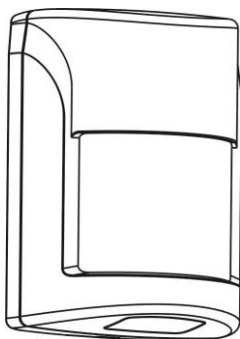




**Astra-5121**

**Wireless motion detector  
(Pet immune)**



**User Guide**

**Manufacturer:**

**ZAO NTC TEKO**

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**Made in Russia**



Rev. 5121-v4\_5\_instr\_en

## 1 FUNCTION

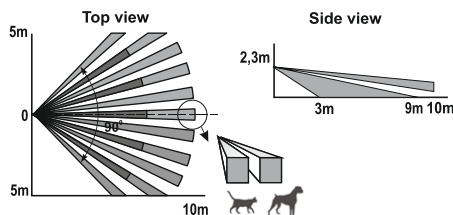
The detector is designed to detect intrusion into the protected area, generate an alarm notification and transmit via radio to the receiver Astra-812 Pro, Astra-WE 433 or Security hub.

The detector is insensitive to pets of up to 20 kg weight.

The detector provides measurement and transmission via radio (at intervals of 12 sec.) of the following parameters:

- a) residual capacity of the battery with display in the event log when the values of 30, 20, 10% are reached;
- b) ambient temperature.

## 2 DETECTION ZONE



## 3 SPECIFICATIONS

Range of detectable moving speed, m/sec ..... from 0.3 to 3.0  
 Wireless coverage range (line-of-sight), m ..... 300  
 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.

## 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)* (compatible with Security Hub)	Lit	
<b>Frequency 3</b> (434,42 MHz)		

\* factory setting

## 6 REGISTRATION

### **ATTENTION!**

When registering, the operating mode of the radio and the operating frequency of the detector and the wireless network must match.

- 1) Create a wireless network in accordance with **the Manual** for configuring the receiver.
- 2) Open detector's cover.
- 3) Use the jumpers to set the required radio operation mode and the operating frequency of the detector in accordance with the wireless network parameters.
- 4) Start registration procedure on the receiver according to the **Manual**. Registration starts for **45-60 sec.**
- 5) Activate the battery by **pulling out the protective strip** or re-install the battery.

In case of **unsuccessful registration**, remove the battery and repeat procedure. Before installing it on

again, wait at least 20 sec. or briefly set the battery in reverse polarity.

6) Make sure that the **registration is successful** according to the **Manual**.

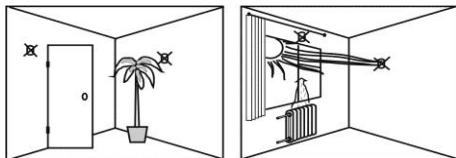
## 7 INSTALLATION PLACE

- 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

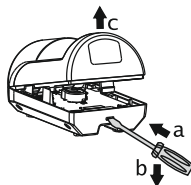
- 1) It is recommended to close all doors, air-vents, switch off fans, air-conditioners and other sources of intense air flows in the room during protection period.
- 2) Any furniture or interior items within 3 m of the detector which could make possible for an animal to climb above the floor level must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

### Not recommended installation places

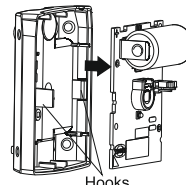


## 8 INSTALLATION PROCEDURE

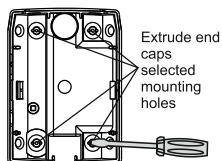
1) Remove cover



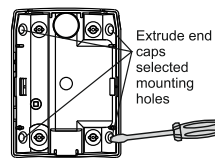
2) Remove PCB



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!

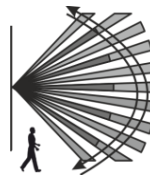
- 4) Seal all holes in the base with sealing material.
- 5) Place the PCB.
- 6) Perform **TEST-pass** (see p.9).

## 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 operability of the detector:

- perform **TEST-pass**,

- **control**:

- on the led of the detector - issuance of the indication "Alarm" (1-time flash);
- receiving the notification "Alarm" on the receiver.

## 10 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.