

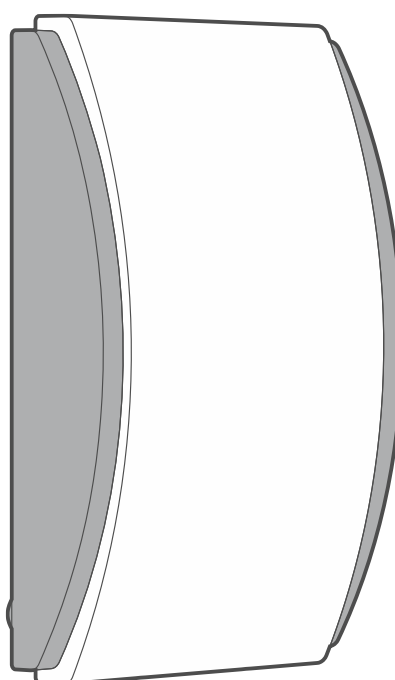
abox2

Wireless indoor siren

ASP-215

Firmware version 1.03

EN



CE

asp-215_en 05/25

Satel  [®]

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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 is designed for indoor installation.



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-215 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.

Signs in this manual



Caution – information on the safety of users, devices, etc.



Note – suggestion or additional information.

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The ASP-215 siren emits sound and light. It is designed for operation within the ABAX 2 two-way wireless system. It is supported by the ACU-220 / ACU-280 controller (firmware version 6.08 2025-05-19 or newer).



The siren is not supported by the ABAX system controllers, the ARU-200 and ARU-100 repeaters, nor the INTEGRA 128-WRL control panel.

1 Features

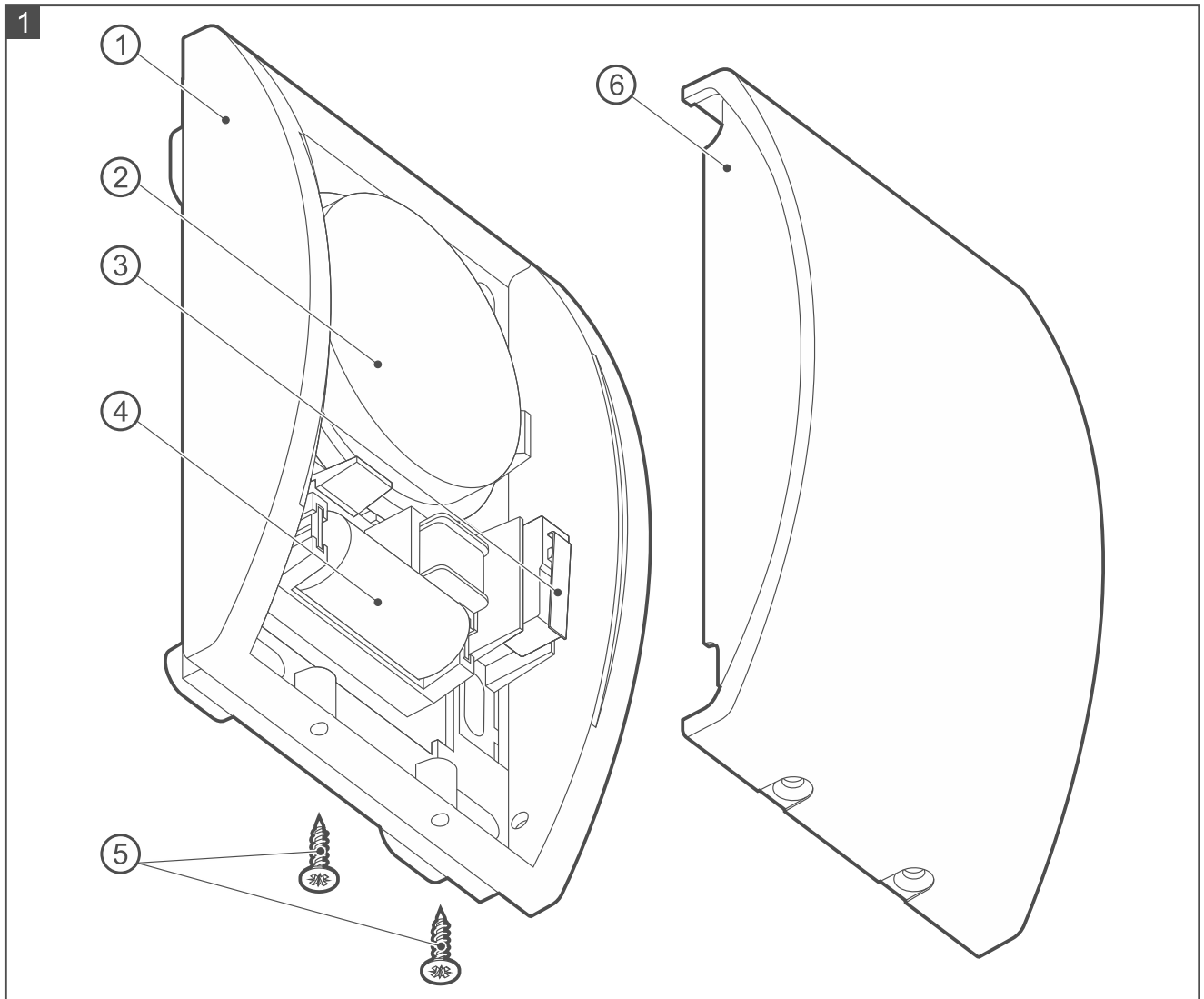
- Acoustic signaling by means of piezoelectric transducer.
- Optical signaling by means of LEDs.
- Encrypted two-way radio communication in the 868 MHz / 915 MHz frequency band (AES standard).
- Transmission channel diversity – 4 channels for automatic selection of the one that will enable transmission without interference with other signals in the 868 MHz / 915 MHz frequency band.
- Remote update of siren firmware.
- Remote configuration.
- Built-in temperature sensor (measurement range: -10°C...+55°C).
- Powered by CR123A 3 V battery.
- ECO option for longer battery life.
- Battery status control.
- Tamper protection against enclosure opening and removal from mounting surface.
- High mechanical strength of the enclosure.

2 Specifications

| | |
|---|---|
| Operating frequency band..... | 868.0 MHz ÷ 868.6 MHz / 915 MHz – 928 MHz |
| Radio communication range (in open area) | |
| ACU-220..... | up to 2000 m |
| ACU-280..... | up to 1600 m |
| Battery..... | CR123A 3 V |
| Battery life expectancy..... | up to 2 years |
| Temperature measurement range | -10°C...+55°C |
| Temperature measurement accuracy | ±1°C |
| Standby current consumption | 70 µA |
| Maximum current consumption | 40 mA |
| Sound pressure level (at 1 m distance)..... | up to 105 dB |
| Complied with standards. EN 50130-4, EN 50130-5, 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 | II |
| Operating temperature range..... | -10°C...+55°C |
| Maximum humidity | 93±3% |
| Dimensions | 87 x 133 x 37 mm |
| Weight..... | 180 g |

3 Description

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



- ① enclosure base.
- ② piezoelectric transducer.
- ③ tamper switch.
- ④ battery.
- ⑤ cover locking screws.
- ⑥ enclosure cover.

Radio communication

The siren connects to the controller / control panel every 3 minutes (periodical communication). Additional communication takes place when:

- the siren informs the controller about tamper (the tamper information is sent immediately),
- the controller sends commands to the siren (to start / stop signaling).

Triggering the signaling

The signaling is triggered:

- on receiving a radio command from the controller / control panel – you can configure two independently triggered signaling modes which will make it possible to distinguish between two alarms (e.g. burglary and fire). For more information about signaling parameters, please refer to the ABAX 2 controller manual.
- on opening the tamper switch – optical and acoustic signaling (tone type 1) is triggered. Duration of the signaling is 3 minutes.

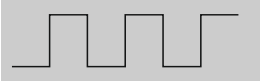


| | | |
|---|---|---|
| 1 | Two sound frequencies (1450 Hz / 2000 Hz) alternating within 1 second. |  |
| 2 | Sound with rising frequency (from 1450 Hz to 2000 Hz) within 1 second. |  |
| 3 | Sound with falling frequency (from 2000 Hz to 1450 Hz) within 1 second. |  |

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 40 seconds after the battery is installed,
- when the ABAX 2 system is running in the test mode (the way of starting / ending the test mode is described in the ABAX 2 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).

The command to block / unblock the tamper signaling (after starting / ending the test mode or the service mode) is sent during periodical communication. Thus the blocking / unblocking of tamper signaling may be delayed by up to 3 minutes.

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

Battery status control

When the battery voltage is below 2.75 V, information about low battery is sent during each transmission.

4 Installation tips

- When selecting a place of installation, consider the radio communication range. Thick walls, metal partitions, etc. reduce the range of the radio signal.
- The siren should be installed indoors, in spaces with normal air humidity.
- Do not install the siren outdoors.
- Install the siren on the wall, high above the floor, at a hard to access location, so as to minimize the risk of tampering.

- Leave a free space above the siren (at least 1 cm). Otherwise, it will be impossible to replace / remove the cover.

5 Installation



Never shorten or deform the antenna.

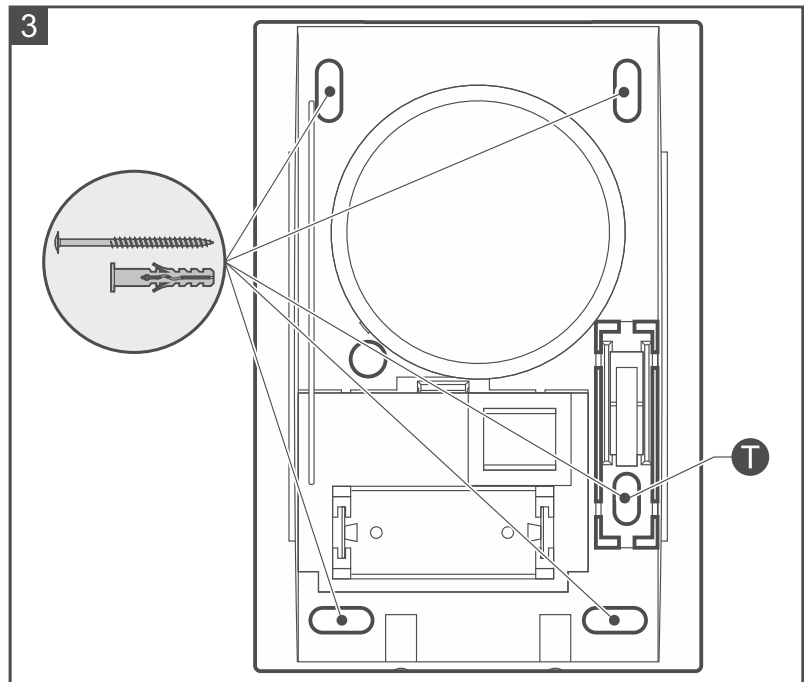
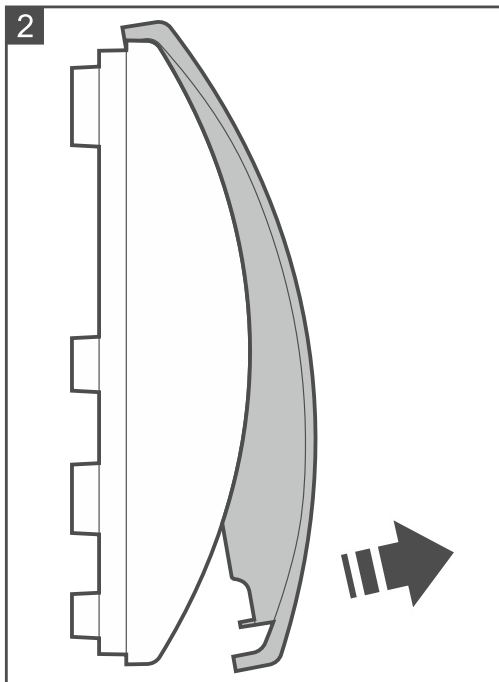
There is a danger of battery explosion when using a different battery than recommended by the manufacturer, or handling the battery improperly. Do not crush the battery, cut it or expose it to high temperatures (throw it into the fire, put it in the oven, etc.).

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

1. Remove the cover locking screws.
2. Lift up the enclosure cover and remove it (Fig. 2).



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



In the INTEGRA / VERSA alarm system, the siren is identified as ASP-205.

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 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.



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. Remove the battery.
10. Place the enclosure base on the wall and mark the location of mounting holes (Fig. 3). If the siren is to detect removal from the surface, mark the location of the hole in the tamper protection element (marked with the **T** symbol in the figure).



The siren must detect removal from the surface if it is to meet the requirements of Standard EN 50131 for Grade 2.

11. Drill the holes for wall plugs (anchors). The wall plugs provided with the siren are intended for concrete or brick. For other types of surface (drywall, styrofoam), use other appropriately selected wall plugs.
12. Secure the enclosure base to the wall with screws. If the siren is to detect removal from the surface, secure also the tamper protection element.
13. Install the battery.
14. Replace the siren cover and lock it with screws.
15. Configure the siren settings (e.g. the signaling parameters – see the ABAX 2 controller manual).