

**Satel**<sup>®</sup>  
MADE TO PROTECT

**abox2**



**Wireless security  
and comfort**

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# abax2

The purpose of the **ABAX2** wireless system is to protect the premises – both the building and the area around it. This system can also be successfully used to implement building automation. Therefore, it provides a unique combination of security and comfort.

**ABAX2** is ideally suited as a wireless solution for alarm systems based on the **INTEGRA**, **INTEGRA Plus**, **VERSA** and **PERFECTA 64 M** control panels. When used with these devices it gets its full functionality and offers its best possibilities to the users. Moreover, **ABAX2** can work together with **any alarm control panel or automation controller**, and, in certain cases, it can also operate in **stand-alone mode**.

**ABAX2** uses **encrypted, two-way communication**. This grants the system the same level of reliability of data delivery available only to wired alarm systems before.

Advanced energy saving mechanism enable long operation time of battery-powered devices. Some batteries can last for even up to **8 years**.



A wide range of **ABAX2** system devices includes indoor and outdoor motion detectors and sirens, as well as glass-break, smoke, flood and temperature detectors, drivers for implementation of smart home functions, and remote control keyfobs. Wireless keypads are also available for control of alarm systems based on the **INTEGRA**, **INTEGRA Plus**, **VERSA** and **PERFECTA 64 M** control panels.



### ACU-220/ACU-280

Wireless system controller  
ABAX 2



### ACX-210

Miniature wireless expansion module for wired zones and outputs



### ACX-220

Wireless expansion module for wired zones and outputs



### ARU-200

Radio signals retransmitter ABAX 2



### ARF-200

Radio signal strength level tester



### APD-200/APD-200 Pet

Wireless PIR detector

### APMD-250

Wireless dual technology motion detector



### AOD-210

Wireless dual technology outdoor motion detector



### AOCD-260

Wireless dual technology outdoor curtain motion detector



### AXD-200

Wireless multipurpose detector



### AGD-200

Wireless glass-break detector



### ACD-220

Wireless curtain detector



### ASD-250

Wireless smoke detector

### ACMD-200

Wireless carbon monoxide detector



### ASD-200

Wireless smoke and heat detector



### ASP-200

Wireless outdoor acoustic-optical siren

### ASP-215

Wireless indoor acoustic and optical siren



### ADD-200

Wireless outdoor dusk and temperature detector



### APB-200

Wireless panic button



### ASW-200 E (EURO)

### ASW-200 F (SCHUKO)

Smart plug



### ASW-210

Wireless two-channel in-wall 230 V AC controller



### APT-200

Bidirectional remote control keyfob



### ART-200

Wireless radiator thermostat



### VERSA-KWRL2 / PRF-LCD-A2

Wireless LCD keypad for VERSA / PERFECTA 64 M alarm control panel



### INT-KWRL2

Wireless LCD keypad for INTEGRA, INTEGRA Plus alarm control panel



# Full and reliable protection

## A OUTDOOR PROTECTION

Your premises will be secured by the **AOD-210** outdoor dual motion detectors and **AOCD-260** outdoor curtain detectors. The devices designed for outdoor use are characterized by resistance to adverse weather conditions and ensure high effectiveness of intrusion detection, while also minimizing the risk of unwanted alarms.

## B PERIMETER PROTECTION

The **AOCD-260** outdoor curtain detectors can work along the property border, fence, windows and building entrances. You can install the **ACD-220** curtain detector on the inside of windows and doors, as well as in the passages inside the house. Windows and doors can also be protected by the universal **AXD-200** detector, working as a magnetic contact or shock detector. Windows, glass walls or doors can be monitored by the **AGD-200** glass break detectors.

## C INDOOR PROTECTION

The **APD-200** PIR detectors can be used to protect the premises. However, in some places (living room with fireplace, boiler room, vestibule, garage, etc.), where rapid temperature changes or air movement can occur, the **APMD-250** dual detectors, equipped with infrared and microwave sensors, will do better. Both devices come with the Pet function, so your dog will be able to move freely around the spaces where the alarm system is armed.

Doors inside the building can also be supervised by the **ACD-220** or **AOCD-260** curtain detectors and **AXD-200** detectors used as magnetic contacts.

Valuable items can be additionally secured using the **AXD-200** detectors working in the reorientation detection mode. If, for example, a picture is taken off the wall – the control panel will be informed about it.

## E HOME AUTOMATION

To implement the building automation functions, you can use the **ASW-200** smart plugs and **ASW-210** wireless controllers, as well as the **ACX-210** or **ACX-220** wired zone and output expanders. They make it possible to control various devices, e.g. selected lighting points, roller shutters/blinds or sprinklers.

The **ADD-200** and **AOD-210** detectors can also be used in building automation. Given that they have built-in dusk sensors, they can be used e.g. to control the operation of lighting.

The **ADD-200** temperature detector and the **AXD-200** detector, if used in the appropriate mode, can provide the alarm control panel with information that the set temperature thresholds are exceeded. The control panel can respond in a preprogrammed manner, adjusting the temperature in the rooms to the expectations of the household members. When the ABAX 2 system is working together with the INTEGRA, INTEGRA Plus or PERFECTA 64 M control panel, the temperature information sent by other devices of the wireless system (most of them have a built-in temperature sensor) can also be used to control the heating / air conditioning. Install the **ART-200** wireless thermostatic head on the radiator valves and control the heating conveniently via the mobile app or touchscreen keypads. The heads can also operate automatically as part of the automation function.



## D ADDITIONAL PROTECTION

The **ASD-200** smoke and heat detector and the **ASD-250** smoke detector (certified according to the EN 14604 standard for autonomous detectors) will react to the early signs of a fire. The house can also be equipped with a carbon monoxide detector **ACMD-200**, which will detect hazardous to health concentration of this gas and immediately trigger an alarm. To detect a water leak, you can use the **AXD-200** universal detector working in the flood detector mode (with the **FPX-1** probe connected). The **APB-200** panic button, when pressed, will instantaneously notify selected people or security agency about a threat, e.g. burglary.



## FACTS ABOUT WIRELESS SYSTEMS ABAX 2

1

ABAX 2 is characterised by its long range of radio communication, even up to 2000 m in open areas. This is a 4 times better range than the range achieved by its predecessor - ABAX.

2

ABAX 2 uses the so-called diversification of transmission channels. The frequency band supports four channels, in which the level of interference is constantly monitored. Communication is carried via the channel in which the level of interference is lowest at the moment - the selection is made automatically. The system offers highly efficient and reliable communication between devices. In comparison with other wireless systems, ABAX 2 is more resistant to jamming attempts.

3

The operating time of battery-powered devices has been extended in comparison with other systems. Some elements can work continuously for even up to 8 years. The system automatically informs you when it is time to replace the battery.

4

Data transmission between devices is much faster. Compared to the ABAX system, ABAX 2 operates much faster, with more devices being able to work within the same area.

5

ABAX 2 system devices can also be used in building automation.



# Your secure space

## New premises

You want to give more space to your passions and to do so you have renovated and furnished an unused loft? You extended your house by adding a garage? Or perhaps you have built a greenhouse to grow exotic plants? You are facing one more important task: you must secure your new premises by installing a new or extending the present alarm system. Installation of new devices (to be used as part of ABAX 2) will be extremely fast and easy. You will thus also avoid any unpleasant tasks connected with the possible renovation.



## Last minute alarm

The annual leave is fast approaching, and you would like to additionally secure your home? Or maybe you have no alarm system yet? You have no time to deal with it: you are busy working and preparing for summer holidays that are just around the corner. It is still not too late – you will be able to relax peacefully! If you decide on the ABAX 2 wireless solutions, your installer will place, configure and have them running in a very short time.

## Always secure

Are you planning or making changes to the arrangement of your home or garden? Remember that any disturbance of the existing architectural layout may affect the so far reliable operation of your security alarm system. Remember to consult your installer whenever you plan to make a change.



## Higher security level, lower bills

### Lighting

Does it happen sometimes that you leave the light in your room or bathroom on when going out? As a result, the lamps left on use energy unnecessarily. But you can help it. When the alarm system is armed, the **ASW-210** wireless controllers installed in boxes under the lighting switches can automatically cut off the power to the light fixtures. The **ADD-200** and **AOD-210** wireless detectors equipped with dusk sensors can take part in controlling the outdoor lighting, so that it will work only when it is dark outside. The detectors will inform the control panel that the dusk has fallen, so that the lamps can be turned on. On the other hand, the arrival of dawn will be a signal to turn the lighting off. The indicated lights can also be turned on / off remotely, for example, from the mobile application, the same that you use to control your alarm system.

### Heating / air conditioning

The **ADD-200** and **AXD-200** detectors (operating as a temperature detector) can report that the set temperature thresholds have been exceeded, which improves performance of heating and air conditioning. When they send information to the control panel, e.g. that it has become colder in a given room, the heating can be turned on. When the temperature reaches the required value, the control panel will automatically switch off the heating system. On the other hand, when the ABAX 2 system is working together with the INTEGRA, INTEGRA Plus or PERFECTA 64 M control panel, the temperature information sent by other devices of the wireless system can be used to control the heating / air conditioning as well.

**AXD-200** can also work as a magnetic contact designed to be mounted on windows. When the window is opened, the control panel can turn off the heating in the room in order to avoid wasting energy when the room is being aired.



### Radiators

Take full control of the temperature and save energy with smart heating. Most of the ABAX 2 devices are equipped with a built-in temperature sensor and can send readings to the control panel to display them on the keypad or mobile app screen. With the **ART-200** wireless thermostatic heads installed on your radiators, you will get full control over your heating. The heads can be controlled either locally using keypads (e.g. with a touchscreen), remotely using a mobile app, or manually.



### Electrical devices

Controlling devices connected to the power sockets (via the **ASW-200** smart plug) helps improve and increase energy efficiency in your home. The devices whose work is not needed at the moment, can be turned off automatically (e.g. when arming the alarm system) or remotely, which will reduce power consumption to the necessary minimum.

# System ABAX 2 is perfect, if...

## ...you are too busy or reluctant to renovate

ABAX 2 is a fast and non-invasive way  
to provide security.

## ...you change the interior design frequently

You can change the mounting location  
of wireless devices at any time, without  
affecting the efficiency of their operation.

## ...you value quality and pay attention to every detail

Devices working as part of the ABAX 2 system meet  
the requirements of security standards (EN 50131  
Grade 2). Additionally, all SATEL brand products  
undergo a multi-stage quality control. We also make  
sure that the manufacturing process of our devices  
is carried out with high standards of environmental  
protection.



## ... a need to expand your alarm systems appears

Your installation can be expanded whenever you want.  
With ABAX 2, you can easily add new devices to your  
system, extending the security zone or adding new  
functionalities.

## ... you expect solid and reliable solutions

Thanks to the built-in energy man-  
agement mechanism, the operation  
time of ABAX 2 devices is extremely  
long - with battery lasting for even  
up to 8 years\*.

\*battery lasting for even up to 8 years - with ECO mode enabled,  
depending on the product and its working conditions.

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.

Are you interested in the solutions presented in this leaflet?  
For more information, please visit

[www.satel.pl](http://www.satel.pl)