

Intelligent
Security Solutions

Satel[®]



INT-KNX-2

KNX SYSTEM INTEGRATION MODULE

COMBINATION OF SAFETY AND COMFORT

You are not sure
if **the INTEGRA automation**
is for you?

Just imagine that...



... you get up in the morning during the week.

The INTEGRA has switched the heating into comfort mode and turned on the bathroom underfloor heating in advance. Thus, when you rise, woken up by the music from your favorite CD, pleasant warmth will surround you, and the word "alarm clock" will no longer be associated with something unpleasant. The curtains draw open automatically, letting the first rays of the sun into the bedroom. Your children wake up in the same way. You no longer need to call them to breakfast, because they know that hot, aromatic toasts and juice from freshly squeezed fruit are waiting for them in the kitchen. And you ...? you go down to the kitchen, where freshly brewed, hot espresso coffee is waiting for you. **That is called a great morning!**

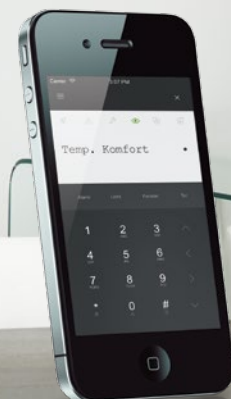


... going out to work.

Select the "Leaving the house" scenario on the INT-TSI keypad. At this point, all the lights left will turn off. Heating and air conditioning are switched into economy mode, and the anti-burglary roller shutters are lowered. The alarm system activates to provide you with the best protection against a visit of uninvited guests. The garage door opens automatically, and a moment later the entrance gate opens as well so that you can begin your daily journey to work. **Have a nice drive!**

... coming home from work.

The INTEGRA system will switch in advance the heating and air conditioning in the comfort mode, so as soon as you get home, the temperature in the rooms will be just how you like it. Are you planning to go home earlier or later than usual? Nothing can be simpler, just run the INTEGRA CONTROL application on your smartphone and remotely switch over the heating mode. When approaching your house, use your mobile phone or key fob to open the entrance gate and garage door; at the same time, the roller shutters will raise, letting sunlight into the rooms of your home. When returning home in the evening you open the front door and the lights in the hallway come on automatically. After all, with bags full of goodies for today's dinner, it would be hard for you to turn on the light. Coffee machine is just brewing your portion of the aromatic beverage. **Everybody knows: East or West, home is best!**

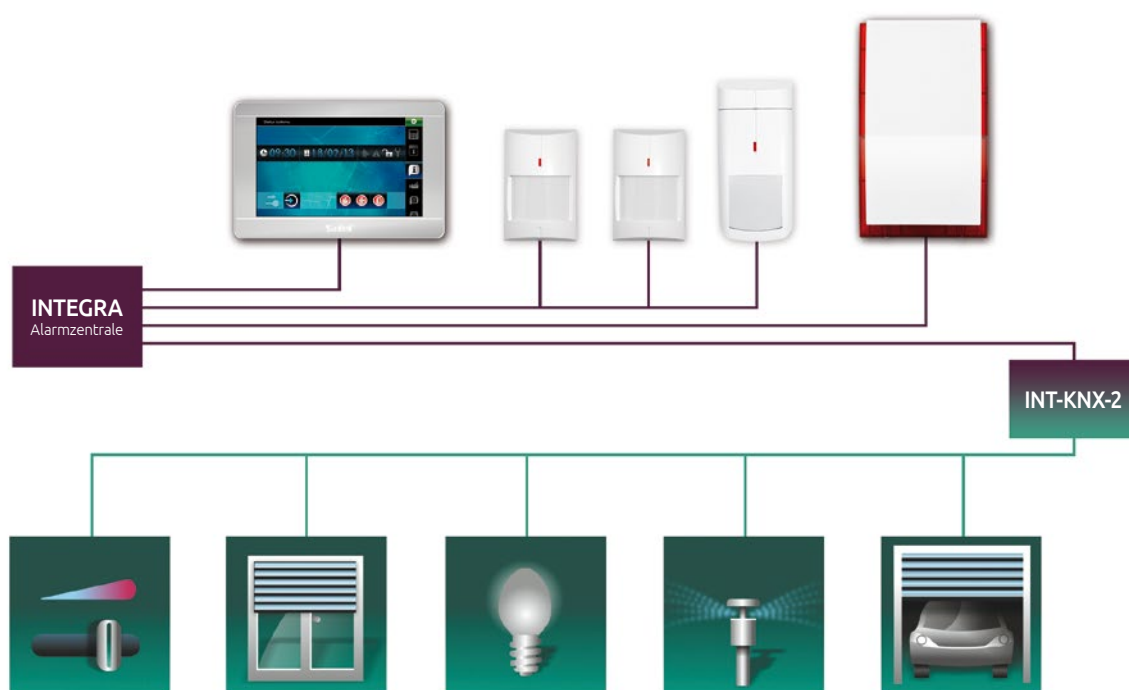


INT-KNX-2 enables the interconnection between INTEGRA security system and KNX european home automation system. In effect, it is possible to get greater functionality compared to individual systems. This combination not only allows higher security and safety, but also noticeably improved living comfort and energy savings.

INT-KNX-2

Safety, comfort and savings at your fingertips

- Combination of an alarm system and home automation
- Visualization of the alarm system status on KNX displays
- Remote visualization of the KNX system status in the GUARDX program
- Improving the quality of life with the use of intelligent technologies
- Convenient remote control via smartphones
- Selecting light scenes on the sensor touch keypad with a single command
- Control of lighting, ventilation and heating
- Energy savings by intelligent management
- Ability to use both new and existing installations



The INT-KNX-2 module makes it possible to combine the functionality of systems based on the INTEGRA system with the KNX home automation system. Such a combination **allows you to control KNX devices using the INTEGRA system** and enables the INTEGRA control panel to receive information on the status of KNX devices. The main benefit of using the INT-KNX-2 is extension of the capabilities of both systems through synergy, but also reduction in the total cost of the installation.

combination of safety and

safety,

Combination of intelligence and security

The overriding goal of the INTEGRA system is to ensure security through the functionality of the alarm system. However, its capabilities are much broader. With its help you can also get the comfort offered in the intelligent building systems. Taking advantage of the full integration, you can use the common elements of the installation to achieve this goal. For example, the motion detectors, which detect an intruder at the time of surveillance, can automatically turn on the light in the hallway when motion is detected. Integration means also additional benefits, for example, the possibility to simulate the presence of household members. Due to its functionality, the INTEGRA can turn lights on and off, raise and lower roller shutters or draw curtains open, making it difficult for outside observers to find any longer absence of the owners. It is worth noting that the INT-KNX-2 module also allows you to combine the maximum safety with a wide range of automation equipment in the KNX standard, and so the INTEGRA offers one of the most versatile solutions.



Lighting control

Using the available KNX lighting control modules **you can conveniently arrange lighting scenes** in the rooms where family members spend a lot of time. Depending on individual needs, you can not only turn on and off selected groups of lamps, but also adjust their brightness. With the INT-TSI touchscreen keypad you can switch between different lighting scenes using a single command. The system can also be configured so that the INTEGRA will take care of turning off all the lights in the building, which will help to further conserve energy as the household members are leaving the house.



Control of heating and air conditioning

Intelligent heating control provides not only convenience, but the real energy savings. You can easily configure the INTEGRA system so that the air conditioning will turn off and the heating will switch to economy mode as soon as the armed mode is activated. This can be facilitated, for example, by the KNX system drives of radiator valves or distribution valves for underfloor heating systems. To control the operation of air conditioners, you can use the special KNX controllers that support devices of different brands, and the "universal" solutions which send commands to the air conditioner using infrared. If the solution is to be truly intelligent, it is worth making use of the open window detectors connected to the INTEGRA control panel. Thus, opening the window will automatically turn off the air conditioning or heating.



quality of life • flexibility and versatility of

comfort and savings

KNX system integration module

Comfort on the property

The INTEGRA control panels, which form the core of the automation system, can also provide comfort around the house. With their accessible features, they can **control opening e.g. the property entrance gate, or garage door**. To open them you can use both the universal remote control key fobs and the mobile phone. This helps reduce the number of devices you have to carry with you. The INTEGRA system can also take care of turning on the lights in the garden. Using the KNX dimmers you can get moody twilight conducive to an evening barbecue and automatic illumination of the paths when motion is detected.



Control of roller shutters and curtains

The KNX modules allow you to **control the external roller shutters or louvers** so as to regulate the amount of outdoor light reaching the interior. Even motorized curtain rods are available to **automatically draw the curtains open**, e.g. controlled by the INTEGRA timers, so you can have a natural morning wake-up call. Of course, you have always the option of programming the INT-TSI touchscreen keypad so as to control the roller shutters or curtains with a single command.



Well-kept garden

The intelligent system **can also keep your garden in good condition**. Using the INTEGRA, you can control the various devices that ensure watering of the greenery, for example, lawn sprinklers or drip irrigation systems. In a similar way you can ensure watering of plants collected in the winter garden, equipped with electrically operated irrigation control valves. The watering can be started in accordance with a preprogrammed schedule, as well as run remotely on demand, for example, using a mobile phone.



configuration • unlimited communication

at your fingertips

Convenient control – remote and local

A wide range of control options in the INTEGRA control panels becomes particularly useful when it comes to the intelligent building systems. **The INT-KSG touch sensor keypad, as well as INT-TSG, INT-TSH and INT-TSI touchscreen keypads**, may not only arm or disarm the system, but they also **offer convenient solution to control the INTEGRA system automation devices and the KNX devices**. With the ability to customize the available menus, you can easily, using single commands, select the lighting scenes, control the raising of roller shutters or the position of louvers, and even control the air conditioning. In the same way you can run different scenarios combining multiple items. For example, the “Leaving the house” scenario can turn off all lights, switch the heating into economy mode, lower the roller shutters and, finally, arm the alarm system. The **INTEGRA control panel**, equipped with a proper communication module, **enables you to execute the same level of control using SMS messages or applications for regular cell phones, as well as modern smartphones and tablets, like iPhone or devices based on Android system**. It is also possible to use a laptop with Internet connection for this purpose – when on a business trip, after checking the mail, you can connect to the INTEGRA system and start, for example, watering your lawn.



Applications for INT-KNX-2 module:

- Modern houses and apartments
- Hotels and guesthouses
- Office buildings – own and rented spaces
- Modern school buildings
- Public Buildings



possibilities • remote control

... organizing a movie night with friends.

How nice that you have bought a new flat screen TV and a home theater! At last you all will be watching the cinema-quality images with a spatial, realistic sound. If you want to really feel like in the cinema, just run the "Movie Night" scenario, using the INT-TSI keypad. At that point, the INTEGRA will lower the blinds, extinguish the light in the living room and turn on the delicate side illumination, so that your eyes will not be so tired after the show. When you want to go to the kitchen or bathroom during the performance, the light in the hallway will come on automatically – **that is called a smart house!**



... going to sleep after a long day.

Lying in bed, activate the night armed mode from your smartphone using the INTEGRA CONTROL application. The external roller shutters will lower automatically, and the curtains in the bedroom will close. Backlight of the AQUA Luna detectors in the hallways and stairwell turns on, illuminating the corridors with a soft light. The perimeter protection activates, giving you the freedom to move around your house at night without compromising safety. The INTEGRA control panel will watch over your peaceful sleep. **Good night!**



... going away on vacation.

At last, there comes the moment you have been waiting for all year long. The vacation. Sun, beach and no worries. When leaving the house, you will only come back in two weeks, turn on the "Vacation" scenario, using the INT-TSI keypad functionality. The lights go out, the roller shutters go down automatically, and the heating and air conditioning go into the economy mode. The system enters the armed mode, seemingly as every day. This time, however, the heating will not turn on until you return from your voyages – after all, why waste energy. Moreover, the system will simulate your presence for the whole time when you are away from home, to mislead any potential watchers with wicked intentions. At pre-programmed times, the system will take care of watering the greenery in your garden. Additionally, you can check the system status using your smartphone any time you want, to comfort you even more. And all this is done so that upon your return you can find your four walls in the state you missed being away from home. **Have a nice vacation!**

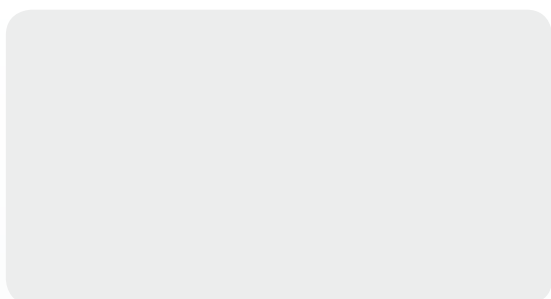
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The manufacturer reserves the right to change the specification and technical data of devices. Images shown are for general information only and may differ from actual products. (IND_0816)



MORE THAN 25 YEARS OF EXPERIENCE

Professional protection of each type of premises, as well as people staying therein, through advanced, yet functional and cost-effective solutions – these few words may serve as the shortest description of the mission of SATEL, a manufacturer of security systems with involvement of 100% Polish capital. Due to integrity in business and a special emphasis on high quality and a wide range of products offered, the SATEL brand has been highly appreciated in the industry for over 25 years.

This philosophy of management and hard work of more than 280 SATEL's employees produce tangible results. The wide range of over 400 offered products provides countless opportunities to create security, home automation, fire alarm, access control and monitoring systems, tailored to the individual needs of each user. At the same time, these systems meet all requirements prescribed by Polish and international regulations and industry standards.

Bringing the functionality of devices into line with current requirements and expectations of the market with the use of the latest technologies is one of the main objectives of SATEL. For this reason the design and production departments of the Company are continuously being modernized and expanded. A natural consequence of all actions aimed at the production of top-quality devices was the introduction of the quality management system conforming to ISO 9001:2000 in 2002. Regardless of this certification, SATEL also carries out a full functional test of all products leaving the production line, thus ensuring reliability of the manufactured devices. Focusing on modern design and attaching importance to the highest levels of quality and functionality of its products, SATEL has gained many satisfied customers not only in Poland but also in more than 50 markets worldwide.