

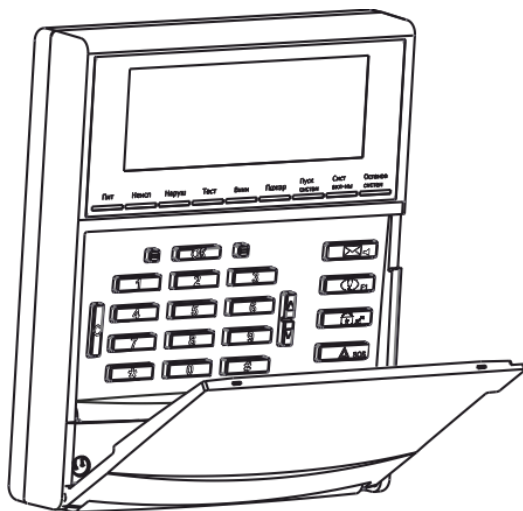


ZAO "NTC"TEKO"

KEYPAD

Astra-814 Pro

Passport



This passport is intended to study the principles and rules for using the Astra-814 Pro Keypad as part of the Astra system based on the Astra-812 Pro or Astra-8945 Pro control panel.

The manufacturer reserves the right to make changes to the design, software, circuit solutions and product packaging that do not worsen its technical characteristics, do not violate mandatory regulatory requirements, without prior notice to the consumer.

1 FUNCTION

1.1 Astra-814 Pro keypad is designed to work as part of the Astra systems under the control of Astra-812 Pro or Astra-8945 Pro control panel.

1.2 Keypad provides the following functions:

- entering PIN codes to control and configuring the system;
- display of notifications received from the control panel on the display, Buzzer and LEDs of generalized signals;
- control the system using iButton keys;
- control of relay output Relay1 by command from the control panel.

1.3 Connection and communication between the keypad and the control panel takes place via a two-wire RS-485 interface. The maximum number of connected (registered) keypads is 8 pcs.

1.4 Keypad is powered from external redundant DC sources with a rated voltage of 12 V or 24 V.

1.5 Keypad has two independent power inputs (main and backup), switching between them occurs automatically when the power supply voltage drops below the permissible level.

1.6 Keypad has an input for monitoring the generalized signal "Failure" of power sources (terminals Zone1, GND).

NOTE:

- The Zone1 input is not intended for connecting detectors and their power supply via a loop.
- Keypad inputs, outputs and LEDs are configured from the PKM Astra Pro configuration module (distributed from the site www.teko.biz).
- Keypad is not intended for system configuration.

2 SPECIFICATION

Power supply voltage, V	from 10 to 27
Average current* consumption at voltage 12 (24 V), mA, not more:	
- standby mode (with unused relays and inputs Zone 1, Zone 2**)	60 (70)
- alarm mode (switched on relay and buzzer)	80 (90)
Maximum current consumption at voltage 12 (24) V, mA	110 (120)
Parameters AL1, AL2 (terminals Zone1, GND, Zone2):	
Voltage at the AL terminals in standby mode, V	from 10 to 27
Short circuit current in AL, mA, not more than	20
Loop resistance *, kOhm, in the state:	
-“NORM”	from 3 to 5
-”ALARM”	from 0 to 3 or more 5
Integration time of AL1, msec	300 ± 30
AL2 integration time, msec	500 ± 50
Resistance of wires connected to the loop, Ohm, not more	220
Leakage resistance between AL wires or each wire and "Ground", kOhm,	20
Relay1 output parameters:	
Maximum load voltage AC, V	250
Maximum DC load voltage, V	30
Maximum load current AC, DC, A	5
Out parameters: Maximum load current, mA	100
Maximum load voltage, V	27
RS-485 interface line length, m, max	1000
Overall dimensions, mm, not more	174×150×43
Weight, kg, not more	0.42

Terms of Use:

Temperature range, °C	from -10 to +55
Relative humidity, %	up to 93 at 40 °C without moisture condensation

* Turning off the display backlight reduces the average current consumption in all modes by 10 mA.

** Using one input increases the average current consumption by 10 mA.

*** Permissible spread of resistance values is not more than 10%.

3 DELIVERY SET

Keypad.....	1 pc.
Screw.....	4 pc.
Dowel.....	4 pc.
Resistor C1-4-0.25 W 3.9 kOhm ± 5%.....	2 pc.
Passport.....	1 copy.

4 COMPLIANCE

Keypad design provides IP30 protection rating.

5 DISPOSAL

Keypad does not in itself constitute a hazard; after the end of its service life, its disposal is carried out without taking special measures to protect the environment.

6 WARRANTY

6.1 The quality management system is certified for compliance ISO 9001-2015

6.2 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 the passport.

6.3 The average service life of the Keypad is 10 years.

6.4 The guarantee does not take effect in the following cases:

- mechanical damage to the Keypad;
- repair of the Keypad by a person other than the manufacturer.

6.5 Warranty applies only to the Keypad. All other manufacturer's equipment used together with the Keypad is subject to their own warranties.

The manufacturer is not responsible for any damage to health, property or other incidental or special loss, direct or consequential damages based on the statement of the user that the Keypad did not fulfill its functions, or as a result of misuse, failure or temporary inoperability of the Keypad.

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