

KODOS AD-01 adapter

Manual

Basic Item Information and Technical Data

KODOS AD-01 adapter (hereinafter referred to as adapter) is designed to convert signals from the RS-232 protocol into the RS-485 protocol and back.

The adapter is used:

a) as a component of KODOS A-20 Central Panel-based fire and burglar alarm system to connect the KODOS A-20 Central Panel (Central Panels) either to a personal computer (PC) or to the KODOS SK-E network controller;

b) as a component of the access control system based on RC series controllers to connect the KODOS RC-102 and KODOS RC-103 controllers to a PC.

Table 1 – Performance Data

Power supply voltage, <i>V</i>	9.5 ... 15.0
Consumption current, <i>A</i> , maximum	200
Communication line length, <i>m</i> , maximum: for RS-232	10
for RS-485 (two-wire line)	1200
Number of receivers per a RS485 port, maximum	32
Operating environment: ambient temperature, °C	+5 .. +55
relative humidity at 25 °C, %, maximum	80
Overall dimensions, <i>mm</i>	136x100x27
Weight, <i>g</i> , maximum	120

Standard Equipment

- | | | |
|---|---------------------------|----------|
| 1 | KODOS AD-01 adapter | – 1 pc |
| 2 | MJ-0-6 jumper | – 2 pc |
| 3 | PC connection cable | – 1 pc |
| 4 | Manual | – 1 copy |
| 5 | Package | – 1 pc |
| 6 | Self-tapping Screw 3.5x25 | – 4 pcs |
| 7 | Plastic Nailing Plug | – 4 pcs |

Notes on Operation

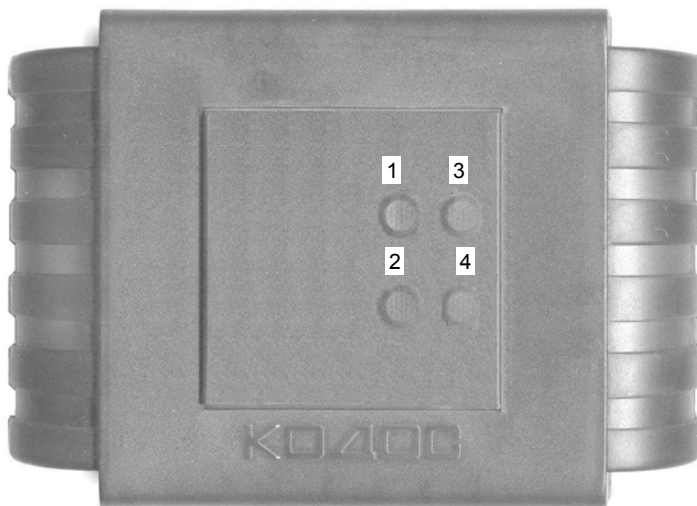
1 Assembly, installation, and maintenance of the adapter shall be performed in accordance with the document "KODOS A-20 Central Panel-Based Fire and Burglar Alarm System. Installation Guide", and when used as a component of the ACS – in accordance with the document "Access Control System Based on the RC Series Controllers. Installation Guide".

2 To switch between the operation modes, and between reception/transmission modes of the adapter, set the jumpers of the switches, which can be accessed when the device cover is open to the relevant position.

3 LEDs (Figure 1) are used to indicate the adapter power supply (Power), data exchange through PC communication line (RxD_PC, TxD_PC), and the process of a signal conversion from the RS-232 protocol into the RS-485 protocol (Control).

4 The warranty is void if the seal is broken.

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



1 – LED TxD_PC; 2 – LED Power; 3 – LED RxD_PC; 4 – LED Control

Figure 1 – Adapter (front)

Table 2 – Marking and assignment KODOS AD-01 adapter's terminals

Marking	Assignment
+12V	plus terminal of 12V power supply
-12V	minus terminal of 12V power supply
GND	COM-port common cable
RTS_PC	external control input
TxD_PC	RS-232 input of the adapter reception device
RxD_PC	RS-232 output of the adapter transmission device
A	A output of the RS-485 reception and transmission device
B	B output of the RS-485 reception and transmission device

Table 3 – Correspondence of the adapter terminals to the PC COM-port contacts numbers

Adaptor terminal	Connector DB-9	Connector DB-25*
GND	5	7
RTS_PC	7	4
RxD_PC	2	3
TxD_PC	3	2

* - for reference