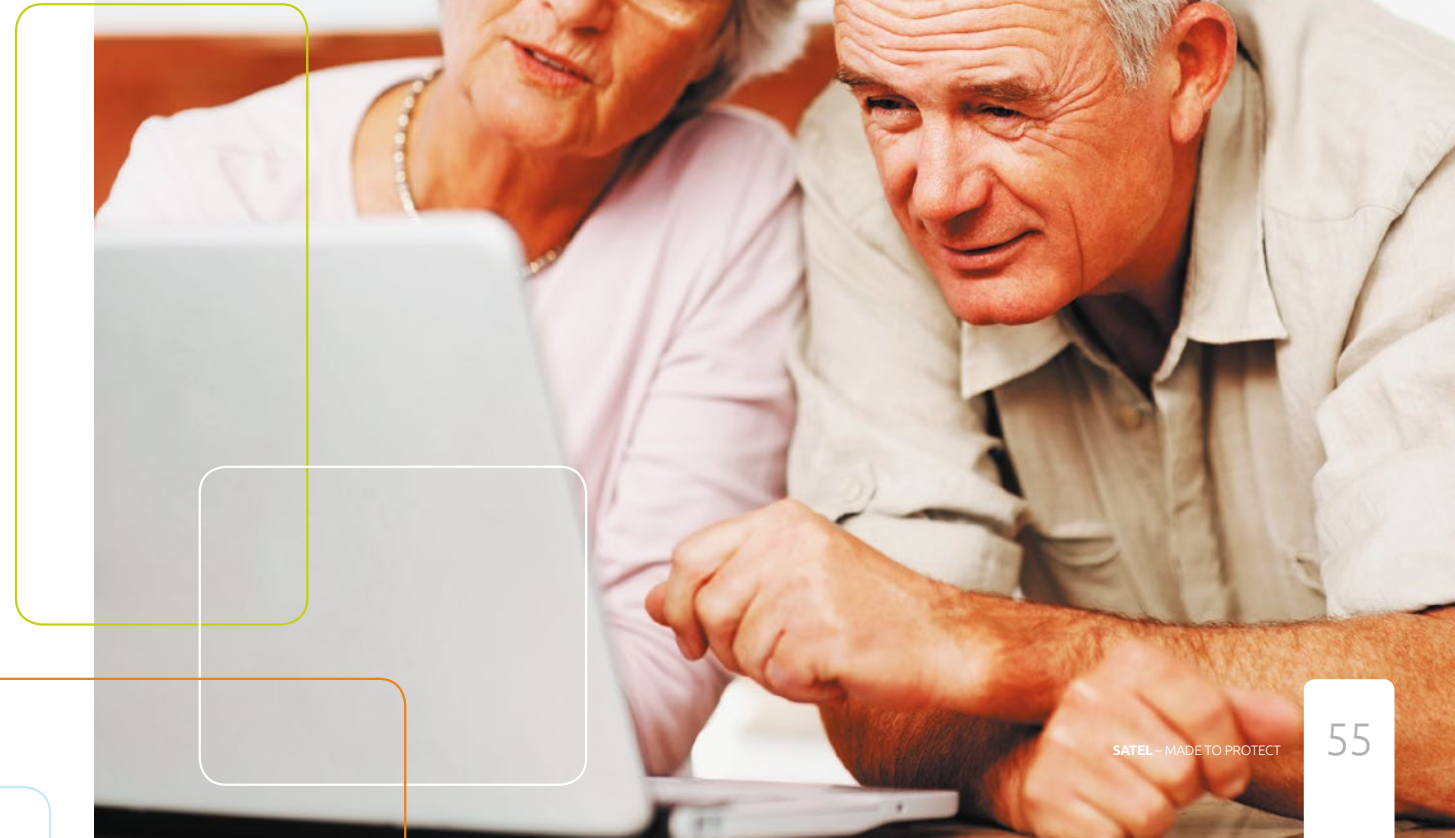


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Addressing the needs of the elderly

The everyday operation of the SATEL alarm system is not complicated. However, if you do not want to memorize the control codes, you can use the proximity tags / proximity cards or keyfobs. Thus, all you have to do to arm or disarm the system is to bring the proximity tag / card close to the keypad / reader, or to press a button on the remote control keyfob. These operations can be acknowledged by the control panel with a voice message. In this simple way operation of the system will become easier for the elderly people.

To allow seniors to use the keypad, it is recommended that you choose one that provides the maximum legibility of information. Standing out in this regard is the INT-KSG, which – apart from its large screen – provides easy-to-operate touch-sensitive keys with efficient backlighting. These features make it easier for older people to use all the facilities offered by modern systems. The alarm system also allows you to trigger an automatic emergency call when necessary. For this purpose, you can use either keyfobs that you can always carry with you, or special buttons located in selected places.



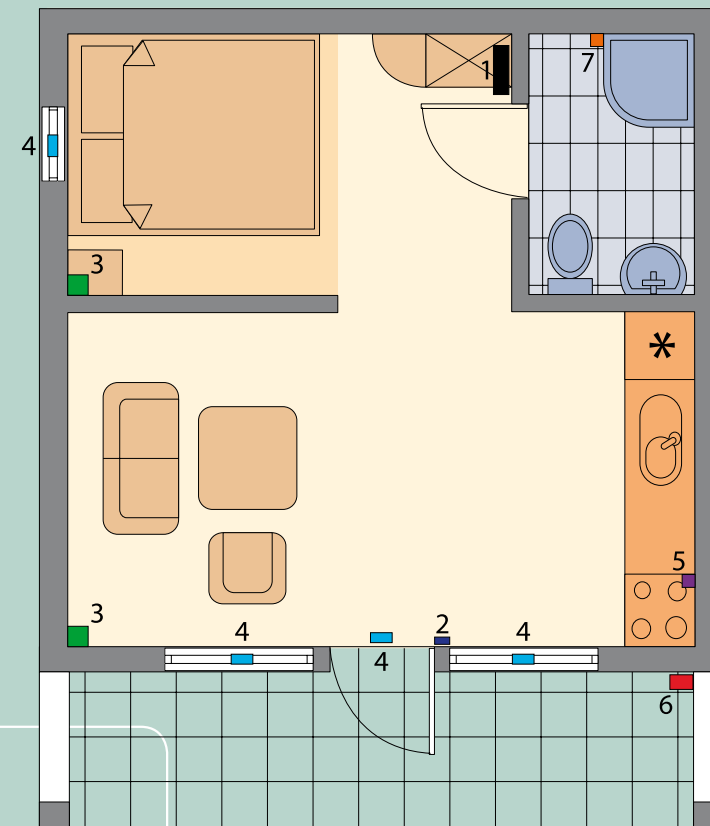
Simple wireless alarm system for a cottage

Protection for a holiday cottage is based on the MICRA alarm module. The basic functions of intrusion detection can be implemented with wireless sensors which makes the installation as easy and quick as possible. You can extend functionality of the system by adding some wired detectors, for example, the flood detector. With the built-in GSM/GPRS communicator, just insert the SIM card into the MICRA module to be able to use the SMS notification of events.



Example configuration

1. MICRA alarm module + MTX-300
 2. MKP-300 wireless keypad
 3. MPD-300 motion detector
 4. MMD-300 magnetic contact
 5. MSD-300 smoke and heat alarm
 6. MSP-300 R outdoor siren
- Remote control keyfob MPT-300
optionally:
7. MFD-300 flood detector



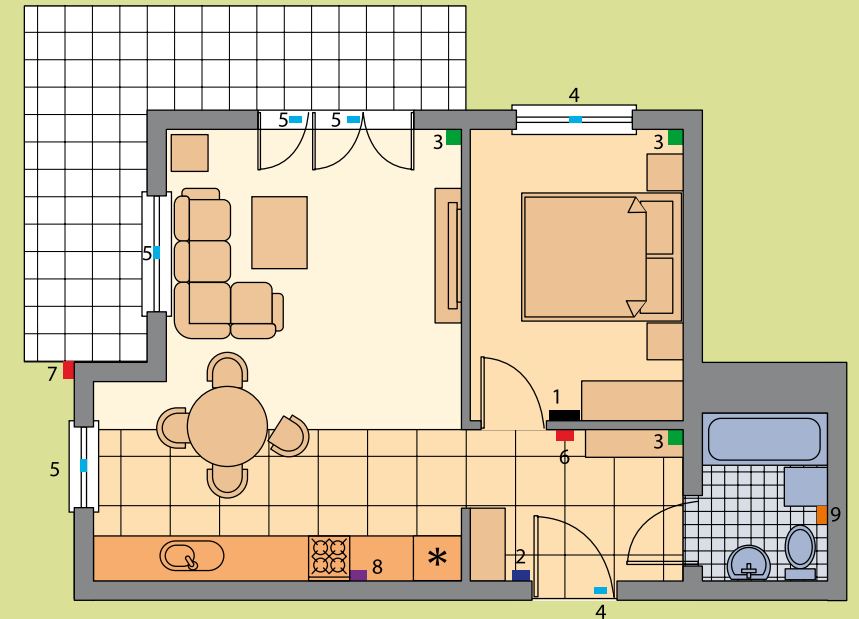
Hybrid alarm system for small apartments

This alarm system is based on PERFECTA 16-WRL panel which allows for simultaneous use of wireless devices and economic cable models. It is the perfect solution for apartments and smaller houses, which provides the possibility to develop the installation quickly and easily in the future. Convenient remote control from a mobile application and by keyfobs as well as PUSH, SMS and audio notification support are only some of the advantages of such system.



Example configuration

1. PERFECTA 16-WRL control panel
 2. PRF-LCD keypad
 3. TOPAZ Pet motion detector
 4. K-1 magnetic contact
 5. MMD-300 wireless magnetic contact
 6. SPW-220 indoor siren
 7. MSP-300 wireless outdoor siren
- Remote control keyfob **MPT-350**
- optionally:
8. MSD-300 wireless smoke and heat detector
 9. MFD-300 wireless flood detector



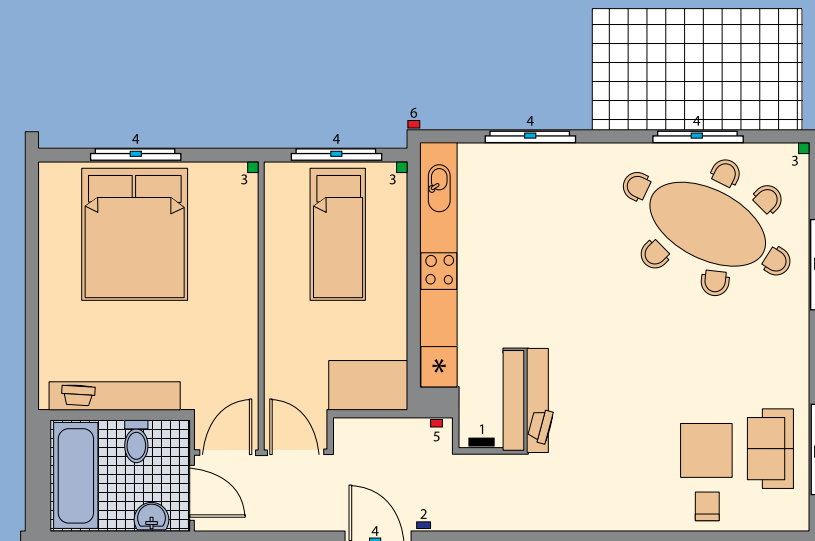
Alarm system for a three-room apartment

This alarm system is based on VERSA Plus panel. It is perfect for apartments and small houses. It provides the possibility to create a cable, wireless or hybrid system. VERSA Plus combines functionalities which until now have only been possible by using a couple of separate devices. This makes it an efficient and quickly installed solution. The system based on this panel guarantees many communication methods i.a. e-mail, SMS, PUSH and audio notification.



Example configuration

1. **VERSA Plus** control panel
2. **VERSA-LCDM-WRL / INT-TSG** keypad
3. **AQUA Plus** motion detector
4. **K-1** magnetic contact
5. **SPW-220 R** indoor siren
6. **SP-4003 R** outdoor siren



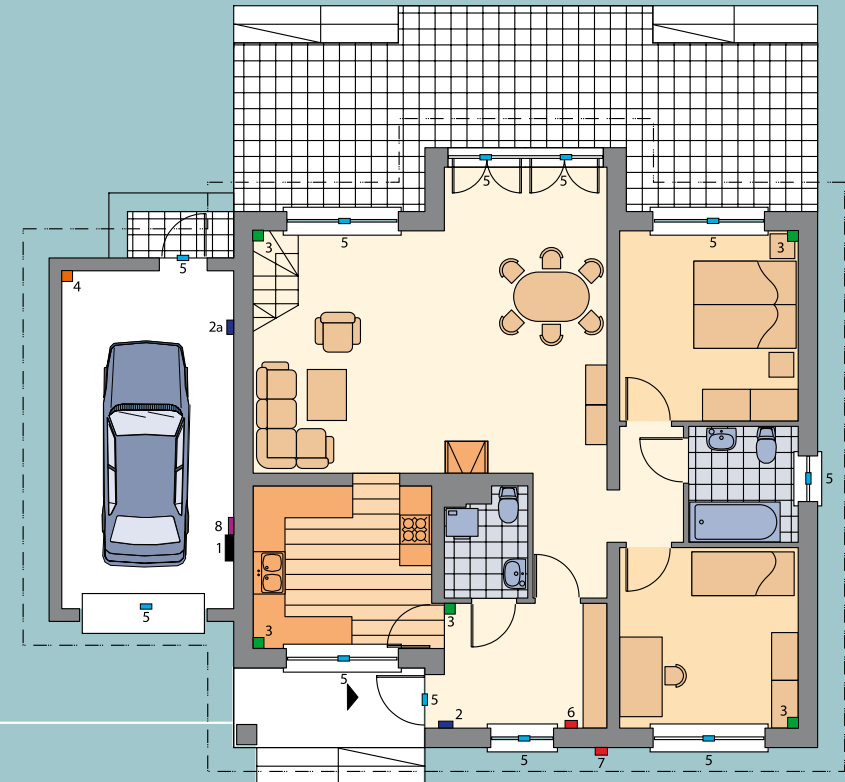
Alarm system for a small single-family house

A security alarm system based on the INTEGRA 64 control panel. Having 16 zones and 16 optionally configurable outputs, the control panel ensures high security level for middle-size buildings, while the GSM LT-1 messaging module allows reliable communication in any circumstances. In addition, extensive scalability and advanced functionality of the control panel allows you to use it for building a home automation system.



Example configuration

1. **INTEGRA 64** control panel
2. **INT-TSH/INT-KSG** keypad
- 2a. **INT-SF** partition keypad
3. **GRAPHITE** motion detector
4. **SILVER** dual technology motion detector
5. **K-1** magnetic contact
6. **SPW-220 R** indoor siren
7. **SP-4003 R** outdoor siren
8. **GSM LT-1** communicator



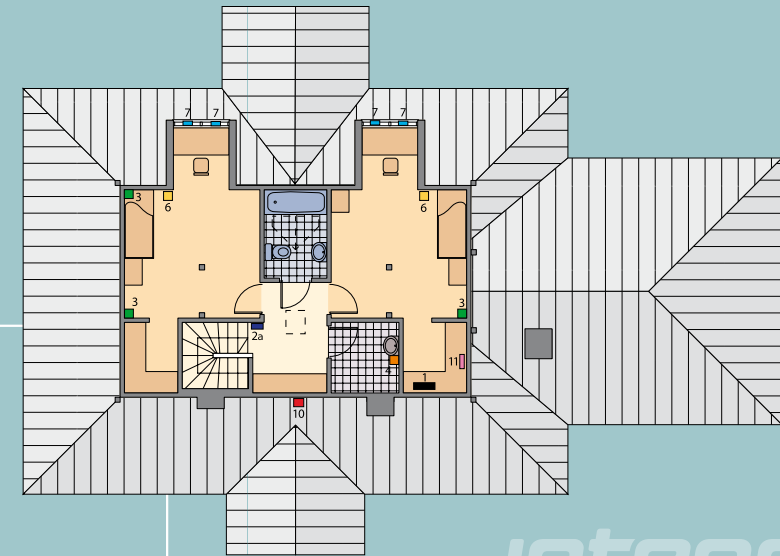
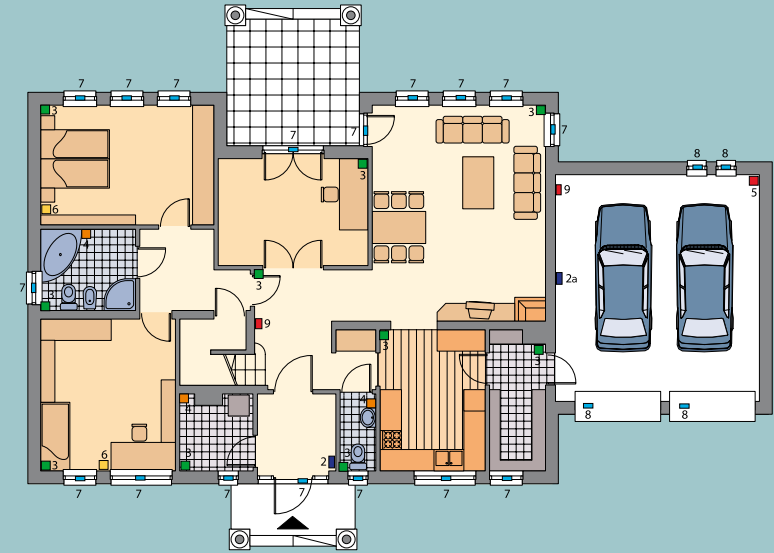
Alarm system for a large single-family house

A security alarm system based on the INTEGRA 128-WRL control panel. Versatility of the devices cooperating with this control panel makes it possible to use it not only in the burglary and panic alarm systems, but also in the building access control and smart management systems. The main advantage of this control panel is the freedom to use both hardwired and wireless devices. The built-in GSM/GPRS communicator ensures reliable communication in any circumstances, while the additional ETHM-1 Plus module enables the system control to be controlled via the Internet or by using a mobile phone.



Example configuration

1. **INTEGRA 128-WRL** control panel
 2. **INT-TSI / INT-TSG** keypad
 - 2a. **INT-SF** partition keypad
 3. **APD-100** motion detector
 4. **AFD-100** flood detector
 5. **SILVER** dual technology motion detector
 6. **DG-1 TCM** narcotic gas detector
 7. **AMD-101** wireless dual channel magnetic contact
 8. **S-4** magnetic contact
 9. **SPW-220 R** indoor siren
 10. **SP-4003 R** outdoor siren
- optionally:
11. **ETHM-1 Plus** TCP/IP communicator



MADE TO PROTECT

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To make life easier

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- Wireless system development
- Standard keypads
- Keypads for controlling the house alarm and basic automation
- Unlimited capabilities to control the intelligent alarm system
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- Outdoor and perimeter protection
- Indoor protection – Passive infrared motion detectors (PIR)
- Indoor protection – Dual technology motion detectors
- Indoor protection – Special detectors

meet our solutions

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Since the establishing in 1990, each and every year of SATEL's activity brought to the market new products intended for protection of people and property. Our product portfolio contains a wide range of devices and accessories for security systems, as well as the devices for central monitoring stations. Strategic investment in new technologies and innovative solutions allow us to keep leading position on the market. Our missions is to provide security for both individual and corporate customers, and the raising of quality standards for the whole people and property security industry.

The „Safe Way of Living“ catalog is a guide to the elements of modern, intelligent alarm systems, their functions and application examples.

We will begin presentation of the security systems with an overview of the essential components of the alarm system, including description of their basic features and purpose. We also want to show you the enormous opportunities offered by our products. You will learn the advanced solutions that will inspire you to create a system tailored to the needs of your family. We will also provide diagrams, showing correct arrangement of the presented devices in typical areas.

We hope that the information contained in this catalog will inspire you to create a system that fits your family's needs. We wish you pleasant reading!

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The manufacturer reserves the right to change the specification and technical data of devices. Images shown are for general information only and may differ from actual products. (IND_0317)