

Astra-421 ver. RF Wireless Optic-Electronic Smoke Detector



User Guide

Manufacturer: ZAO NTC TEKO

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Made in Russia



Rev. 421rk2-v2_5_instr_en

1 FUNCTION

The detector is designed to detect fires accompanied by the appearance of smoke, generate a fire notice and transmit notifications via a radio channel to the Astra-812 Pro control panel directly or through the Astra-WE 433 radio extender also to the Security Hub controller.

The detector supports two-way radio exchange mode.

2 SPECIFICATIONS

Detector's sensitivity, dB/mfrom 0.05 to 0.2 Response time, sec., max
(line-of-sight), m300 Operating frequency range, MHz433 Power supply voltage, Vfrom 2.1 to 3.0
Overall dimensions, mm
without moisture conden- sation

3 DELIVERY SET

Delivery set includes: battery, 3.0 V, (CR123A) - 2 pcs.(installed), protective cover (red) – 1 pcs., user guide – 1 pcs.

4 INDICATION

Notification	Indication
Notification	
Boot time	1x red flash then 1x white flash
Norm	1x red flash in 60 sec. period
Fire alarm	1time/2 sec red flash until the fire factor is eliminated. 2x flashing in a period of 25 sec. when eliminating the fire factor before receiving a command from the controller
Test	1time/2 sec red flash during 30 sec. when receiving the test command from the Astra- 942 laser remote control
Failure	3x red flash in 25 sec. period
Power failure	3x red flash in 25 sec. period
Tampering / Restore tam- pering	1x red flash
Search con- nection	5x white flash in 1 sec.
No connection	2x white flash in 25 sec. period
Reset	2x white flash in 1-2 sec.

Notes

1 When the message "Power failure" appears, the battery must be replaced within two months. 2 Indication of notifications "Power failure", "No network", "Search for network" goes off 60 minutes after turning on the power supply. The indication turns on again for 60 minutes after receiving the "Test" command from the Astra-942 laser tester.

5 REGISTRATION

- 1) Turn detector counterclockwise.
- 2) Start registration on the Astra-812 Pro, Security Hub mobile or desktop app. Registration starts for 45-60 sec.
- **3)** Turn on the detector by pulling out the battery insulator or by installing the battery.
- 4) Detectors led start flashing: 5x white flash in 1 sec.

Make sure that the assigning is successful on the Security Hub mobile or desktop app. If assigning is unsuccessful, repeat the procedure.

6 RESET PROCEDURE

- Removing the detector from the wireless network is carried out via the PKM Astra Pro software or via the menu of the Astra-812 Pro control panel or via Security Hub mobile App.
- To reset the detector:
- 1) Turn detector counterclockwise.
- 2) Close the **DEL** contacts and hold for 5 sec. the red led will turn on.
- 3) After turning off the red led, open the $\ensuremath{\text{DEL}}$ contacts within 5 sec.
- **4)** The detector generates a notification "No connection" and becomes available for registering to the system.

7 INSTALLATION PLACE

The distance from the ceiling level to the sensitive element at the place of its installation must be at least 25 mm and not more than 600 mm.

Do not install a detector:

- in front of the air conditioner (in the zone of convection currents);
- in front of a window (a temperature drop in winter with the formation of condensate or dust in the summer can cause a false alarm of the detector).
- Do not mask the detector; smoke particles must freely enter the smoke chamber.

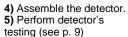
ATTENTION! Remove the protective cover immediately before commissioning the detector.

8 INSTALLATION PROCEDURE

1) Remove the electronic unit from the base



3) Install batteries, if they were removed (first the backup "Secondary", then the main "Primary").



2) Mount the base







9 TESTING

- To activate the **«Test»** mode:
- push the red button of the laser tool;
- irradiate the LED for 1 sec. LED should turn on in red for 2 sec.



2) Normal operation of the detector: led on the detector will start flashing with a period of 2 sec for 30 sec ("Test fire" notification). In the event log of Astra-812 Pro, PKM Astra Pro, the entry "Test fire" will be made.

Note - WE 433 leds don't display test fire.

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.