



Astra-MA

Addressable mark



User guide

Manufacturer:
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Made in Russia

Rev. MA-v1_2_instr_en

1 FUNCTION

- Addressable Mark Astra-MA (further **Astra-MA**) is designed to receive notifications **via two programmable** alarm loops (AL) from non-addressable devices with a “dry contact” output and to transmit notifications via Signaling Line Circuit (SLC) through Astra-A RPA (RPA) into Astra-812 Pro or Astra-8945 Pro (version 5_0 and above) Control Panels.
- **Astra-MA does not provide** connection of detectors with loop power supply.
- **Astra-MA** provides programming of AL from the PKM Astra Pro.
- **Astra-MA** provides monitoring of the operability of a fire-type AL for open and short circuit.
- Astra-MA is powered from the RPA through the SLC power circuit.

02 SPECIFICATIONS

Power supply voltage, V 7,0 - 27,6
Consumption, mA not more 0,5
Maximum length SLC interface, m 1000

AL Parameters (terminals +Z1-, +Z2-):

Short circuit current, mA, not more 1
AL wire resistance, Ohm, not more 50
AL integration time, ms 70/300/500
AL resistance of different types and states, kOhm see manual
Dimensions, mm 87x54x28

Operating Conditions

Temperature range, °C from - 30 to + 55
Relative air humidity, % up to 93 at +40°C
without moisture condensation

3 DELIVERY SET

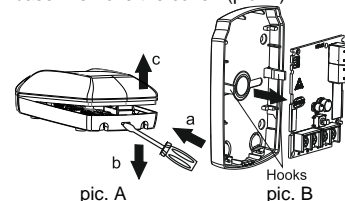
Delivery set includes: fastening parts (dowels - 2, screws - 2), resistor 3.9 kOhm – 2.

4 INDICATION

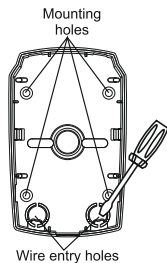
STATUS	LED	Control Panel
Fire / alarm/ AL fault	-	+
Opening	-	+
Power failure (below 7.5V)	3 times flashes with a period of 25 sec.	+
Testing (via ASTRA-942)*	1 time flash for 2 sec.	+
Registration (via ASTRA- 942)*	1 time flash for 2 sec.	-
“*” - service indication used during commissioning and Astra-MA maintenance “+” - a notification is issued “-” - a notification is not issued		

5 INSTALLATION PROCEDURE

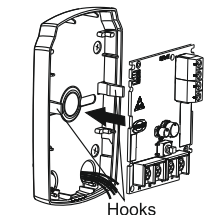
- 1) Push the cover latch out of the groove in the base. Remove the cover. (pic. A)



- 2) Bend back the hooks on the base. Remove the PCB. (pic. B)
- 3) Make a markup at the selected installation location according to the attached base. (pic. C)



pic. C

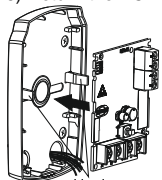


pic. D

4) Connect the SLC power cables and the SLC data cables coming from Astra-A RPA and AL through the holes for cable entering in the device base. Recommended cable type – KPSNG (A) -FRLS 2 × 2 × 0.5. Maximum length of the cable connected to AL – 150m.

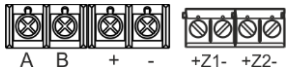
5) Fix the Astra-MA base on the selected surface.

6) Return the PCB to its place. (pic. e.)



pic. e.

7) Connect the cables to the terminals according to the table:



Terminal	Function
A, B	Input for connecting the Data line SLC
«+», «-»	Input for connecting the power line SLC
Z1, Z2	Input for AL

8) Close the Astra-MA cover.

9) Perform an Astra-MA registration in RPA (see section 6).

10) Perform an Astra-MA setup according to the Recommendations built into the PKM Astra Pro or Pconf-Pro program. Astra-MA setting from the Astra-812 Pro" is not available.

11) Launch a test (section 8).

6 ADDING TO THE SYSTEM

Registration of Astra-MA in the RPA is carried out using the "Astra-942" Laser Pointer (ASTRA-942) and supplied separately.

1) Connect the Extender RPA to the Control Panel via RS-485 interface.

2) Register the RPA in the Control Panel according to the user guide of Astra-812 Pro or the manual built-in the Configuration module of the PKM Astra Pro or Pconf-Pro PC. (See www.teko.biz)

3) Remove the Astra-MA cover by pushing the cover latch out of the groove in the base.

4) Check the connection of cables to the terminals on the Astra-MA PCB ("+", "-", A and B) from the RPA.

5) Start Registration mode of devices in the Extender in the Control Panel in accordance with the Instructions. The mode takes 60 sec. to register one device.

6) Start the registration mode on Astra-MA using Astra-942. Illuminate the Astra-MA indicator from the ASTRA-942 button for at least 1 sec. The Astra-MA indicator should turn on for 2 sec.

WARNING!

Running registration for several detectors at one and the same time is forbidden.

7) Registration running check:

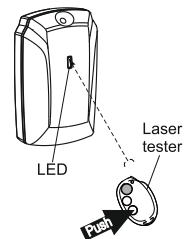
- In case of successful registration, you will see "Astra-MA" in the setting module program in Astra Pro PKM or Pconf-Pro, or "Astra-MA is registered" on the screen of the Astra-812 Pro.
- In case of unsuccessful registration you will need to repeat actions from 5) to 7).

7 REMOVING FROM THE SYSTEM

Removing Astra-MA from the RPA's memory can be held via installation PKM program module Astra Pro, Pconf-Pro or Astra-812 Pro menu.

8 TESTING

Run a testing mode with using the Astra-942:



- Press the top Astra-942 button
- Irradiate the Astra-MA indicator for a second. Astra-MA indicator will switch on for 10 sec.

A test notification will be recorded in the event log of Control Panel, Astra Pro PKM or Pconf-Pro.

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 User guide.