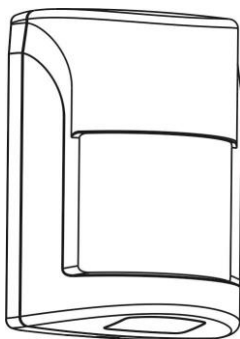




## “Astra-5121”

Wireless motion detector  
(pet immune)



### User Guide

**Manufacturer:**  
**ZAO NTC TEKO**  
420108, Russia, Kazan,  
Gafuri str., 71  
Tel.:+7(843) 528-03-69  
[export@teko.biz](mailto:export@teko.biz)  
[www.teko.biz](http://www.teko.biz)

Made in Russia



Rev. 5121-v4\_3\_instr\_en

## 1 FUNCTION

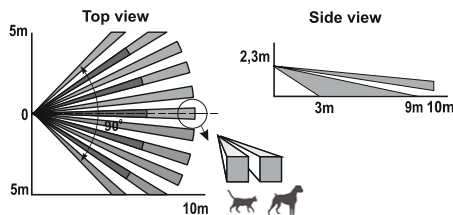
The detector is intended for detection of an intrusion into a secure space of an enclosed area, forming an alarm notification and transmitting alarm signal to the **Security Hub** via radio.

The detector is resistant to movements of pets up to 20 kg weight.

The detector provides measurement and transmission via radio (12 sec. period) in **Mode2**:

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

## 2 DETECTION ZONE



## 3 SPECIFICATION

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 2.2 to 3.0  
 Overall dimensions, mm ..... 70 × 51 × 42

### Operating Conditions

Temperature range, °C ..... from - 10 to + 50  
 Relative air humidity, % ..... up to 98 at + 40 °C  
 without moisture condensation

## 4 DELIVERY SET

Detector delivery set includes: dowel – 2 pcs., screw – 2 pcs., battery (CR123A, 3 V) - 1 pc. (installed), jumpers – 2 pcs. (installed), user guide – 1 copy, labels – 2 pcs.

## 5 MODES OF OPERATION

*Setting an operating mode of the detector and indication of notifications is possible within 10 minutes after battery insertion!*

Mode	Plug	Jumper
<b>Mode 2*</b> (compatible with Security Hub)	Rmod	
<b>Mode 1</b>		
<b>Frequency 1</b> (433,42 MHz)* <b>Frequency 3</b> (434,42 MHz)	Lit	

\* factory setting

## 6 ADDING TO THE SYSTEM

- 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.
- For operating with Security Hub set the **Frequency 1** and operating **Mode 2**.
- Start registration from the mobile app Security Hub or desktop app. Registration starts for **45-60 sec.**
- Activate the battery by **pulling out the protective strip** or re-install the battery.  
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.
- Make sure that the **adding is successful** on the Security Hub mobile or desktop app.

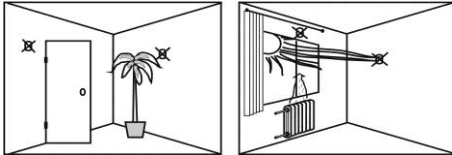
## 7 INSTALLATION PLACE

- 1) Recommended installation height is 2.25-2.35 m.
- 2) Install the detector on bearing walls and carriers.
- 3) The detector must be installed **strictly vertical**, without tilting forward.

### To eliminate false alarms

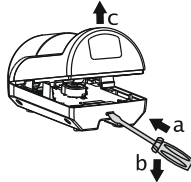
- 1) It is recommended to close all doors, air-vents, switch off fans, air-conditioners and other sources of intense air flows in the room during protection period.
- 2) Any furniture or interior items within 3 m of the detector which could make possible for an animal to climb above the floor level must be removed.

### Not recommended installation places

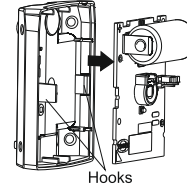


## 8 INSTALLATION PROCEDURE

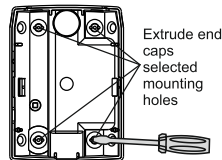
- 1) Remove cover



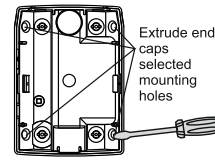
- 2) Remove PCB



- 3a) Installation on the wall



- 3b) Installation in the corner



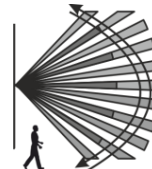
**ATTENTION!** Fix the detector base on a hard surface to safely break out the caps. Orient the detector base strictly according to the drawing!

- 4) Seal all holes in the base with sealing material.
- 5) Place the PCB.
- 6) Perform TEST-pass (see p.9).

## 9 TEST-PASS

- 1) Power on the detector. LED will flash 1 time in 2 sec. for not more than 60 sec.
- 2) Close the cover of the detector.
- 3) After the detector enters the standby mode, perform a **TEST-pass** of the protected area at a speed of 0.3 m / sec to determine the sensitivity zone.

At the moment of detection (the LED will light up for 1 sec), stop, mark this position, then go back two steps and



continue moving. Repeat the **TEST-pass** in the opposite direction.

- 4) Check the functionality of the detector:

- ARM the facility in the Security Hub App,
- Make a walk through the detection zone,
- Check the **Alarm messages** in the Security Hub App and on the LED2 of the security hub controller.

## 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 manufacturing subject to the requirements of current User guide.