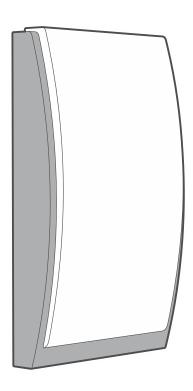


# Wireless outdoor siren

**ASP-200** 

Firmware version 1.00





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asp-200\_en 07/23



# **IMPORTANT**

The device should be installed by qualified personnel.

Prior to installation, please read carefully this manual.

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.

The rating plate of the device is located on the enclosure base.



**(**  The device meets the requirements of the applicable EU directives.



The device must not be disposed of with other municipal waste. It should be disposed of in accordance with the existing rules for environment protection (the device was placed on the market after 13 August 2005).

The device meets the technical regulations of the Eurasian Customs Union.

SATEL aims to continually improve the quality of its products, which may result in changes in their technical specifications and software. Current information about the changes being introduced is available on our website.

> Please visit us at: https://support.satel.pl

Hereby, SATEL sp. z o.o. declares that the radio equipment type ASP-200 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.satel.pl/ce

In the EU, this radio equipment is only permitted to operate in the 868 MHz frequency band.

The following symbols may be used in this manual:



- note,



caution.

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	Triggering the signaling Energy saving mode (ECO) Power supply

The ASP-200 siren provides information about alarm situations by means of optical and acoustic signaling. It is designed for operation within the ABAX 2 / ABAX two-way wireless system. This manual applies to the siren with firmware version 1.00 (or newer), which is supported by:

- ABAX 2: ACU-220 / ACU-280 controller,
- ABAX: ACU-120 / ACU-270 controller (firmware version 5.04 or newer).



Up to 8 ASP-200 / ASP-201 sirens can be registered in the ABAX 2 / ABAX controller.

The siren is not supported by the ACU-100 and ACU-250 controllers, ARU-200 and ARU-100 radio signal repeaters and INTEGRA 128-WRL control panel.

The siren occupies two positions on the list of wireless devices.

### 1 Features

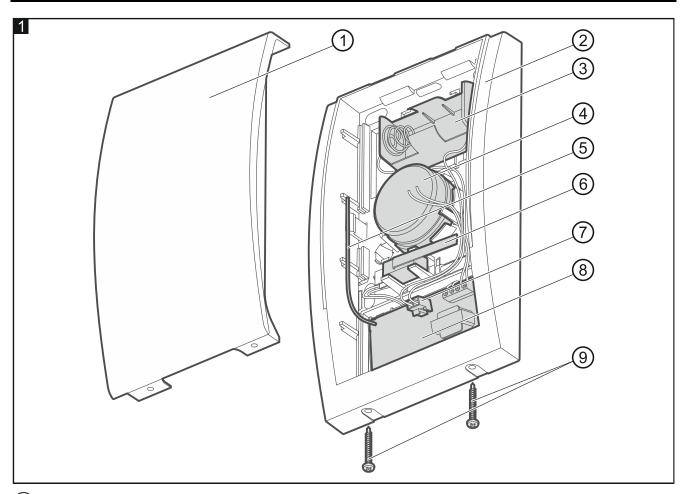
- Acoustic signaling by means of sounder.
- Optical signaling by means of LEDs.
- Encrypted two-way radio communication in the 868 MHz / 915 MHz frequency band (AES standard for the ABAX 2 system).
- Transmission channel diversity 4 channels for automatic selection of the one that will enable transmission without interference with other signals in the 868 MHz / 915 MHz frequency band (ABAX 2 system only).
- Remote update of siren firmware (ABAX 2 system only).
- Remote configuration.
- Power supply from 3.6 V lithium thionyl chloride battery.
- "ECO" option for longer battery life (ABAX 2 system only).
- Battery status control.
- Weatherproofed electronic circuit.
- Tamper protection against enclosure opening and removal from mounting surface.
- Built-in spirit level to facilitate installation.
- High-impact polycarbonate enclosure, featuring a very high mechanical strength.

## 2 Specifications

Operating frequency band	868.0 MHz ÷ 868.6 MHz / 915 MHz – 928 MHz
Radio communication range (in open area)	
ABAX 2	
ACU-220	up to 2000 m
ACU-280	up to 1600 m
ABAX	up to 500 m
Battery	ER34615 3.6 V
Battery life expectancy	up to 2.5 years
Standby current consumption	650 μΑ
Maximum current consumption	480 mA
Sound pressure level (at 1 m distance)	up to 105 dB
Complied with standards. EN 50130-4, EN 501	130-5, EN 50131-1, EN 50131-4, EN 50131-5-3
Security grade according to EN 50131-1	Grade 2

Environmental class according to EN50130-5	IIIA
Operating temperature range	
Maximum humidity	
Dimensions	
Weight	762 g

# 3 Description



- (1) enclosure cover.
- (2) enclosure base.
- (3) battery holder.
- (4) sounder.
- (5) antenna.
- (6) tamper switch.
- (7) battery connector.
- (8) electronics module.
- (9) cover locking screws.

### **Radio communication**

The siren connects to the controller at regular time intervals to provide information about its state (periodical communication). Additional communication takes place when:

• the siren informs the controller about tamper (the tamper information is sent immediately),

• the controller sends a command to the siren (starting / stopping the signaling; blocking / unblocking the tamper signaling).

#### ABAX 2

The siren connects to the controller at intervals defined by the "Communication period" parameter or by using the "ECO" option.

#### ARAX

The siren connects to the controller every 15 minutes.



If any value different from 0 is programmed for the "Filter" parameter for the ASP-200 siren, the lack of presence will be reported if no transmission from the siren is received within one hour.

## Triggering the signaling

The signaling is triggered:

- on receiving a radio command from the controller optical and acoustic signaling are controlled independently.
- on opening the tamper switch both optical and acoustic signaling is triggered.

The signaling parameters can be configured remotely (see the ABAX 2 / ABAX controller manual).

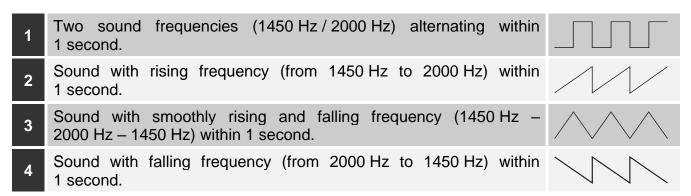


Table 1. Tone types for acoustic signaling.

### Blocking the tamper signaling

Opening the tamper switch will not trigger the alarm in the following cases:

- for 10 minutes after installing / connecting the battery,
- when the ABAX 2 / ABAX system is running in the test mode (the way of starting / ending the test mode is described in the ABAX 2 / ABAX controller manual),
- when the control panel is running in the service mode (the way of starting / ending the service mode is described in the INTEGRA / VERSA / PERFECTA 64 M control panel manual).

A few seconds delay may occur between starting the test mode / service mode and blocking the tamper signaling.

When the tamper signaling is blocked, the leftmost LED is flashing every 3 seconds.

## **Energy saving mode (ECO)**

If you want to prolong the battery life, you can enable in the siren the "ECO" option. When the "ECO" option is enabled, the periodical communication takes place every 3 minutes. Thus the battery life can be increased as much as fourfold. The option is only available in the ABAX 2

system. The siren with "ECO" option enabled meets requirements of the EN 50131-1 standard for Grade 2.

### **Power supply**

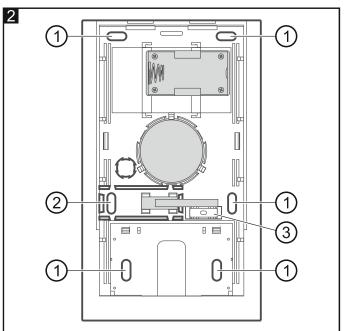
The siren is powered from a 3.6 V lithium thionyl chloride battery. It is a high-current battery, characterized by high capacity. The battery is offered by SATEL.

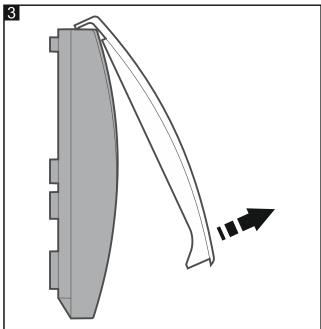
The siren provides information about battery condition during each transmission.



If you want to replace the low battery with a fresh one, follow the procedure described in the "Battery replacement" section (p. 6).

#### **Enclosure base**





Explanations for Fig. 2:

- 1 mounting hole.
- 2 mounting hole for tamper protection.
- 3 spirit level.

## 4 Installation and start-up



Never shorten or deform the antenna.

There is a danger of battery explosion when using a different battery than recommended by the manufacturer, or handling the battery improperly. Do not crush the battery, cut it or expose it to high temperatures (throw it into the fire, put it in the oven, etc.).

Do not expose the battery to very low pressure due to the risk of battery explosion or leakage of flammable liquid or gas.

Be particularly careful during installation and replacement of the battery. The manufacturer is not liable for the consequences of incorrect installation of the battery.

The siren must be installed on the wall, high above the floor, at a hard to access location, so as to minimize the risk of tampering. Make sure that some free space is left above the siren (at least 2.5 cm). Otherwise, it will be impossible to replace the cover.

- 1. Remove the cover locking screws.
- 2. Lift up the enclosure cover by approx. 60° and remove it (Fig. 3).
- 3. Install the battery. The leftmost LED will start flashing every second to indicate that the battery initialization procedure has begun. Given the specific character of the battery, it must be properly initialized to reach the required power supply parameters. When the battery is being initialized, you can add the siren to the wireless system but the siren will not be ready for normal work until the LED stops flashing.
- i

The battery is to be installed just before installing the siren.

4. Add the siren to the wireless system (see the ABAX 2 / ABAX controller manual). The sticker with serial number which shall be entered when registering the siren in the system can be found on the electronics module.



In the INTEGRA / VERSA alarm system, the siren is identified as ASP-100.

Simultaneous operation of the siren by the ABAX 2 and ABAX controller is not possible.

- 5. Replace the siren cover.
- 6. Place the siren in the location intended for its installation.
- 7. Check the level of signal received from the siren by the ABAX 2 / ABAX controller. If the signal level is lower than 40%, select another place for installation. Sometimes, it is sufficient to shift the device ten or twenty centimeters.
- i

The ARF-200 tester makes it possible to check the radio signal strength at the place of future installation without having to put the siren there.

- 8. Remove the siren cover.
- 9. Disconnect the battery from the electronics module.
- 10. Move aside the catches holding the electronics module and remove it.
- 11. Place the enclosure base on the wall and mark the location of mounting holes (Fig. 2). Remember to take into account the mounting hole for tamper protection.
- 12. Drill the holes for wall plugs (anchors).
- 13. Use wall plugs (anchors) and screws to secure the enclosure base to the mounting surface. Remember about the mounting hole for tamper protection. Select appropriate wall plugs based on the type of the mounting surface (different for concrete or brick wall, different for plaster wall, etc.).
- 14. Secure the electronics module in the enclosure base.
- 15. Connect the battery to the electronics module.
- 16. Replace the siren cover and fasten it with screws.
- 17. Configure the siren settings (e.g. the signaling parameters see the ABAX 2 / ABAX controller manual).

## 5 Battery replacement



The new battery must be installed as described below to run the battery initialization procedure. The required power supply parameters are only possible with the properly initialized battery.

The used batteries must not be discarded, but should be disposed of in accordance with the existing rules for environment protection.

- 1. Start the service mode in the control panel (if the ABAX 2 / ABAX controller is connected to a SATEL alarm control panel) or the test mode in the ABAX 2 / ABAX system.
- 2. After the leftmost LED on the siren starts flashing every 3 seconds, you can open the siren enclosure.
- 3. Remove the discharged battery.
- 4. Press and hold down the tamper switch.
- 5. Install the new battery.
- 6. When the leftmost LED on the siren starts flashing every second, release the tamper switch. The flashing LED indicates that the battery is being initialized. The siren will not be ready for normal work, until the LED stops flashing.