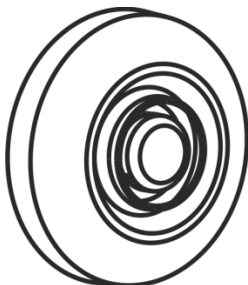# TEKO

Astra-2331
Wireless Siren

User Guide

Manufacturer:
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Made in Russia

CE

Rev. 2331-v1_4_instr_en

1 FUNCTION

The siren is designed for warning people about intrusion / fire alarm events by means of light and sound upon a command received from Security Hub controller.

The siren provides measurement of the value of the residual battery capacity. When the value of 30, 20 and 10% is reached, it is transmitted to the Security Hub controller. Transmitted data are displayed on the Security Hub mobile or web app. The periodicity of the transmission - 1 time in 6 hours.

2 TECHNICAL SPECIFICATION

Sound pressure level at a distance of 1 m, dB, not less 85
Sound frequency, Hz, ...from 1500 to 2500
Wireless coverage range, m.........................100
Operating frequency, MHz:
- lit. «1»...433,42
- lit. «3»...434,42
Supply voltage, V:
- from battery ....from 2,2 to 3,0
- from power source 12 V ....from 10 to 15
Average battery lifetime, years........................ 2
Overall dimensions, mm:
- diameter.. 90
- height... 29
Operating conditions
Temperature range, °C ....from - 30 to + 55
Relative air humidity, %.......... up to 98 at +25°C
<div align="right">Without moisture condensation</div>

3 DELIVERY SET

The siren package includes mounting parts (plugs - 2 pcs, screws. -2 pcs.), battery (CR123A - 1 pc. - installed)

4 NOTIFICATIONS

Light notifications

Notification	Red indication
Entry/Exit delay	**1 blink per 2 sec.** during delay time
Intrusion / Fire alarm	Blinking **once per 1 sec.** for **4 minutes**, then blinking **once every 10 sec.** for another **20 minutes** or until the Alarm / Fire status is cleared.
Arming	**1-fold** turn on for **0.5 sec.**
Disarming	**2-fold** turn on for **0.5 sec.**

Sound notifications

Notification	Sound
Intrusion alarm	Continuously **on for 4 minutes**
Fire alarm	Turns on **for 1 sec.** with a period of 2 seconds for **4 minutes**
Arming	**1-fold** turn on for **0.5 sec.**
Disarming	**2-fold** turn on for **0.5 sec.**

Service notifications (red led)

Notification	Indication
Stand-by mode (after power up)	**1-fold** turn on for **1 sec.**
Power failure (BA)	**3-fold** blinking with a period of **25 sec.**
Switching to 12V	**1-fold** turn on for **1 sec.**
Network search	Blinking **5 times per 1 sec.**
No network	**2-fold** blinking with a period of **25 sec.**

Note.

1 When the "Power failure" notification appears, it is necessary to replace battery within one week.

2 Indication of notifications "Power failure", "No network", "Network search" is turned off 60 minutes after the siren power up.

5 ASSIGNING TO THE SYSTEM

1) Remove the cover by turning it counter-clockwise with respect to the base.
2) Start **interactive mode** from the Security Hub mobile or desktop app. Interactive mode starts for **60 sec.**
3) Insert battery into the siren, observing the polarity.
If 4 seconds after the assigning procedure start the LED indication shows the "No network" indication, it means that the unit has been already assigned to another Security Hub controller. In this case, it is necessary to reset the unit (see Section 6) and repeat the assigning procedure (steps 2) - 3)).
Before re-installing the battery, wait at least 20 seconds.

Make sure assigning is successful with Security Hub mobile or desktop app. If assigning is unsuc-cessful, repeat the procedure. Before re-installing the battery, wait at least 20 seconds.

Note – *Setting of operating frequency is automatic.*

ATTENTION!

1 It is forbidden to simultaneously start assigning procedure on several radio devices.

6 DE-ASSIGNING AND RESET

• The siren is de-assigning using Security Hub mobile or desktop app.
• **Reset procedure**:
1) Remove the cover by turning it counter-clockwise with respect to the base.

2) Close **Del** contacts on the PCB**.** LED indica-tor switches on.
3) After the LED indicator switches off, open **Del** contacts.
4) The siren will form "No Network" LED notifi-cation and become ready for assigning in an-other controller.
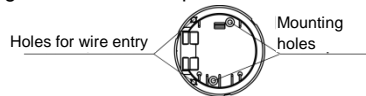
7 INSTALLATION PLACE

• The siren can be installed both on the wall and on the ceiling.
• Prevent from direct sunlight exposure.
• Siren is not recommended to install:
- on massive metal structures or closer than 1m from them;
- closer than 1 m from power lines and metal water or gas pipes, sources of radio interfer-ence;
- inside metal structures.

8 INSTALLATION PROCEDURE

1) Remove the cover by turning it counterclock-wise with respect to the base. Remove PCB.
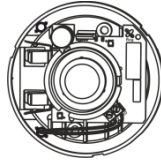**2)** Make markup at the selected installation surface using the base as a template.

Holes for wire entry — Mounting holes

3) Conduct wires of external power supply (not required when supplied from battery) through the holes for wire entry.
4) Fix the base on the bearing surface
5) Install the siren's PCB.

ATTENTION!
When connecting an ex-ternal 12 V power supply, the location of the wires should be as shown on the figure!

6) Insert battery, observing polarity.

7) Close the siren cover by placing it on the base and turning it clockwise until it stops.
Note – *When external power source 12V is con-nected, the siren automatically switches to supply from it, when disconnected - it switches to battery supply.*

ATTENTION! Due to the peculiarity of signal transmission over the radio channel there may be a short delay before siren is switched on by the command from Security Hub controller. The delay time depends on the workload of the radio channel and the noise situation at the facility.

9 WARRANTY

The operation warranty period is 5 years from the date of operation start-up but no longer than 5 years 6 months from the date of manufactur-ing subject to the requirements of the User guide.