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ASP-105

WIRELESSLY TRIGGERED OUTDOOR SIREN

The ASP-105 outdoor siren is designed for operation as part of the ABAX two-way wireless system. It is available in three versions which vary in the color of their optical signal (red – ASP-105 R, blue – ASP-105 BL, and orange – ASP-105 O). This manual applies to the siren with electronics version 1.3D and firmware version 3.00 (or newer).

1. OPERATION

The siren requires +12 V DC ($\pm 15\%$) voltage supply. The 6 V 1.2 Ah battery is used as an emergency source of power. The siren informs the controller/control panel about external power loss and low battery (voltage drop across battery terminals below 5.7 V). The battery is tested only when the siren is powered from the battery, so its status must be checked when maintenance work is being performed.

Acoustic and optical signaling is triggered independently, upon receiving appropriate command by radio. The optical signaling lasts until cleared. Maximum duration of the acoustic signaling is remotely programmable within the range from 1 to 9 minutes. During programming, you can select one of the four tone types (see Table 1).

1	Two sound frequencies (1450 Hz/2000 Hz) alternating during 1 second period	
2	Sound with a smoothly rising and falling frequency (1450 Hz – 2000 Hz – 1450 Hz) during 1 second period	
3	Sound with rising frequency (from 1450 Hz to 2000 Hz) during 1 second period	
4	Sound with falling frequency (from 1450 Hz to 2000 Hz) during 1 second period	

Table 1. Available tone types.

Opening the enclosure or tearing it off from the mounting surface will trigger the tamper alarm. It will sound for the maximum period preprogrammed for acoustic signaling. Information about the tamper alarm will be sent to the controller/control panel.

Note: Signaling the tamper alarm will be blocked:

- on entering the test mode,
- on entering the service mode, in case of interaction with an INTEGRA or VERSA control panel,
- for 40 seconds after the siren power-up.

The command to block/unblock the tamper alarm signaling as a result of entering/exiting the service mode or the test mode will be sent during the polling period.

Fig. 1. View of the siren.

- ① enclosure cover. To take off the cover, remove the fixing screws (7), and then open up the cover to a position of approx. 60°.
- ② enclosure base.
- ③ 6 V 1,2 Ah battery.
- ④ piezoelectric transducer (acoustic signaling).
- ⑤ tamper switch (NC). It opens when the cover is removed or the enclosure is torn off from the wall.
- ⑥ weatherproof electronics board.
- ⑦ screws locking the enclosure cover.

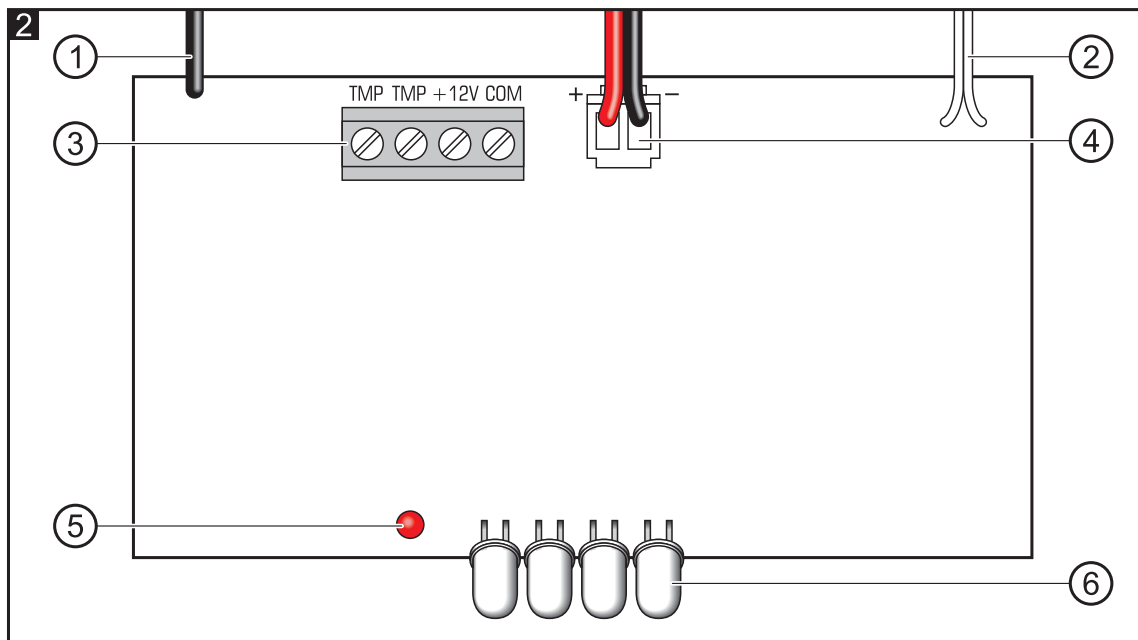
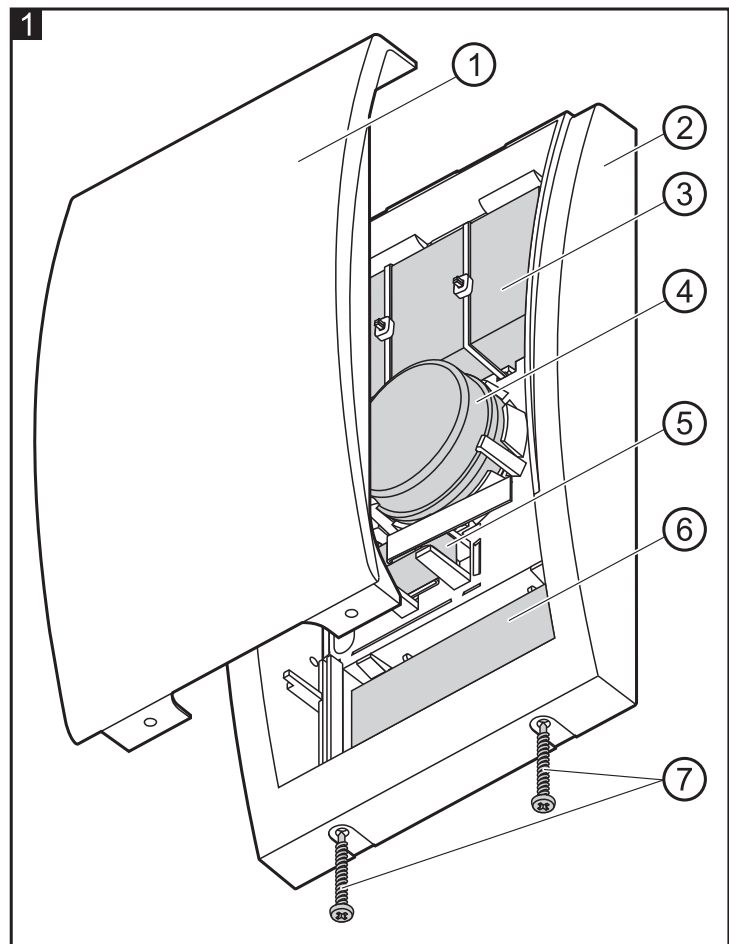


Fig. 2. View of the siren electronics board.

- ① antenna.
- ② wires to piezoelectric transducer.
- ③ terminals. Tamper switch is connected to TMP terminals. +12 V and COM terminals are used for connection of +12 V DC ($\pm 15\%$) supply.
- ④ battery connection leads (red +, black -).

- ⑤ red LED. When in the test mode, it indicates the siren polling (short flash).
- ⑥ optical signaling LEDs (two LEDs are installed in the ASP-105 BL siren).

2. INSTALLATION

The ASP-105 outdoor siren should be mounted on the wall, at a high and hard-to-access place, so as to minimize the risk of tamper. Maintain an adequate distance (minimum 2.5 cm) between the top edge of the siren enclosure and the ceiling or another element situated above the siren. Replacement of the cover may turn out to be impossible due to the lack of space.

1. Remove the enclosure cover.
2. Connect the battery to corresponding leads.
3. Add the siren to the wireless system (see the ACU-100 controller manual, INTEGRA 128-WRL or VERSA control panel installer manual) and close the cover.
4. Select the place where the siren is to be installed, and mount the device there temporarily.
5. Check the level of signal received from the siren. If necessary, select another place for installation, to ensure adequate communication quality.
6. Having found the place which ensures the optimum signal level, remove the cover and disconnect the battery.
7. Mark on the mounting surface the location of the holes for enclosure base fixing screws and tamper switch, as well as the opening through which power wires will be run.
8. Drill the corresponding holes in the mounting surface.
9. Pull the 12 V DC power wires through the opening in the base.
10. Using wall plugs (screw anchors) and screws, fasten the enclosure base and tamper switch to the mounting surface.
11. Connect the backup battery.
12. Connect the supply wires to the electronics board terminals. The wires should not be run in the immediate vicinity of the siren antenna, because it may interfere with the radio communication.
13. Close the cover and secure it with screws.
14. Turn on 12 V DC power.
15. Configure the siren operating parameters (e.g. select one of the four tone types and determine maximum duration of sound signaling). Detailed information relating to the configuration can be found in the ACU-100 controller manual and the INTEGRA and VERSA control panel programming manuals.

3. SPECIFICATIONS

Operating frequency band	868.0MHz ÷ 868.6 MHz
Radio communication range (in open area).....	up to 500 m
Supply voltage	12 V DC ±15%
Backup lead-acid battery	6 V/1,2 Ah
Standby current consumption (with fully charged battery)	30 mA
Maximum current consumption (with fully charged battery):	
optical signaling	80 mA
acoustic signaling	225 mA

optical and acoustic signaling	265 mA
Sound pressure level (at 1 m distance).....	up to 120 dB
Security grade according to EN 50131-4	Grade 2
Environmental class according to EN50130-5	IV
Operating temperature range.....	-25°C ...+70°C
Maximum humidity	93±3%
Complied with standards. EN 50130-4, EN 50130-5, EN 50131-1, EN 50131-4, EN 50131-5-3	
Enclosure dimensions.....	148 x 254 x 64 mm
Weight.....	1.01 kg
Name of certification body.....	Telefication

Notes:

- *The battery charging current depends on the battery degree of discharge.*
- *The built-in battery charging circuit is designed for recharging a partially discharged battery, not for charging a fully discharged one.*

Hereby, SATEL sp. z o.o., declares that this siren is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at www.satel.eu/ce

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