

KODOS ES-502 Access controllers

Manual

Basic Item Information and Technical Data

KODOS ES-502 Access controller (hereinafter referred to as controller) is used to control the System users' access to the guarded territory through the controlled turnstile. The controller is used as a component of the KODOS access control systems and is purposed to control the turnstiles by RostEvroStroy (T2, T4, T6, T83, and T283 types) and PERCo (TTR-04B/L/P and RTD-01B/L types).

The functions executed in the course of operation are as follows:

- a) storing and processing information acquired from the readers;
- b) issuing control signals to the gate executive devices;
- c) receiving/transmitting data through the KODOS SK-E or KODOS SK-232 network controller communication line.

Table 1 – Performance Data

Power supply voltage, V	9.5 ... 15.0
Consumption current (apart from external loads), mA , maximum	400
Nonvolatile memory, Kb	64
Number of control turnstile	1
Number of control outputs (turnstile hermetic contact)	2
Length of loop under control (turnstile reed switch), m , maximum	50
Loop resistance (turnstile hermetic contact) when closed, Ohm , maximum	150
Characteristics of the reader communication line: number of the readers connected,	2
length of the reader connection cable, m , maximum	50
Characteristics of the network controller communication line: communication line length, m , maximum	2000
input resistance of the receiver, kOhm	120
sign-inverse signals amplitude, V	24
Operating environment: ambient temperature, °C	+5...+35
relative humidity at 25 °C, %, maximum	80
Overall dimensions, mm	198x98x32
Weight, g , maximum	265

Standard Equipment

1	KODOS ES-502 access controller	- 1 pc
2	Self-tapping Screw 3.5x25	- 4 pcs
3	Plastic Nailing Plug	- 4 pcs
4	Manual	- 1 copy
5	Package	- 1 pc

Notes on Operation

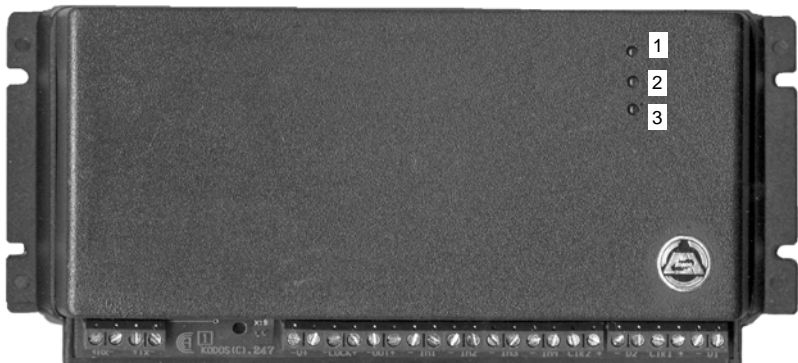
1 Assembly, installation, and maintenance of the controller should be carried out in accordance with the document "KODOS ES series controller-based access control system. Installation Guide".

2 The controller's hardware address is set by switching DIP-switches 1-6 located on the back side of the controller body to the relevant position.

3 The LEDs (Figure 1) are used to indicate the access controller power supply (Power) and data exchange with the network controller (Reception, Transmission).

4 The warranty is void if the seal is broken.

5 Controller terminals marking and assigning are produced in the tables 2 and 3.



1 – LED Power; 2 – LED Transmission; 3 – LED Reception

Figure 1 – Access controller (front)

Table 2 – Marking and assignment KODOS ES-502 controller's terminals

Controller's terminals	Assignment
«+Rx»	«+» network controller reception line
«-Rx»	«-» network controller reception line
«+Tx»	«+» network controller transmission line
«-Tx»	«-» network controller transmission line
«-V»	«-» controller, turnstile power supply
«+V»	«+» controller, turnstile power supply
«-LOCK»	ENTRANCE turnstile control
«-OUT»	EXIT turnstile control
«-»	Turnstile hermetic contact
«In1»	Turnstile hermetic contact
«Clk2»	signal of the CLK reader "Entrance"
«+»	«+» terminal of the reader power supply "Entrance"
«-»	«-» terminal of the reader power supply "Entrance"
«D2»	signal of the DATA reader "Entrance"
«Clk1»	signal of the CLK reader "Exit"
«+»	«+» terminal of the reader power supply "Exit"
«-»	«-» terminal of the reader power supply "Exit"
«D1»	signal of the DATA reader "Exit"

Table 3 – Assignment and Readers' terminals marking and their correspondence to the controller's terminals

Controller's terminal marking	Assignment	«KODOS» reader terminal marking		
		RD-1100 (1030, 1040, 1040M) terminals position designation)	RD-OFFICE	Other «KODOS» reader types
«Clk1», «Clk2»	control signal	4	«CLK»	«C» or «CLK»
«+»	«+» terminal of the reader power supply	9	«+12V»	«+12V» or «+12B»
«-»	«-» terminal of the reader power supply	6	«-12V»	«-12V» or «-12B»
«D1», «D2»	data signal	1	«SD»	«D» or «DATA»