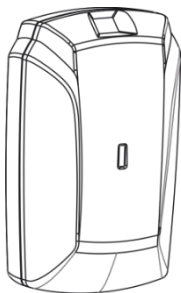




Astra-8231

Wireless Relay Unit, 433 MHz



User Guide

**Manufacturer:
ZAO NTC TEKO**

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Made in Russia

Rev. 8231-v1_1_instr_en

1 FUNCTION

The wireless relay unit is intended for:
- control relay output by a command, received from **Security Hub** controller.

- controlling external executive devices;
- monitoring of external modules connected with their "dry contact" outputs to Zone-GND input of the relay unit. Wire length no more than 3 m.

The relay unit provides measurement and transmission via radio:

- the residual capacity of the battery when the capacity value is 30, 20 and 10%.
- ambient temperature

2 SPECIFICATIONS

Operating frequency range, MHz433

Wireless coverage range, m,100

Supply voltage, V:

- from batteryfrom 2,2 to 3,0

- from external power supplyfrom 10 to 15

Battery average lifetime, years 1,5

Overall dimensions, mm.....101×63×32

Operation conditions

Temperature range, °Cfrom - 30 to + 55

Relative air humidity, %..... up to 98 at +25°C
without moisture condensation

3 DELIVERY SET

The delivery set includes mounting parts (dowels - 2 pcs., screws - 2 pcs.), battery (CR123A, 3V) - 1 pc., user guide - 1 copy.

4 INDICATION

	Red LED
Power up	Off
Boot time	1x flash for 1 sec after power up
Normal power (battery)	Off
Power failure (battery discharge)	3-fold flashing with a period of 25 sec at a voltage below 2.5 V
Switching to external power supply 12 V	1x flash for 1sec
Alarm (Zone input)	1x flash for 0,2 sec
Network search	Flashing 5 times per 1 sec
No network	2-fold flashing with the period of 25 sec

Notes

1 LED notification turns off **60 minutes** after the power is turned on.

2 When notice of "Power failure" appears, it is necessary to replace the battery within one week!

5 ADDING TO THE SYSTEM

- 1) Remove the cover of module
- 2) Start adding on the mobile or desktop app Security Hub. Adding starts for **45-60 sec.**
- 3) Install the battery into the module.

If 4 seconds after the adding procedure start the LED indication shows the "No network", it means that the unit has been already added in another radio network. In this case, it is necessary to reset the unit (see p. 6) and repeat the registration procedure (steps 2) - 3)). Before re-installing the battery, wait at least 20 sec.

- 4) Make sure registration is successful with Security Hub mobile or web app. If registration is unsuccessful, repeat the procedure.

6 RESET PROCEDURE

- 1) Remove module's cover.
- 2) Close the DEL contacts for 5 sec. - the red indicator will turn on.
- 3) After turning off the red indicator, open the DEL contacts.
- 4) The module generates a notification "No network" and becomes available for adding to the system.

7 INSTALLATION PLACE

The relay unit is **not recommended to install**:

- on massive metal structures or closer than 1m from them;
- closer than 1m from power lines and metal water or gas pipes, sources of radio interference;
- inside metal structures.

8 INSTALLATION PROCEDURE

- 1) Remove the module's cover.
- 2) Remove PCB.
- 3) Squeeze out plugs of the selected mounting holes and the holes for wires entry.

ATTENTION! For safe squeeze of the plugs, fix the base on a hard surface.

- 4) Make markup at the selected installation surface using the base as a template.
- 5) Conduct wires of external power supply (not required when supplied from battery), ZONE wires (if necessary) and relay output wires through the holes for wire entry. Secure the base on the bearing surface. Install the PCB.
- 6) Connect wires to the terminal block



- 7) Close the unit's cover.

Note - When the external power supply is connected, the relay module automatically switches to work from it, when disconnected, it switches to work from the battery.

9 WARRANTY

Warranty period of operation - 5 years from the date of commissioning, but not more than 5 years 6 months from the date of manufacture and subject to the requirements of the current user guide.