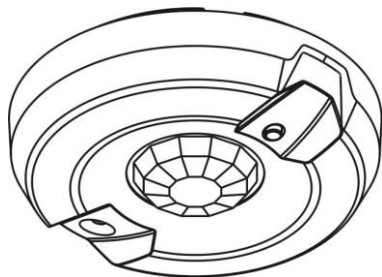




Astra-8 ver.RF
Wireless Dual-Channel Detector
PIR + Acoustic
(Ceiling mount)



User guide

Manufacturer:
ZAO NTC TEKO
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 420108 Kazan, Russia
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Made in Russia

Ver. 8-rkv1_6_instr_en

1 FUNCTION

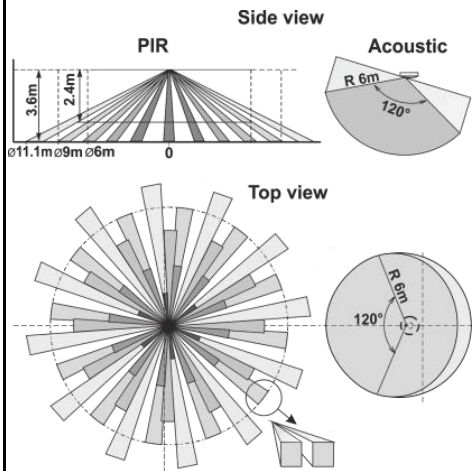
The detector is intended for detection of an intrusion into a secure space of an enclosed area, glass breaking and transmission of alarm signal to the **Security Hub** via radio.

The detector provides measurement and transmission via radio:

- a) the residual capacity of the battery
- b) ambient temperature

The transmission interval is 12 sec (with **Rtst** plug jumpered) or 60 sec (**Rtst** plug opened).

2 DETECTION ZONE



3 DELIVERY SET

Detector delivery set includes: dowel – 2 pcs., screw – 2 pcs., jumpers – 5 pcs. (installed), battery (3.6 V, Lithium, size AA) - 1 pc., user guide – 1 copy.

4 SPECIFICATIONS

Range of detectable moving speed, m/s from 0.3 to 3.0
 Wireless coverage range, m 100
 Operating frequency range, MHz 433
 Power supply voltage, V from 2.8 to 3.6
 Dimensions, mm 108x31

Operating Conditions

Temperature range, °C from - 20 to + 50
 Relative air humidity, % up to 98 at + 25 °C
 Without moisture condensation

5 MODES OF OPERATION

Setting operation mode of the detector, as well as LED indication of notifications are possible within no more than 10 minutes after battery insertion!

Mode	Plug	Position
Mode 2* (compatible with Security Hub)	Rmod	
Mode 1		
Test signal transmission period**	12 sec	Rtst
	60 sec	
Frequency 1 (433,42 MHz) (Security Hub compatible)*	Lit	
Frequency 3 (434,42 MHz)		
High sensitivity of PIR-channel	PIR	
Normal sensitivity of PIR-channel		
High sensitivity of acoustic channel	GB	
Normal sensitivity of acoustic channel		

* Factory setting.
 ** For Mode 2 only

6 ADDING PROCEDURE

- 1) When using the detector with factory settings (Security Hub compatible), start adding from **step 3**, if it is necessary to change the operation mode of the detector, remove the detector cover (see p. 8).
- 2) For operating with **Security Hub** set **Frequency 1** and **Mode 2**.
- 3) Start registration on the Security Hub mobile app. Registration starts for **45-60 sec.**
- 4) Insert battery into the detector.

In case of unsuccessful adding, remove the battery and repeat procedure. Before installing it on again, wait at least 20 sec. or briefly set the battery in reverse polarity.

- 5) Make sure that the adding is successful on the Security Hub mobile or desktop app.

7 INSTALLATION PLACE

- 1) Recommended installation height is at least 2.4-3.6 m at a distance not more than 6m from the most distant spot of protected glass.
- 2) The detector should be installed on a ceiling (or other surface) **strictly horizontally**.
- 3) The detector cannot be used in premises with high level of acoustic interference.

To eliminate false alarms

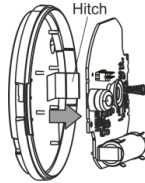
- 1) It is recommended to close doors and vents, switch off fans, loud-speakers and other possible sources of acoustic interference in the room during protection period.
- 2) The detector's location should provide direct visibility of all secured glass parts; masking the detector with decorative curtains is not allowed, as sensitivity may be lost.

8 INSTALLATION PROCEDURE

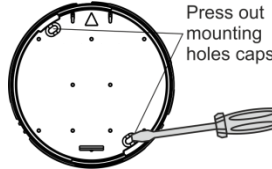
- 1) Remove the cover by turning it counter clockwise



- 2) Remove PCB



- 3) Mount the base on a ceiling



- 4) Install PCB
- 5) Close the cover by turning it clockwise.
- 6) Perform testing (see section 9).

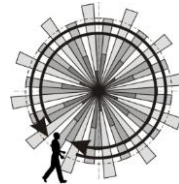
9 TEST

AC channel:

- 1) Install jumper on the **GB** plug.
- 2) Power up the detector. The LED starts flashing for **60 sec.** maximum.
- 3) Close detector's cover.
- 4) Simulate glass breakage using a glass break simulator (not included in the delivery set).
- 5) At the detection moment the LED lights up for 2 sec. and "Alarm" notification is issued and transmitted to Security Hub.

PIR channel:

- 1) Install jumper on the **PIR** plug.
- 2) Power up the detector. The LED starts flashing for **60 sec.** maximum.
- 3) Close detector's cover.
- 4) To detect the sensitive zones carry out **TEST-pass** in the secured zone with the speed of **0,3** and **3 m/sec.**



Stop upon detection (LED lights up for **1 sec.**), mark position, then make 2 steps back and continue moving forward.

10 WARRANTY

Operational warranty period: 5 years from the date of commissioning, but no more than 5 years 6 months from the date of manufacture and subject to current user guide requirements.